



National Center for Science and  
Engineering Statistics

# Higher Education Research and Development: Fiscal Year 2021

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## General Notes

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This report provides data from the FY 2021 Higher Education Research and Development (HERD) Survey. The survey is an annual census of institutions that expended at least \$150,000 in separately accounted-for research and development (R&D) in the fiscal year.

The tables present data on R&D expenditures at higher education institutions across all academic disciplines and include R&D expenditures by institution, R&D field, geographic area, source of funds, type of R&D (basic research, applied research, and experimental development), cost categories (salaries, software, equipment, and indirect costs), and trends over time.

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TABLE 1

**Higher education R&D expenditures, by source of funds: FYs 1953–2021**

(Dollars in millions)

Fiscal year	All R&D expenditures <sup>a</sup>	Source of funds				
		Federal government	State and local government	Institution funds	Business	All other sources <sup>b</sup>
1953 <sup>c</sup>	255	138	37	35	19	26
1954	290	160	42	38	22	28
1955 <sup>c</sup>	312	169	47	41	25	30
1956 <sup>c</sup>	372	213	53	43	29	34
1957 <sup>c</sup>	410	229	60	49	34	38
1958	456	254	68	53	39	42
1959 <sup>c</sup>	526	306	76	58	39	47
1960 <sup>c</sup>	646	405	85	64	40	52
1961 <sup>c</sup>	763	500	95	70	40	58
1962 <sup>c</sup>	904	613	106	79	40	66
1963 <sup>c</sup>	1,081	760	118	89	41	73
1964	1,275	917	132	103	40	83
1965 <sup>c</sup>	1,474	1,073	143	124	41	93
1966	1,715	1,261	156	148	42	108
1967 <sup>c</sup>	1,921	1,409	164	181	48	119
1968	2,149	1,572	172	218	55	132
1969 <sup>c</sup>	2,225	1,600	197	223	60	145
1970	2,335	1,647	219	243	61	165
1971 <sup>c</sup>	2,500	1,724	255	274	70	177
1972	2,630	1,795	270	305	74	187
1973	2,884	1,985	295	318	84	202
1974	3,023	2,032	307	370	96	218
1975	3,409	2,288	332	417	113	259
1976	3,729	2,512	364	446	123	285
1977	4,067	2,726	374	514	139	314
1978 <sup>d</sup>	4,625	3,059	414	623	170	359
1979	5,366	3,598	472	735	193	368
1980	6,063	4,098	491	835	236	403
1981	6,847	4,571	546	1,004	291	435
1982	7,324	4,768	616	1,111	337	491
1983	7,882	4,989	626	1,302	389	576
1984	8,620	5,431	690	1,411	475	613
1985	9,687	6,064	752	1,617	560	694
1986	10,928	6,712	915	1,869	700	732
1987	12,153	7,343	1,023	2,168	790	828
1988	13,463	8,193	1,106	2,356	872	935
1989	14,979	8,993	1,224	2,698	994	1,071
1990	16,290	9,640	1,324	3,006	1,127	1,191
1991	17,589	10,238	1,474	3,367	1,204	1,307
1992	18,821	11,095	1,491	3,548	1,279	1,409
1993	19,954	11,960	1,559	3,589	1,360	1,486
1994	21,035	12,654	1,555	3,828	1,423	1,575
1995	22,179	13,337	1,690	4,048	1,489	1,614
1996	23,055	13,847	1,812	4,172	1,606	1,619
1997	24,380	14,321	1,910	4,699	1,737	1,712
1998	25,867	15,159	1,945	5,004	1,889	1,871
1999	27,544	16,112	2,022	5,382	2,033	1,995

TABLE 1

**Higher education R&D expenditures, by source of funds: FYs 1953–2021**

(Dollars in millions)

Fiscal year	All R&D expenditures <sup>a</sup>	Source of funds				
		Federal government	State and local government	Institution funds	Business	All other sources <sup>b</sup>
2000	30,084	17,548	2,200	5,925	2,156	2,255
2001	32,801	19,227	2,320	6,614	2,218	2,422
2002	36,383	21,856	2,504	7,133	2,191	2,698
2003 <sup>e</sup>	41,470	25,307	2,645	7,663	2,161	2,856
2004 <sup>e</sup>	44,839	28,304	2,879	7,752	2,129	2,851
2005 <sup>e</sup>	47,535	29,957	2,940	8,265	2,291	3,092
2006 <sup>e</sup>	49,645	30,909	2,966	9,062	2,401	3,198
2007 <sup>e</sup>	51,590	31,241	3,151	9,718	2,675	3,521
2008 <sup>e</sup>	54,114	32,101	3,438	10,378	2,869	3,916
2009 <sup>e</sup>	57,288	33,443	3,647	11,148	3,197	4,294
2010	61,287	37,478	3,887	11,943	3,202	4,777
2011	65,274	40,768	3,851	12,580	3,183	4,892
2012	65,873	40,217	3,744	13,625	3,279	5,007
2013	67,145	39,510	3,706	14,974	3,515	5,440
2014	67,351	38,032	3,916	15,781	3,734	5,889
2015	68,694	37,911	3,864	16,638	4,009	6,273
2016	71,911	38,858	4,053	17,944	4,219	6,836
2017	75,291	40,320	4,187	18,887	4,439	7,459
2018	79,174	41,935	4,326	20,221	4,725	7,967
2019	83,643	44,540	4,520	21,115	5,064	8,404
2020	86,445	46,196	4,596	22,023	5,187	8,443
2021	89,872	49,228	4,745	22,482	5,119	8,298

S&amp;E = science and engineering.

<sup>a</sup> Totals for FYs 1953–2002 represent R&D expenditures in S&E fields only. From FY 2003 through FY 2009, some institution totals for all R&D expenditures may be lower-bound estimates because the National Center for Science and Engineering Statistics did not attempt to estimate for nonresponse on the non-S&E R&D expenditures item prior to FY 2010.

<sup>b</sup> Prior to FY 2010, R&D expenditures from nonprofit organizations were collected under all other sources. Beginning in FY 2010, these data were collected separately, and FY 2021 data included \$5,758 million in R&D expenditures from nonprofit sources.

<sup>c</sup> Data are estimated based on data collected in surrounding years. Between FY 1953 and FY 1971, surveys were conducted only in years FY 1954, FY 1958, FY 1964, FY 1966, FY 1968, and FY 1970.

<sup>d</sup> FY 1978 data are estimated based on data collected from doctorate-granting institutions only.

<sup>e</sup> Source of fund detail data do not sum to total for FYs 2003–09 because data by source were collected for S&E fields only. Total non-S&E expenditures were collected in a separate item.

**Note(s):**

Because of rounding, detail may not add to total.

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 2

## Higher education R&amp;D expenditures, by source of funds and survey form: FYs 2010–21

(Dollars in thousands)

Survey form and fiscal year	All R&D expenditures	Source of funds								
		Federal government	State and local government	Institution funds				Business	Nonprofit organizations	All other sources
				Total	Institutionally financed research	Cost sharing	Unrecovered indirect costs			
All institutions										
2010	61,286,610	37,477,582	3,887,106	11,942,532	6,198,189	1,083,275	4,661,068	3,201,904	3,729,655	1,047,831
2011	65,274,393	40,768,251	3,851,323	12,580,320	6,816,187	1,153,646	4,610,487	3,182,671	3,853,950	1,037,878
2012	65,872,505	40,216,862	3,743,834	13,625,176	7,723,845	1,289,013	4,612,318	3,279,179	4,037,021	970,433
2013	67,144,666	39,510,280	3,705,597	14,973,909	8,906,778	1,360,580	4,706,551	3,514,750	3,902,646	1,537,484
2014	67,351,146	38,031,837	3,915,607	15,781,083	9,636,685	1,380,434	4,763,964	3,733,688	3,977,753	1,911,178
2015	68,694,164	37,910,989	3,864,085	16,637,890	10,445,258	1,352,515	4,840,117	4,008,532	4,235,520	2,037,148
2016	71,910,615	38,857,606	4,053,355	17,944,172	11,447,240	1,459,394	5,037,538	4,219,432	4,631,968	2,204,082
2017	75,290,993	40,319,790	4,186,563	18,886,771	12,131,776	1,561,958	5,193,037	4,438,651	5,156,710	2,302,508
2018	79,173,538	41,934,743	4,326,360	20,220,955	13,196,346	1,519,509	5,505,100	4,724,969	5,455,722	2,510,789
2019	83,642,841	44,539,670	4,520,294	21,115,387	14,011,371	1,566,041	5,537,975	5,063,790	5,702,033	2,701,667
2020	86,444,902	46,196,287	4,596,328	22,022,573	14,646,299	1,635,305	5,740,969	5,187,168	5,754,385	2,688,161
2021	89,872,007	49,228,127	4,745,398	22,481,841	14,973,889	1,627,858	5,880,094	5,118,899	5,604,133	2,693,609
Short form institutions <sup>a</sup>										
2012	143,498	74,639	10,263	37,778	32,515	2,474	2,789	5,207	14,611	1,000
2013	131,528	64,349	9,175	37,529	32,116	2,360	3,053	4,221	14,000	2,254
2014	152,056	70,719	12,584	45,707	40,561	1,720	3,426	5,852	13,826	3,368
2015	144,282	64,187	9,378	45,816	41,178	1,228	3,410	5,695	15,036	4,170
2016	142,766	68,991	9,893	39,967	34,391	2,182	3,394	5,696	14,099	4,120
2017	143,880	71,040	11,413	36,930	32,208	1,890	2,832	4,479	16,088	3,930
2018	150,382	73,579	13,486	41,807	36,360	2,356	3,091	5,235	13,013	3,262
2019	155,370	78,214	9,789	43,144	37,034	1,927	4,183	4,481	13,615	6,127
2020	144,503	81,922	8,851	32,782	27,103	2,258	3,421	4,254	13,234	3,460
2021	148,560	84,667	9,383	33,479	28,242	1,925	3,312	3,419	13,860	3,752
Standard form institutions										
2010	61,286,610	37,477,582	3,887,106	11,942,532	6,198,189	1,083,275	4,661,068	3,201,904	3,729,655	1,047,831
2011	65,274,393	40,768,251	3,851,323	12,580,320	6,816,187	1,153,646	4,610,487	3,182,671	3,853,950	1,037,878
2012	65,729,007	40,142,223	3,733,571	13,587,398	7,691,330	1,286,539	4,609,529	3,273,972	4,022,410	969,433
2013	67,013,138	39,445,931	3,696,422	14,936,380	8,874,662	1,358,220	4,703,498	3,510,529	3,888,646	1,535,230
2014	67,199,090	37,961,118	3,903,023	15,735,376	9,596,124	1,378,714	4,760,538	3,727,836	3,963,927	1,907,810
2015	68,549,882	37,846,802	3,854,707	16,592,074	10,404,080	1,351,287	4,836,707	4,002,837	4,220,484	2,032,978

TABLE 2

**Higher education R&D expenditures, by source of funds and survey form: FYs 2010–21**

(Dollars in thousands)

Survey form and fiscal year	All R&D expenditures	Source of funds								
		Federal government	State and local government	Institution funds			Business	Nonprofit organizations	All other sources	
				Total	Institutionally financed research	Cost sharing				Unrecovered indirect costs
2016	71,767,849	38,788,615	4,043,462	17,904,205	11,412,849	1,457,212	5,034,144	4,213,736	4,617,869	2,199,962
2017	75,147,113	40,248,750	4,175,150	18,849,841	12,099,568	1,560,068	5,190,205	4,434,172	5,140,622	2,298,578
2018	79,023,156	41,861,164	4,312,874	20,179,148	13,159,986	1,517,153	5,502,009	4,719,734	5,442,709	2,507,527
2019	83,487,471	44,461,456	4,510,505	21,072,243	13,974,337	1,564,114	5,533,792	5,059,309	5,688,418	2,695,540
2020	86,300,399	46,114,365	4,587,477	21,989,791	14,619,196	1,633,047	5,737,548	5,182,914	5,741,151	2,684,701
2021	89,723,447	49,143,460	4,736,015	22,448,362	14,945,647	1,625,933	5,876,782	5,115,480	5,590,273	2,689,857

<sup>a</sup> Beginning with FY 2012, institutions reporting less than \$1 million in total R&D expenditures completed a shorter version of the survey questionnaire. Prior to FY 2012, all institutions completed the standard form survey questionnaire.

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 3

**Higher education R&D expenditures, by source of funds, R&D field, and survey population: FY 2021**

(Dollars in thousands)

Source of funds and R&D field	All institutions	Survey population	
		Short form	Standard form
All R&D expenditures	89,872,007	148,560	89,723,447
Federal government	49,228,127	84,667	49,143,460
State and local government	4,745,398	9,383	4,736,015
Institution funds	22,481,841	33,479	22,448,362
Institutionally financed research	14,973,889	28,242	14,945,647
Cost sharing	1,627,858	1,925	1,625,933
Unrecovered indirect costs	5,880,094	3,312	5,876,782
Business	5,118,899	3,419	5,115,480
Nonprofit organizations	5,604,133	13,860	5,590,273
All other sources	2,693,609	3,752	2,689,857
Science	70,431,261	114,731	70,316,530
Computer and information sciences	2,959,709	7,786	2,951,923
Geosciences, atmospheric sciences, and ocean sciences	3,304,219	8,336	3,295,883
Life sciences	52,424,127	59,531	52,364,596
Mathematics and statistics	776,627	3,692	772,935
Physical sciences	5,759,095	18,465	5,740,630
Psychology	1,330,183	4,153	1,326,030
Social sciences	2,851,179	9,146	2,842,033
Sciences nec	1,026,122	3,622	1,022,500
Engineering	14,302,940	9,453	14,293,487
Non-S&E	5,137,806	24,376	5,113,430

nec = not elsewhere classified. S&amp;E = science and engineering.

**Note(s):**

Institutions are included in the short form population if they reported less than \$1 million in total R&amp;D expenditures during the previous fiscal year.

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2021.

TABLE 4

**Higher education R&D expenditures received from and passed through to other U.S. higher education institutions, by source of funds and survey population: FY 2021**

(Dollars in thousands)

Source	All institutions	Survey population	
		Short form	Standard form
All R&D received	4,177,954	20,448	4,157,506
Federally financed	3,779,826	19,372	3,760,454
Nonfederally financed	398,128	1,076	397,052
All R&D passed through	4,073,313	2,878	4,070,435
Federally financed	3,650,561	2,371	3,648,190
Nonfederally financed	422,752	507	422,245

**Note(s):**

Institutions are included in the short form population if they reported less than \$1 million in total R&D expenditures during the previous fiscal year.

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2021.

TABLE 5

**Higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures, by source of funds: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
All institutions	-	89,872,007	49,228,127	4,745,398	22,481,841	5,118,899	5,604,133	2,693,609
Johns Hopkins U. <sup>a</sup>	1	3,181,385	2,774,643	4,677	147,355	103,162	145,027	6,521
U. California, San Francisco	2	1,710,036	683,179	33,056	418,589	128,370	254,406	192,436
U. Michigan, Ann Arbor	3	1,639,645	891,125	2,066	581,768	91,117	63,650	9,919
U. Pennsylvania	4	1,631,950	792,089	20,733	511,958	190,755	111,885	4,530
U. Washington, Seattle	5	1,488,645	1,046,377	21,877	105,070	54,751	212,584	47,986
U. California, Los Angeles	6	1,454,880	721,043	71,014	302,528	87,959	194,232	78,104
U. California, San Diego	7	1,425,499	801,117	51,346	250,863	85,003	87,380	149,790
U. Wisconsin-Madison	8	1,380,075	646,764	135,923	412,540	31,502	117,817	35,529
Stanford U.	9	1,274,483	811,183	17,802	136,444	113,691	186,565	8,798
Harvard U.	10	1,254,008	616,589	5,137	384,197	55,357	172,327	20,401
Duke U.	11	1,237,686	776,632	1,073	153,692	187,864	98,223	20,202
Ohio State U.	12	1,236,111	559,797	45,862	425,597	129,914	50,022	24,919
U. North Carolina, Chapel Hill	13	1,205,883	747,895	9,550	304,506	48,938	79,885	15,109
Cornell U.	14	1,183,524	592,359	87,821	220,800	43,950	115,910	122,684
Yale U.	15	1,165,148	647,656	4,859	334,314	76,784	92,343	9,192
Texas A&M U., College Station and Health Science Center	16	1,147,720	528,057	198,483	313,192	32,978	45,135	29,875
U. Maryland <sup>b</sup>	17	1,142,264	713,283	42,597	307,481	30,638	43,450	4,815
U. Pittsburgh, Pittsburgh	18	1,135,416	724,993	9,484	255,241	33,240	65,217	47,241
U. Texas M. D. Anderson Cancer Center	19	1,124,971	217,073	293,325	233,279	211,849	32,741	136,704
Georgia Institute of Technology	20	1,114,481	852,319	107,465	71,780	56,015	23,558	3,344
Columbia U. in the City of New York	21	1,098,570	831,648	7,173	79,363	71,239	106,884	2,263
U. Minnesota, Twin Cities	22	1,072,961	570,946	69,842	309,620	44,460	45,879	32,214
New York U.	23	1,063,704	547,027	13,191	243,805	51,800	90,401	117,480
Vanderbilt U. and Vanderbilt U. Medical Center	24	1,019,273	586,880	2,897	313,810	81,360	31,526	2,800
Washington U., Saint Louis	25	989,214	606,127	1,471	188,980	105,176	85,060	2,400
Pennsylvania State U., University Park and Hershey Medical Center	26	970,544	622,532	46,993	216,134	33,787	26,230	24,868
U. Florida	27	959,965	423,154	161,448	266,197	31,394	46,582	31,190
U. Southern California	28	955,565	574,185	14,664	179,130	61,867	56,073	69,646
Massachusetts Institute of Technology	29	949,076	483,526	3,213	116,258	177,759	92,386	75,934
Northwestern U.	30	913,178	572,975	141	227,719	54,888	47,280	10,175
Emory U.	31	852,922	515,940	298	213,741	58,517	62,768	1,658



**TABLE 5**  
**Higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures, by source of funds: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U. California, Berkeley	32	846,872	354,478	40,383	185,077	71,696	137,896	57,342
Icahn School of Medicine at Mount Sinai	33	820,260	554,582	5,500	137,874	59,235	48,289	14,780
U. California, Davis	34	817,409	373,719	75,116	207,272	56,160	44,693	60,449
U. Texas, Austin	35	779,348	489,827	30,336	139,669	68,580	43,258	7,678
U. Arizona	36	770,031	353,117	28,604	234,514	24,601	31,045	98,150
U. Illinois, Urbana-Champaign	37	731,268	406,612	26,853	206,718	41,455	33,562	16,068
Baylor C. of Medicine	38	716,976	365,472	34,447	239,079	29,465	48,513	0
Michigan State U.	39	710,178	349,889	41,609	275,632	11,016	17,600	14,432
Indiana U., Bloomington	40	695,258	326,326	3,863	264,093	29,077	70,216	1,683
Purdue U., West Lafayette	41	679,482	295,278	37,369	211,557	64,364	25,857	45,057
Arizona State U.	42	677,303	274,541	43,390	258,139	23,580	56,958	20,695
Boston U.	43	652,096	402,443	501	160,347	20,071	45,146	23,588
U. Alabama, Birmingham	44	644,330	423,290	9,355	116,561	61,764	31,641	1,719
Rutgers, State U. New Jersey, New Brunswick	45	643,955	339,015	84,201	111,501	40,861	49,049	19,328
U. Texas Southwestern Medical Center	46	632,134	257,611	68,114	151,111	38,886	52,491	63,921
U. Utah	47	624,737	340,434	4,638	203,839	38,783	33,417	3,626
U. Virginia, Charlottesville	48	611,313	297,273	8,714	181,375	28,643	34,515	60,793
U. Colorado Anschutz Medical Campus <sup>c</sup>	49	562,855	363,999	25,162	69,836	48,309	45,580	9,969
U. Iowa	50	553,876	283,763	5,395	220,579	25,536	18,601	2
U. Cincinnati	51	551,826	309,097	7,234	145,772	39,228	38,816	11,679
U. Colorado Boulder	52	547,724	459,816	4,348	33,465	10,691	14,357	25,047
North Carolina State U.	53	547,118	239,115	127,290	126,142	49,478	4,806	287
Virginia Polytechnic Institute and State U.	54	542,045	216,733	60,571	220,645	32,964	5,050	6,082
U. California, Irvine	55	523,752	255,010	15,891	130,928	40,622	34,512	46,789
U. Chicago	56	497,651	394,275	3	32,174	38,215	32,167	817
U. Georgia	57	493,944	188,451	54,706	220,665	11,212	14,029	4,881
Scripps Research Institute	58	485,435	272,181	2,103	147,290	22,399	41,462	0
SUNY, Polytechnic Institute	59	465,273	25,427	206,962	77,753	150,915	456	3,760
Oregon Health and Science U.	60	452,812	329,016	1,007	44,030	40,991	37,168	600
Colorado State U., Fort Collins	61	447,197	303,901	28,559	76,610	11,979	19,536	6,612
California Institute of Technology	62	438,624	293,197	8,142	50,562	17,193	47,355	22,175
U. Illinois, Chicago	63	429,585	237,949	8,027	137,227	13,998	25,065	7,319
U. Kentucky	64	429,241	220,703	33,287	127,488	8,529	11,078	28,156

**TABLE 5**  
**Higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures, by source of funds: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
SUNY, U. Buffalo	65	425,349	210,257	27,020	132,361	21,474	24,932	9,305
Case Western Reserve U.	66	421,868	340,438	4,557	50,526	4,035	19,766	2,546
U. Rochester	67	409,255	309,647	3,074	41,775	34,036	15,949	4,774
U. South Florida <sup>d</sup>	68	405,088	185,364	23,254	161,442	14,798	10,584	9,646
Princeton U.	69	404,448	205,000	281	86,675	20,200	57,700	34,592
Carnegie Mellon U.	70	402,376	234,993	3,675	114,892	34,473	10,503	3,840
U. Missouri, Columbia	71	388,779	163,576	39,936	157,031	14,488	8,801	4,947
U. Kansas	72	385,637	187,249	33,921	112,360	27,517	11,831	12,759
Uniformed Services U. of the Health Sciences	73	384,490	275,573	0	82,058	0	26,859	0
U. Oklahoma, Norman and Health Science Center	74	380,048	193,639	38,203	116,014	19,294	9,504	3,394
U. Miami	75	375,841	231,001	15,057	69,955	34,768	24,311	749
Virginia Commonwealth U.	76	364,096	160,995	31,893	144,356	12,494	14,358	0
Iowa State U.	77	360,275	169,177	34,097	122,844	19,837	9,644	4,676
Washington State U.	78	357,648	179,536	48,317	106,804	9,897	11,326	1,768
Rockefeller U.	79	357,543	96,318	656	218,134	3,210	38,301	924
U. Massachusetts, Medical School	80	347,337	248,873	5,405	49,135	16,669	19,542	7,713
U. New Mexico	81	332,566	242,212	8,359	62,426	4,253	14,088	1,228
Dartmouth C. and Dartmouth Hitchcock Medical Center	82	330,226	152,335	1,446	144,008	4,723	19,660	8,054
Florida State U.	83	328,604	150,108	20,583	143,790	3,033	3,764	7,326
Utah State U.	84	325,223	264,575	22,481	24,792	6,975	482	5,918
U. Tennessee, Knoxville	85	316,273	135,202	12,577	151,533	7,224	5,995	3,742
U. Texas Health Science Center, Houston	86	308,823	165,139	42,636	47,653	16,305	24,200	12,890
U. Nebraska, Lincoln	87	307,083	106,564	55,626	111,550	19,843	6,145	7,355
U. Connecticut	88	302,329	183,362	4,394	88,458	9,827	12,683	3,605
Albert Einstein C. of Medicine	89	301,715	214,619	1,764	67,563	4,184	13,585	0
Temple U.	90	299,778	153,316	8,876	90,467	22,560	18,260	6,299
Louisiana State U., Baton Rouge	91	296,673	103,178	70,166	98,424	11,492	5,959	7,454
Georgetown U.	92	279,932	130,419	1,405	51,440	16,888	57,585	22,195
Medical U. South Carolina	93	277,761	162,394	4,423	72,286	22,129	8,899	7,630
Oregon State U.	94	276,955	179,180	47,981	25,573	6,517	2,956	14,748
Medical C. Wisconsin	95	276,850	136,385	640	85,666	23,118	25,747	5,294
Brown U.	96	276,331	198,574	28	50,127	4,925	19,410	3,267
Mississippi State U.	97	275,143	116,713	88,418	58,242	3,257	6,994	1,519

**TABLE 5**  
**Higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures, by source of funds: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
SUNY, Stony Brook U.	98	274,516	162,972	10,323	84,647	5,135	9,416	2,023
U. Hawaii, Manoa	99	271,768	157,772	20,742	78,176	2,660	11,138	1,280
Auburn U., Auburn	100	266,374	91,157	28,351	130,767	6,492	1,818	7,789
George Washington U.	101	266,108	161,349	2,296	63,225	4,155	26,131	8,952
Wake Forest U.	102	264,216	188,887	12,370	23,080	15,449	16,849	7,581
Woods Hole Oceanographic Institution	103	262,048	222,351	1,029	16,006	2,804	9,792	10,066
U. California, Santa Barbara	104	248,961	122,168	5,213	54,569	20,480	28,768	17,763
Florida International U.	105	246,075	105,309	19,445	111,950	2,311	6,437	623
U. Notre Dame	106	240,324	109,891	665	84,208	13,499	17,293	14,768
Clemson U.	107	237,485	89,883	25,748	98,955	16,178	6,562	159
Wayne State U.	108	235,519	117,976	9,594	72,758	4,228	26,574	4,389
U. Delaware	109	231,532	157,725	10,335	47,254	6,026	4,176	6,016
Tufts U.	110	224,956	166,809	3,242	15,442	8,655	26,955	3,853
U. Texas Health Science Center, San Antonio	111	219,734	106,824	25,110	51,848	10,085	25,548	319
U. Central Florida	112	218,596	109,310	11,703	76,091	11,489	5,025	4,978
U. South Carolina, Columbia	113	215,374	97,193	6,108	96,392	3,409	8,354	3,918
George Mason U.	114	214,207	103,712	3,387	65,041	5,910	30,643	5,514
U. Massachusetts, Amherst	115	213,824	116,349	8,595	71,954	7,710	5,479	3,737
Northeastern U.	116	211,342	143,421	2,227	44,964	9,547	10,718	465
Rice U.	117	207,404	95,648	7,372	62,352	7,123	30,638	4,271
Georgia State U.	118	206,472	79,834	6,353	105,546	615	11,938	2,186
Tulane U.	119	205,206	113,819	4,442	49,660	8,279	15,569	13,437
Kansas State U.	120	203,846	77,779	42,139	68,224	6,671	7,814	1,219
U. Houston	121	202,536	77,489	35,530	71,291	7,745	7,309	3,172
U. Nebraska, Medical Center	122	200,974	111,042	11,950	38,843	9,286	14,356	15,497
Thomas Jefferson U.	123	200,393	109,448	2,542	47,728	18,591	10,704	11,380
U. Louisville	124	200,362	97,179	7,351	65,375	9,846	7,685	12,926
West Virginia U.	125	199,907	89,802	9,993	72,419	4,505	5,949	17,239
Oklahoma State U., Stillwater	126	198,799	47,428	21,258	117,732	9,786	2,322	273
Texas Tech U.	127	197,739	33,938	27,357	108,999	12,221	14,929	295
U. Vermont	128	195,320	103,554	727	74,407	1,989	8,801	5,842
U. Arkansas for Medical Sciences	129	194,709	83,387	24,809	63,526	13,493	4,730	4,764
Montana State U., Bozeman	130	193,577	113,257	17,738	52,653	2,084	4,742	3,103

**TABLE 5**  
**Higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures, by source of funds: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Wichita State U.	131	192,042	77,427	6,161	20,493	86,621	297	1,043
U. Dayton	132	191,228	181,445	425	2,288	6,277	272	521
U. California, Riverside	133	189,600	97,182	11,424	49,131	6,809	7,703	17,351
U. Texas Medical Branch	134	185,759	117,915	7,739	39,565	8,424	12,116	0
U. Louisiana, Lafayette	135	181,400	65,436	7,472	40,891	67,346	255	0
U. Nevada, Reno	136	175,386	77,246	7,001	74,924	2,919	1,698	11,598
U. Alaska, Fairbanks	137	172,957	128,229	1,956	36,765	2,534	1,758	1,715
U. New Hampshire	138	167,373	99,323	7,547	47,286	7,870	3,511	1,836
New Jersey Institute of Technology	139	166,587	77,057	13,030	60,952	1,278	6,242	8,028
U. Arkansas, Fayetteville	140	164,443	48,534	50,207	51,933	6,561	6,257	951
North Dakota State U.	141	164,050	42,824	43,787	69,112	1,508	536	6,283
U. California, Santa Cruz	142	160,615	86,263	4,943	31,668	7,273	16,325	14,143
Drexel U.	143	152,752	93,517	4,601	36,063	3,196	8,682	6,693
Syracuse U.	144	151,717	34,200	4,328	96,162	6,481	10,501	45
U. Alabama, Huntsville	145	149,792	116,971	4,743	26,294	688	610	486
U. Maine	146	146,801	65,249	17,875	56,407	3,612	2,857	801
U. Texas, San Antonio	147	145,362	42,952	17,629	67,130	5,196	9,854	2,601
U. North Dakota	148	143,506	58,463	34,750	41,133	8,194	740	226
U. Oregon	149	139,193	82,242	769	48,194	1,611	5,448	929
U. Alabama, Tuscaloosa	150	129,509	53,880	15,693	55,682	2,679	1,291	284
U. Rhode Island	151	129,296	78,923	7,798	37,252	2,060	2,034	1,229
U. Texas, Arlington	152	126,477	46,946	19,262	49,685	3,006	6,131	1,447
SUNY, Binghamton U.	153	124,565	23,225	6,737	89,466	3,399	962	776
U. Texas, Dallas	154	122,825	58,249	11,065	29,308	6,581	17,622	0
U. Montana, Missoula	155	121,571	70,686	907	46,982	601	2,017	378
Rensselaer Polytechnic Institute	156	119,056	52,465	3,714	40,932	16,432	1,917	3,596
Augusta U.	157	116,480	61,943	200	46,412	3,282	4,531	112
U. Mississippi	158	116,175	76,886	4,165	28,869	2,600	3,165	490
Cold Spring Harbor Laboratory	159	114,903	56,907	21	35,757	3,333	18,885	0
SUNY, U. Albany	160	114,501	56,425	1,749	49,949	573	2,735	3,070
New Mexico State U.	161	110,580	64,699	22,094	13,581	2,562	1,982	5,662
U. Tennessee, Health Science Center	162	109,562	56,021	5,433	30,132	3,708	7,514	6,754
U. Texas, El Paso	163	109,410	43,930	19,841	34,866	994	3,441	6,338

**TABLE 5**  
**Higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures, by source of funds: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
San Diego State U.	164	107,681	43,473	4,107	56,085	523	2,340	1,153
Brandeis U.	165	107,549	52,147	404	34,998	1,418	9,045	9,537
Rush U.	166	107,398	73,279	1,338	9,645	15,329	7,807	0
U. Idaho	167	105,895	51,021	33,391	16,337	1,794	586	2,766
U. Nevada, Las Vegas	168	101,009	27,178	2,902	67,657	905	467	1,900
U. Massachusetts, Lowell	169	94,708	48,179	4,201	36,562	3,444	1,664	658
U. Wyoming	170	93,202	54,444	4,681	26,166	6,088	1,756	67
U. Maryland, Baltimore County	171	84,418	59,882	7,220	12,334	1,860	1,979	1,143
Michigan Technological U.	172	81,715	41,505	576	30,768	7,078	422	1,366
Colorado School of Mines	173	81,443	61,421	1,351	3,657	9,036	1,990	3,988
U. North Texas, Denton	174	81,252	18,702	5,567	53,591	1,992	1,329	71
Saint Louis U.	175	79,005	41,411	548	24,824	3,614	8,537	71
Texas State U.	176	72,510	31,116	3,949	31,792	765	4,888	0
Cleveland State U.	177	71,451	47,402	1,458	16,391	1,755	4,303	142
Northern Arizona U.	178	69,129	41,744	10,179	14,963	839	1,286	118
William & Mary	179	68,801	29,928	3,895	28,188	543	4,453	1,794
U. Southern Mississippi	180	67,417	44,401	11,576	9,499	1,239	655	47
U. Memphis	181	67,092	21,578	7,208	34,139	814	3,142	211
American U.	182	65,912	12,076	513	42,117	774	9,199	1,233
Van Andel Research Institute	183	65,789	22,231	703	32,688	90	3,610	6,467
Indiana U.-Purdue U., Indianapolis	184	65,330	30,290	687	27,359	1,855	4,970	169
Boston C.	185	65,156	34,257	1,632	12,870	522	15,071	804
Naval Postgraduate School	186	65,101	54,855	0	9,608	264	62	312
U. Massachusetts, Boston	187	63,723	23,673	7,113	25,532	2,222	4,829	354
Old Dominion U.	188	62,332	25,514	17,685	14,098	918	3,565	552
San Jose State U.	189	60,100	30,877	7,617	19,350	1,080	1,071	105
Florida Atlantic U.	190	58,471	28,510	5,852	13,984	2,762	4,968	2,395
U. Texas Rio Grande Valley	191	58,187	13,018	6,945	29,053	265	8,701	205
CUNY, City C.	192	57,361	34,218	9,824	11,311	691	1,045	272
Rochester Institute of Technology	193	56,043	31,187	5,213	15,139	2,563	558	1,383
U. Wisconsin-Milwaukee	194	55,664	24,397	15,783	11,939	1,596	924	1,025
Missouri U. of Science and Technology	195	54,437	26,164	172	19,872	4,007	616	3,606
U. Toledo	196	53,169	32,601	884	14,308	2,718	2,592	66

**TABLE 5**  
**Higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures, by source of funds: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Howard U.	197	52,412	35,443	1,176	12,094	2,860	839	0
Mercer U.	198	51,989	34,413	76	9,056	5,342	82	3,020
U. North Carolina, Charlotte	199	51,877	27,145	9,921	11,654	2,349	753	55
East Carolina U.	200	51,662	22,813	787	21,450	4,387	1,858	367
South Dakota State U.	201	51,542	18,607	15,713	3,929	1,304	2,820	9,169
U. Maryland Center for Environmental Science	202	51,201	14,072	25,740	8,670	496	1,636	587
U. California, Office of the President	203	50,848	653	29,282	20,864	0	0	49
U. North Texas, Health Science Center	204	50,698	32,464	9,224	6,615	1,633	626	136
Kent State U.	205	50,408	15,179	1,379	31,409	573	1,700	168
Ohio U.	206	49,764	19,164	883	24,765	3,433	1,040	479
Baylor U.	207	48,809	11,025	1,892	26,678	3,116	4,510	1,588
Worcester Polytechnic Institute	208	48,702	30,166	1,262	9,301	3,296	2,533	2,144
U. South Alabama	209	47,610	23,758	345	19,099	3,466	211	731
Southern Illinois U., Carbondale	210	47,210	12,655	492	25,725	7,901	437	0
Florida A&M U.	211	47,124	36,761	5,741	3,886	566	170	0
Boise State U.	212	46,065	31,357	2,402	10,836	576	670	224
U. California, Merced	213	45,964	18,621	7,048	14,224	373	1,290	4,408
Air Force Institute of Technology	214	45,703	27,025	0	18,015	663	0	0
SUNY, Upstate Medical U.	215	44,870	24,974	2,333	9,193	4,314	2,647	1,409
Louisiana State U., Health Sciences Center, New Orleans	216	44,370	34,272	244	3,743	2,800	3,178	133
U. Puerto Rico, Medical Sciences Campus	217	44,111	33,262	1,838	6,320	2,688	0	3
Loyola U., Chicago	218	44,036	26,793	188	8,941	3,359	3,695	1,060
Brigham Young U., Provo	219	43,916	30,439	1,217	6,514	3,592	1,772	382
Stevens Institute of Technology	220	43,386	33,998	1,642	5,491	1,403	675	177
Southern Methodist U.	221	41,960	17,886	1,039	18,643	2,072	2,144	176
Texas Tech U., Health Sciences Center	222	41,583	12,148	16,670	8,153	342	1,268	3,002
Portland State U.	223	41,311	29,842	3,576	4,722	847	1,724	600
Lehigh U.	224	41,279	29,051	2,243	8,806	531	613	35
North Carolina Agricultural and Technical State U.	225	40,751	25,755	542	14,005	149	257	43
U. Denver	226	38,751	23,415	951	6,869	1,740	5,281	495
Georgia Southern U.	227	37,201	3,373	259	29,635	3,482	452	0
Marquette U.	228	37,087	13,918	365	14,809	947	2,042	5,006
U. North Carolina, Greensboro	229	37,033	24,423	363	10,842	106	401	898

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**Higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures, by source of funds: FY 2021**

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Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U. West Florida	230	36,837	13,313	170	22,485	614	255	0
San Francisco State U.	231	35,768	15,993	2,305	16,710	0	743	17
Catholic U. of America	232	35,548	23,128	150	5,753	624	1,013	4,880
SUNY, Downstate Health Sciences U.	233	34,459	27,620	23	5,397	354	950	115
U. Missouri, Kansas City	234	33,855	21,203	122	9,896	451	763	1,420
CUNY, Hunter C.	235	33,816	23,166	2,359	7,156	85	471	579
Morehouse School of Medicine	236	32,637	25,181	611	3,622	0	3,223	0
U.S. Air Force Academy	237	32,086	31,818	0	200	68	0	0
Texas A&M U.-Corpus Christi	238	30,500	10,967	9,110	4,589	603	2,642	2,589
Illinois Institute of Technology	239	29,698	24,762	291	2,080	1,074	861	630
U. Puerto Rico, Rio Piedras	240	28,896	15,108	150	13,026	181	348	83
New Mexico Institute of Mining and Technology	241	28,745	24,900	631	1,654	1,236	191	133
U. Massachusetts, Dartmouth	242	28,729	8,223	1,422	16,908	1,488	513	175
SUNY, C. of Environmental Science and Forestry	243	28,440	6,979	12,203	7,152	580	752	774
U. Texas Health Science Center, Tyler	244	27,928	12,007	6,884	3,545	111	5,381	0
U. South Dakota	245	27,537	11,664	1,772	13,629	0	472	0
Louisiana Tech U.	246	27,417	6,428	2,767	15,465	937	0	1,820
Tennessee State U.	247	26,880	20,378	455	5,986	43	18	0
Rowan U.	248	26,458	17,400	4,442	2,700	677	1,239	0
Desert Research Institute	249	26,365	16,641	378	3,572	521	4,109	1,144
Wright State U.	250	26,259	19,617	584	4,999	415	582	62
California Polytechnic State U., San Luis Obispo	251	25,953	11,163	2,537	9,139	1,053	2,003	58
Chapman U.	252	25,820	8,574	612	10,273	567	5,766	28
Western Michigan U. and Homer Stryker M.D. School of Medicine	253	25,314	13,944	1,074	7,033	1,697	547	1,019
Northern Illinois U.	254	25,261	9,080	899	14,630	155	467	30
Miami U.	255	25,138	9,412	1,610	12,023	1,249	508	336
Villanova U.	256	24,723	5,826	1,372	15,623	381	1,368	153
Louisiana State U., Health Sciences Center, Shreveport	257	24,600	12,359	19	8,765	297	3,160	0
Nova Southeastern U.	258	24,513	10,386	3,636	9,152	486	629	224
Teachers C., Columbia U.	259	24,335	8,521	700	NA	1,700	10,914	2,500
Illinois State U.	260	24,152	9,787	746	12,813	25	772	9
Rutgers, State U. New Jersey, Newark	261	23,854	16,281	573	5,723	8	879	390
U. Minnesota, Duluth	262	23,767	5,325	6,341	11,624	381	77	19

**TABLE 5**  
**Higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures, by source of funds: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
California State U., Sacramento	263	23,699	5,582	11,012	5,344	147	508	1,106
Marshall U.	264	23,620	12,854	1,040	8,589	226	911	0
Texas A&M U.-Kingsville	265	23,578	9,265	4,652	3,614	353	5,468	226
Ponce Health Sciences U.	266	23,297	18,284	685	2,472	1,683	173	0
Creighton U.	267	23,251	8,585	4,347	7,115	1,478	542	1,184
Florida Institute of Technology	268	23,195	13,049	1,743	6,485	824	703	391
Delaware State U.	269	23,193	16,460	2,432	4,094	195	12	0
Middle Tennessee State U.	270	22,531	4,150	480	16,884	259	758	0
Albany Medical C.	271	22,443	13,166	0	3,324	3,788	709	1,456
Central Michigan U.	272	21,726	6,919	26	13,477	109	952	243
Tuskegee U.	273	21,355	15,424	2,676	2,724	0	0	531
U. Alaska, Anchorage	274	21,332	15,079	1,631	3,747	348	356	171
U. Nebraska, central administration	275	21,295	20,675	250	0	50	250	70
Morgan State U.	276	20,628	16,319	2,782	389	225	571	342
Oakland U.	277	20,261	7,426	1,694	8,499	1,023	1,423	196
California State U., East Bay	278	20,108	9,275	1,443	7,470	1,033	349	538
Embry-Riddle Aeronautical U.	279	19,830	14,859	103	1,365	1,195	426	1,882
U.S. Military Academy	280	19,696	13,708	0	3,980	45	268	1,695
Eastern Virginia Medical School	281	19,415	14,774	176	2,384	1,298	783	0
U. Nebraska, Omaha	282	19,006	13,503	1,855	3,125	201	177	145
Kennesaw State U.	283	18,880	3,104	619	13,722	318	1,032	85
New York Medical C.	284	18,872	10,739	1,098	794	4,002	1,503	736
Bowling Green State U.	285	18,619	7,263	1,333	9,178	84	754	7
East Tennessee State U.	286	18,449	8,358	20	4,902	134	4,785	250
U. Puerto Rico, Mayaguez	287	18,368	13,073	33	5,148	37	0	77
Southern Illinois U., Edwardsville	288	18,044	3,844	71	13,848	221	22	38
U. Colorado Denver <sup>C</sup>	289	18,039	11,866	3,047	804	493	1,671	158
Tarleton State U.	290	17,729	4,620	3,749	8,949	263	148	0
U. Guam	291	17,666	14,316	1,705	1,465	24	156	0
Prairie View A&M U.	292	17,582	9,566	4,041	3,421	115	439	0
Montclair State U.	293	17,390	4,146	543	10,479	41	2,163	18
U. Akron	294	17,340	9,024	442	4,217	2,093	653	911
U. New Orleans	295	16,979	3,674	748	10,069	372	1,159	957



**TABLE 5**  
**Higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures, by source of funds: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Clarkson U.	296	16,765	7,246	1,426	5,725	1,147	871	350
Fordham U.	297	16,731	4,076	25	10,871	83	1,011	665
U. North Carolina, Wilmington	298	16,656	6,852	5,748	2,150	867	951	88
California State U., Northridge	299	16,573	13,989	353	1,051	81	1,099	0
U. Tulsa	300	16,449	5,876	361	2,454	7,397	320	41
Jackson State U.	301	16,157	14,038	0	1,426	198	473	22
CUNY, Queens C.	302	16,063	12,386	1,241	1,776	149	425	86
Meharry Medical C.	303	15,840	13,784	0	565	1	1,490	0
U. North Florida	304	15,782	7,267	1,297	7,084	47	64	23
South Dakota School of Mines and Technology	305	15,746	11,587	1,345	1,944	569	76	225
CUNY, Advanced Science Research Center	306	15,403	11,840	357	1,943	251	702	310
Tennessee Technological U.	307	15,387	7,625	4,363	3,008	111	76	204
Texas Christian U.	308	15,336	4,448	438	8,684	1,670	23	73
U. of the Virgin Islands	309	15,231	13,099	1,818	17	142	155	0
California State U., Long Beach	310	15,134	11,178	877	1,113	195	528	1,243
Long Island U.	311	15,059	2,686	0	12,040	36	271	26
CUNY, Graduate School of Public Health and Health Policy	312	15,035	12,254	76	1,206	0	1,343	156
Montana Technological U.	313	14,933	6,133	5,658	2,739	402	0	1
James Madison U.	314	14,687	2,379	349	11,111	330	507	11
U. Baltimore	315	14,672	11,692	1,907	NA	0	745	328
U. Missouri, Saint Louis	316	14,632	5,812	5	5,549	96	2,804	366
New School	317	14,281	1,324	86	2,762	30	7,709	2,370
Alcorn State U.	318	14,188	7,593	4,457	2,103	6	29	0
North Carolina Central U.	319	14,105	10,676	976	NA	503	844	1,106
Humboldt State U.	320	14,103	1,975	3,971	3,818	164	2,108	2,067
Loma Linda U.	321	14,029	10,116	444	1,932	241	1,160	136
Idaho State U.	322	13,953	7,216	1,982	3,937	387	264	167
Northeast Ohio Medical U.	323	13,853	9,999	14	3,182	0	658	0
Rosalind Franklin U. of Medicine and Science	324	13,805	9,357	0	3,219	520	705	4
Western Washington U.	325	13,450	4,290	1,107	6,665	137	1,203	48
Sam Houston State U.	326	13,315	5,632	232	6,985	29	416	21
Charles R. Drew U. of Medicine and Science	327	13,228	9,945	151	2,834	0	298	0
U. Hawaii, system office	328	12,918	12,688	17	213	0	0	0

**TABLE 5**  
**Higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures, by source of funds: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Loyola Marymount U.	329	12,819	2,170	1,393	8,148	20	1,088	0
Xavier U. Louisiana	330	12,799	11,213	709	702	0	175	0
CUNY, John Jay C. of Criminal Justice	331	11,791	3,519	3,037	2,521	37	2,597	80
Hampton U.	332	11,669	11,517	0	152	0	0	0
California State U., San Bernardino	333	11,607	5,867	2,928	2,652	20	140	0
Texas Tech U., Health Sciences Center, El Paso	334	11,360	1,831	2,829	6,064	395	241	0
U. Tennessee, Chattanooga	335	11,192	4,507	705	5,296	65	223	396
Rhode Island C.	336	10,990	4,894	5,593	64	0	439	0
Midwestern U.	337	10,961	1,506	22	9,040	178	215	0
U.S. Naval Academy	338	10,818	10,247	0	169	0	402	0
Salisbury U.	339	10,552	3,271	3,604	3,567	8	102	0
Duquesne U.	340	10,521	5,020	1,138	2,788	146	1,429	0
California State U., San Marcos	341	10,213	8,831	1,110	267	0	5	0
Virginia State U.	342	10,123	4,846	2,278	2,602	0	397	0
Missouri State U.	343	10,014	8,931	196	735	132	20	0
West Texas A&M U.	344	9,920	2,195	5,258	1,554	832	31	50
St. Edward's U.	345	9,527	7,600	800	1,030	15	31	51
California State U., Los Angeles	346	9,382	7,342	108	1,561	0	371	0
California State U., Fresno	347	9,213	4,101	1,086	2,278	186	1,232	330
Texas Southern U.	348	9,128	5,562	760	2,692	0	114	0
Alabama A&M U.	349	9,065	5,967	2,534	447	117	0	0
California State U., Fullerton	350	9,006	4,551	251	3,904	97	203	0
Bryn Mawr C.	351	8,987	1,429	0	7,285	18	255	0
Clark Atlanta U.	352	8,892	5,355	0	3,435	57	45	0
Ball State U.	353	8,826	2,469	266	5,153	702	236	0
Kentucky State U.	354	8,756	3,716	4,870	0	72	98	0
Central State U.	355	8,751	4,165	2,866	1,720	0	0	0
U. Arkansas, Pine Bluff	356	8,713	3,960	2,216	2,502	0	35	0
U. Maryland, Eastern Shore	357	8,636	8,346	153	10	19	0	108
Arkansas State U., Jonesboro	358	8,422	4,249	3,103	721	349	0	0
U. Washington, Bothell	359	8,311	2,956	86	814	0	4,386	69
Florida Gulf Coast U.	360	8,197	4,467	3,160	0	136	434	0
Winston-Salem State U.	361	8,123	4,841	1,690	NA	0	1,077	515

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U. of the District of Columbia	362	8,104	6,851	1,253	0	0	0	0
Wesleyan U.	363	8,009	4,032	0	3,004	62	854	57
Clark U.	364	7,931	2,754	74	3,633	0	1,431	39
William Paterson U.	365	7,867	1,893	25	5,678	11	113	147
Oklahoma State U., Center for Health Sciences	366	7,758	2,304	127	5,241	56	30	0
Lincoln U., Jefferson City	367	7,621	5,621	2,000	NA	0	0	0
U. San Diego	368	7,580	2,554	26	4,203	0	414	383
U. Michigan, Dearborn	369	7,472	2,366	22	2,794	1,911	271	108
U. Hawaii, Hilo	370	7,411	5,510	53	1,260	166	421	1
U. Arkansas, Little Rock	371	7,397	6,939	79	3	139	94	143
Claremont Graduate U.	372	7,235	1,152	306	1,275	1,518	2,355	629
Eastern Michigan U.	373	7,233	2,237	185	4,618	71	119	3
U. Oklahoma, Tulsa	374	7,185	1,267	493	4,182	72	696	475
California State Polytechnic U., Pomona	375	7,011	4,396	846	1,469	141	159	0
Western Kentucky U.	376	6,944	2,348	377	4,035	105	60	19
California State U., Monterey Bay	377	6,882	3,813	1,277	1,610	3	172	7
Grand Valley State U.	378	6,809	1,415	418	3,398	0	1,023	555
Western U. of Health Sciences	379	6,688	5,620	312	124	365	260	7
DePaul U.	380	6,675	4,518	150	1,120	203	666	18
Edward Via C. of Osteopathic Medicine	381	6,629	537	0	5,879	31	182	0
West Virginia State U.	382	6,565	4,119	1,566	877	0	3	0
C. Charleston	383	6,361	4,126	304	1,458	0	377	96
Langston U.	384	6,345	3,089	2	2,645	609	0	0
CUNY, Brooklyn C.	385	6,318	4,505	64	1,242	105	339	63
California State U., Bakersfield	386	6,253	3,827	215	2,160	0	51	0
Wellesley C.	387	6,252	3,469	204	NA	138	2,024	417
U. New England	388	6,234	3,864	6	2,022	89	253	0
U. Charleston	389	6,215	6,215	0	0	0	0	0
Philadelphia C. of Osteopathic Medicine	390	6,186	318	55	2,837	1,220	1,756	0
Indiana U. Pennsylvania	391	6,180	1,503	331	3,718	7	607	14
Southern U. and A&M C., Agricultural Research and Extension Center	392	6,164	3,588	2,556	20	0	0	0
Gallaudet U.	393	6,126	2,140	192	3,049	0	327	418
U. Central Oklahoma	394	5,997	1,516	644	3,761	73	3	0

**TABLE 5**  
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Roseman U. of Health Sciences	395	5,985	53	0	5,775	65	1	91
Southern Connecticut State U.	396	5,750	713	90	4,245	0	473	229
Purdue U., Northwest	397	5,647	2,280	531	1,536	667	93	540
Hofstra U.	398	5,545	1,266	92	4,023	0	162	2
Naval War C.	399	5,542	5,542	0	0	0	0	0
Pennsylvania State U., Behrend	400	5,509	2,286	428	1,157	494	1,142	2
U. Southern Maine	401	5,480	2,020	2,903	301	0	190	66
Colorado C.	402	5,467	3,725	385	575	0	782	0
Yeshiva U.	403	5,452	1,509	0	2,843	0	256	844
U. Colorado Colorado Springs	404	5,338	3,942	504	338	518	36	0
Seton Hall U.	405	5,320	2,137	1,977	730	95	381	0
Azusa Pacific U.	406	5,318	212	59	4,893	2	152	0
U. of Health Sciences and Pharmacy in St. Louis	407	5,313	4,063	0	759	462	29	0
Des Moines U.	408	5,258	485	266	4,247	3	257	0
Hope C.	409	5,211	1,992	493	1,463	0	1,207	56
U. of St. Thomas (MN)	410	5,146	1,321	66	1,213	1,690	559	297
Rutgers, State U. New Jersey, Camden	411	5,142	2,905	16	1,423	123	612	63
Reed C.	412	5,132	1,916	32	2,782	0	291	111
High Tech High Graduate School of Ed.	413	5,032	0	0	0	0	5,032	0
Toyota Technological Institute, Chicago	414	4,967	3,090	0	1,602	232	43	0
Southern U. and A&M C., Baton Rouge	415	4,943	3,770	95	374	704	0	0
Texas Woman's U.	415	4,943	1,514	1,853	893	75	608	0
Williams C.	417	4,902	1,152	0	1,625	0	134	1,991
U. North Carolina, Asheville	418	4,844	2,322	346	440	30	1,706	0
Fort Valley State U.	419	4,842	4,429	42	371	0	0	0
Lamar U.	420	4,734	1,873	2,047	65	145	500	104
Pacific U.	421	4,690	2,072	269	1,480	100	769	0
U.S. Army War C.	422	4,662	4,662	0	0	0	0	0
Amherst C.	423	4,636	1,375	0	1,895	0	71	1,295
Barnard C.	424	4,632	3,527	0	718	22	365	0
Abilene Christian U.	425	4,597	827	0	199	3,546	25	0
U. Detroit Mercy	426	4,578	3,917	0	649	12	0	0
Morehouse C.	427	4,533	4,533	0	0	0	0	0

**TABLE 5**  
**Higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures, by source of funds: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Claremont McKenna C.	428	4,515	637	0	3,548	0	330	0
Appalachian State U.	429	4,509	1,694	229	2,106	365	115	0
Bucknell U.	430	4,476	1,696	0	1,439	311	203	827
New York Institute of Technology	431	4,465	1,988	142	2,069	0	266	0
West Chester U. Pennsylvania	432	4,433	608	66	3,540	27	119	73
U. Wisconsin-Stevens Point	433	4,401	1,776	1,010	1,289	12	121	193
Fisk U.	434	4,320	3,940	24	0	0	356	0
Norfolk State U.	435	4,316	3,976	0	0	52	35	253
Oregon Institute of Technology	436	4,314	252	3,792	NA	94	176	0
U. Washington, Tacoma	437	4,291	3,459	349	234	0	99	150
CUNY, Graduate Center	438	4,265	2,496	128	87	0	980	574
California State U., Chico	439	4,209	2,258	792	505	69	128	457
CUNY, Lehman C.	440	4,181	3,382	0	419	171	102	107
Grinnell C.	441	4,122	344	0	3,379	0	192	207
Smith C.	442	4,085	2,433	16	1,118	74	436	8
U. New Haven	443	4,069	2,069	434	209	418	832	107
U. North Carolina, general administration	444	4,024	408	3,616	0	0	0	0
U. of the Sciences Philadelphia	445	4,005	1,320	213	1,170	1,155	147	0
U. Central Arkansas	446	3,990	1,640	869	1,281	0	200	0
Fayetteville State U.	447	3,933	1,988	519	1,238	128	60	0
South Carolina State U.	447	3,933	3,933	NA	NA	NA	NA	NA
Murray State U.	449	3,844	2,721	21	982	120	0	0
Haverford C.	450	3,835	2,455	0	631	0	308	441
U. Central del Caribe	451	3,831	2,492	223	1,050	0	0	66
Texas A&M U.-Commerce	452	3,827	1,283	76	2,300	8	141	19
Carleton C.	453	3,800	1,499	6	1,948	0	229	118
Towson U.	454	3,794	1,758	153	1,608	42	181	52
National Defense U.	455	3,786	3,786	0	0	0	0	0
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	456	3,776	376	0	3,337	0	26	37
Texas A&M International U.	457	3,740	1,243	797	965	85	628	22
Franklin and Marshall C.	458	3,722	1,363	209	1,622	279	61	188
Albany C. of Pharmacy and Health Sciences	459	3,687	1,900	0	963	715	109	0

**TABLE 5**  
**Higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures, by source of funds: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Pace U.	460	3,649	2,536	0	819	1	293	0
Occidental C.	461	3,587	2,348	395	NA	392	452	0
U. Massachusetts, central office	462	3,541	342	2,417	256	1	504	21
Kean U.	463	3,538	362	318	2,783	70	5	0
Western Illinois U.	464	3,532	3,163	4	86	176	48	55
U. Texas of the Permian Basin	465	3,504	1,762	460	522	54	706	0
Touro U.	466	3,489	1,377	0	2,091	20	1	0
SUNY, C. of Optometry	467	3,460	2,105	0	437	907	10	1
Dakota State U.	468	3,416	2,603	218	376	201	0	18
Northern Kentucky U.	469	3,403	2,156	13	774	2	458	0
U. Virginia's C. Wise	470	3,310	1,307	1,267	718	0	9	9
Colgate U.	471	3,306	1,440	0	1,515	75	261	15
Swarthmore C.	472	3,296	1,414	0	1,571	1	310	0
U. Northern Iowa	473	3,259	1,995	530	654	0	80	0
Stephen F. Austin State U.	474	3,204	1,029	1,323	543	13	164	132
U. Nebraska, Kearney	475	3,201	1,327	746	1,081	37	10	0
Milwaukee School of Engineering	476	3,193	751	10	54	2,377	1	0
U. Northern Colorado	477	3,159	1,942	46	945	8	218	0
Santa Clara U.	478	3,142	1,930	118	NA	558	536	0
MGH Institute of Health Professions	479	3,037	2,500	0	30	0	507	0
U. Wisconsin-La Crosse	480	3,001	895	862	807	365	63	9
Colorado State U., Pueblo	481	2,990	1,508	1,244	201	0	0	37
Sonoma State U.	482	2,957	2,212	366	261	69	49	0
St. John's U., New York	483	2,940	1,950	0	254	200	393	143
Pennsylvania State U., Harrisburg	484	2,938	1,616	340	525	191	211	55
Middlebury C.	485	2,927	2,639	0	17	0	261	10
Saint Joseph's U.	486	2,922	1,158	673	872	134	85	0
Trinity U.	487	2,905	1,078	29	812	5	913	68
CUNY, C. Staten Island	488	2,860	2,234	165	277	0	76	108
Western Carolina U.	489	2,847	1,697	309	655	137	49	0
Northwest Indian C.	490	2,806	2,621	0	32	0	153	0
California State U., Maritime Academy	491	2,799	548	131	18	2,102	0	0
Youngstown State U.	492	2,775	2,198	206	278	77	16	0

**TABLE 5**  
**Higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures, by source of funds: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Austin Peay State U.	493	2,740	597	1,263	859	0	12	9
Pittsburg State U.	494	2,730	759	1,001	NA	969	1	0
California State U., Dominguez Hills	495	2,690	2,001	19	670	0	0	0
Alfred U.	496	2,660	939	1,040	449	149	83	0
Christopher Newport U.	497	2,656	1,497	2	919	89	149	0
Pepperdine U.	498	2,655	835	16	1,444	0	355	5
Alabama State U.	499	2,631	2,338	0	0	287	6	0
Bates C.	500	2,620	2,079	0	188	0	165	188
U. Illinois, Springfield	501	2,612	1,071	670	839	0	32	0
U. Wisconsin-Superior	502	2,602	1,843	148	490	16	42	63
Winthrop U.	503	2,586	1,495	351	632	3	105	0
Pratt Institute	504	2,547	294	835	38	0	1,380	0
Dillard U.	505	2,528	1,257	0	1,271	0	0	0
CUNY, Baruch C.	506	2,521	1,691	0	531	0	204	95
Purdue U., Fort Wayne	507	2,495	401	513	818	141	50	572
Davidson C.	508	2,466	1,151	7	771	24	421	92
Johnson C. Smith U.	509	2,461	2,365	52	0	4	40	0
Furman U.	510	2,431	1,028	2	1,259	15	77	50
Saginaw Valley State U.	511	2,428	1,899	0	394	5	114	16
Bowdoin C.	512	2,417	1,836	6	440	0	135	0
Chicago State U.	513	2,414	2,414	0	0	0	0	0
Central Washington U.	514	2,410	1,778	185	346	55	46	0
Framingham State U.	515	2,401	188	0	0	81	2,132	0
St. Cloud State U.	516	2,379	577	429	725	403	245	0
Harvey Mudd C.	517	2,359	1,443	0	695	11	98	112
California State U., Channel Islands	518	2,341	993	611	542	186	9	0
Skidmore C.	519	2,335	1,739	0	245	0	351	0
Plymouth State U.	520	2,318	421	0	1,806	0	40	51
Marymount U.	521	2,307	337	125	1,779	0	66	0
U. Richmond	522	2,294	1,534	0	370	0	390	0
Spelman C.	523	2,282	1,886	0	279	117	0	0
Lewis and Clark C.	524	2,281	702	0	1,319	0	260	0
U. Texas, Tyler	525	2,279	929	153	649	238	252	58

**TABLE 5**  
**Higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures, by source of funds: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Keck Graduate Institute	526	2,254 i	1,201 i	0 i	697 i	144 i	35 i	177 i
Coastal Carolina U.	527	2,245	948	864	391	0	42	0
Palmer C. of Chiropractic, Davenport	528	2,233	1,733	0	500	0	0	0
U. Louisiana, Monroe	529	2,198	1,465	569	8	0	156	0
Minnesota State U., Mankato	530	2,170	575	154	1,147	0	184	110
Adelphi U.	531	2,157	2,089	0	68	0	0	0
Pomona C.	532	2,146	930	9	1,140	0	67	0
Sul Ross State U.	533	2,143 i	505 i	130 i	123 i	26 i	810 i	549 i
Grambling State U.	534	2,124	731	595	798	0	0	0
Tougaloo C.	535	2,092 i	2,092 i	0 i	0 i	0 i	0 i	0 i
California State U., Stanislaus	536	2,085	1,354	104	112	504	11	0
SUNY, Geneseo	537	2,070	1,273	10	780	0	7	0
Citadel Military C. South Carolina	538	2,054	1,714	53	174	80	27	6
Suffolk U.	539	2,043	634	0	1,261	0	148	0
U. South Carolina, Aiken	540	2,042	1,884	0	154	0	4	0
Elon U.	541	2,032	138	0	1,883	0	11	0
Mount Holyoke C.	542	2,026	1,539	0	200	0	287	0
U. of the Incarnate Word	543	1,982	1,076	0	785	83	38	0
New England C. of Optometry	544	1,978	1,623	26	149	175	5	0
Western New England U.	545	1,973	781	889	180	58	65	0
SUNY, Buffalo State	546	1,962	977	682	210	24	64	5
Hobart and William Smith Colleges	547	1,941	758	662	391	0	73	57
Mercyhurst U.	548	1,937 i	745 i	584 i	608 i	0 i	0 i	0 i
Fort Lewis C.	549	1,926	1,746	14	124	42	0	0
Eastern Washington U.	550	1,921	775	965	NA	20	109	52
Northeastern Illinois U.	551	1,913	1,913	0	0	0	0	0
C. New Jersey	552	1,912	1,079	56	327	57	393	0
U. Puerto Rico, Cayey	553	1,881	1,202	0	539	11	129	0
U. Wisconsin-Green Bay	554	1,879	876	441	454	25	83	0
Manhattan C.	555	1,864	397	505	406	556	0	0
Roger Williams U.	556	1,854	1,202	34	460	11	147	0
U. Wisconsin-Eau Claire	557	1,852	909	410	308	83	139	3
Hawaii Pacific U.	558	1,849	1,741	36	36	0	36	0



**TABLE 5**  
**Higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures, by source of funds: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U. Houston-Downtown	559	1,828	1,169	72	215	0	372	0
Willamette U.	560	1,817	896	33	761	0	127	0
Savannah State U.	561	1,804	1,804	0	0	0	0	0
SUNY, C. of Technology, Canton	562	1,794	1,794	0	0	0	0	0
Trinity C., Hartford	563	1,775	1,348	0	409	0	18	0
Lawrence Technological U.	564	1,764	284	701	2	434	343	0
Morehead State U.	565	1,754	1,727	3	12	11	1	0
Hamilton C.	566	1,747	286	0	827	0	374	260
Heidelberg U.	567	1,725	308	1,092	303	0	22	0
Erikson Institute	568	1,723	772	16	31	0	904	0
Southeastern Louisiana U.	568	1,723	795	55	663	197	13	0
Elizabeth City State U.	570	1,717	1,603	52	NA	62	0	0
U. Houston-Clear Lake	571	1,716	865	620	80	107	44	0
Colby C.	572	1,672	750	0	427	0	495	0
Monmouth U.	573	1,667	174	778	75	25	601	14
CUNY, system office	574	1,664	768	363	105	68	360	0
Northwestern State U. Louisiana	575	1,663	738	634	291	0	0	0
U. Wisconsin-Oshkosh	576	1,656	1,083	94	415	31	33	0
Eastern Connecticut State U.	577	1,646	108	9	1,529	0	0	0
Franklin W. Olin C. of Engineering	578	1,627	636	0	478	15	481	17
Vassar C.	579	1,606	918	21	455	0	209	3
U. Ana G. Mendez, Gurabo	580	1,574	926	0	648	0	0	0
Dine C.	581	1,570	1,570	0	0	0	0	0
Seattle U.	582	1,562	1,102	54	129	0	270	7
Troy U.	583	1,548	1,488	0	35	25	0	0
La Sierra U.	584	1,517	812	0	137	0	568	0
Kenyon C.	585	1,500	1,022	0	289	0	189	0
Calvin U.	586	1,490	942	27	5	83	158	275
Drake U.	587	1,488	1,016	8	157	233	74	0
East Stroudsburg U. Pennsylvania	588	1,440	538	16	84	0	802	0
Bentley U.	589	1,430	762	0	0	0	668	0
U. North Georgia	590	1,415	497	3	693	1	221	0
Bowie State U.	591	1,398	1,398	0	0	0	0	0

**TABLE 5**  
**Higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures, by source of funds: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Union C., Schenectady	592	1,396	976	0	340	7	64	9
U. San Francisco	593	1,375	255	200	466	0	434	20
U. of the Pacific	594	1,371	1,106	211	NA	11	43	0
CUNY, New York City C. of Technology	595	1,367	1,197	0	129	31	0	10
Northern Michigan U.	596	1,364	366	8	769	0	127	94
Marshall B. Ketchum U.	597	1,351 i	343 i	0 i	668 i	340 i	0 i	0 i
Virginia Military Institute	597	1,351	1,075	2	274	0	0	0
U. Puerto Rico, Humacao	599	1,321	1,137	0	184	0	0	0
Kettering U.	600	1,315	353	7	586	314	55	0
Central Connecticut State U.	601	1,314	663	254	390	0	7	0
Texas A&M U.-San Antonio	602	1,311	277	113	838	0	75	8
Babson C.	603	1,286	0	0	566	160	293	267
Black Hills State U.	604	1,280	1,124	76	80	0	0	0
Macalester C.	604	1,280	617	4	568	0	91	0
SUNY, C. Plattsburgh	604	1,280	824	61	358	0	32	5
Florida Polytechnic U.	607	1,269	459	91	606	89	17	7
West Virginia School of Osteopathic Medicine	608	1,255	423	31	801	0	0	0
U. Hartford	609	1,252	766	0	361	5	120	0
Stockton U.	610	1,246	486	147	572	0	41	0
Connecticut C.	611	1,244	439	0	785	0	20	0
Biola U.	612	1,243 i	714 i	18 i	302 i	80 i	98 i	31 i
U. Puget Sound	613	1,233	591	0	569	0	73	0
Lake Superior State U.	614	1,226	605	49	454	19	0	99
Doane U.	615	1,176 i	1,034 i	0 i	127 i	0 i	15 i	0 i
U. Alaska, Southeast	615	1,176	1,046	30	35	4	54	7
St. Catherine U.	617	1,157	270	5	78	19	755	30
Utah Valley U.	618	1,154	1,028	41	63	0	22	0
U. Wisconsin-Platteville	619	1,144 i	353 i	294 i	194 i	264 i	30 i	9 i
CUNY, York C.	620	1,133	922	0	168	0	43	0
California Lutheran U.	621	1,129	518	9	469	0	133	0
New Mexico Highlands U.	621	1,129 i	1,085 i	0 i	0 i	0 i	44 i	0 i
Albion C.	623	1,127 i	289 i	0 i	838 i	0 i	0 i	0 i
Saint John's U.	624	1,125 i	0 i	0 i	1,125 i	0 i	0 i	0 i

**TABLE 5**  
**Higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures, by source of funds: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U. of Mary Washington	625	1,123	485	100	480	2	25	31
SUNY, C. Brockport	626	1,114	500	211	268	32	74	29
SUNY, Cobleskill	627	1,106	243	856	6	1	0	0
Northland C.	628	1,096	697	29	157	0	213	0
Butler U.	629	1,071	741	0	175	83	72	0
C. Wooster	629	1,071	300	0	683	0	88	0
C. of Saint Benedict	631	1,064	46	0	1,018	0	0	0
Indiana State U.	632	1,042	582	244	135	68	13	0
Alaska Pacific U.	633	1,036	189	0	0	817	17	13
Canisius C.	633	1,036	597	0	0	0	439	0
Whitman C.	635	1,034	481	0	425	0	128	0
Ithaca C.	636	1,030	685	51	224	5	35	30
Clafin U.	637	1,015	1,005	0	0	0	10	0
Lafayette C.	637	1,015	508	4	417	0	75	11
Nevada State C.	639	1,014	1,012	0	2	0	0	0
Augustana U.	640	1,013	1,013	0	0	0	0	0
SUNY, Oswego	641	1,003	415	81	439	42	14	12
U. Wisconsin-River Falls	642	999	212	588	3	141	0	55
U. Maine Farmington	643	996	699	72	160	21	31	13
Eastern Kentucky U.	644	986	530	76	351	0	29	0
U. South Carolina, Beaufort	645	976	464	0	367	0	145	0
Gannon U.	646	972	61	137	309	120	345	0
Sacred Heart U.	646	972	675	0	244	0	53	0
Rhode Island School of Design	648	971	250	41	416	215	49	0
U. Hawaii, Maui C.	649	967	951	0	16	0	0	0
New C. Florida	650	960	92	0	465	355	40	8
Gustavus Adolphus C.	651	953	445	14	83	126	85	200
Hult International Business School	651	953	466	21	300	33	94	39
Angelo State U.	653	943	20	643	65	12	203	0
Liberty U.	654	937	120	75	657	68	17	0
Millersville U. Pennsylvania	655	931	785	20	112	0	4	10
Bethune-Cookman U.	656	928	715	0	206	0	0	7
Pennsylvania State U., Great Valley School of Graduate Professional Studies	657	927	457	0	465	5	0	0

**TABLE 5**  
**Higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures, by source of funds: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Quinnipiac U.	658	926 i	475 i	47 i	236 i	37 i	115 i	16 i
Valparaiso U.	659	925	805	5	113	0	2	0
Siena C.	660	923	265	6	434	158	60	0
Keene State C.	661	919	894	0	25	0	0	0
Indiana U., South Bend	662	898	337	0	423	0	138	0
Norwich U.	663	890	588	22	280	0	0	0
Arcadia U.	664	889	371	289	0	0	229	0
Midwestern State U.	665	882	515	51	278	0	38	0
Albany State U.	666	880	552	203	0	125	0	0
Indiana Wesleyan U.	667	878	216	0	333	0	329	0
Saint Michael's C.	668	876	744	0	132	0	0	0
Saint Francis U.	669	872	199	0	20	0	0	653
U. Minnesota, Morris	670	855	162	170	502	0	21	0
Ferris State U.	671	853	565	121	95	23	49	0
Mills C.	672	850	683	0	0	0	129	38
National U. of Natural Medicine	672	850	523	0	195	132	0	0
Fairfield U.	674	849	147	0	354	0	348	0
Fielding Graduate U.	675	843	791	0	52	0	0	0
Ursinus C.	676	835	682	136	0	0	17	0
Radford U.	677	832	253	130	230	10	202	7
La Salle U.	678	829	21	0	808	0	0	0
Colorado Mesa U.	679	823	664	8	11	1	139	0
Dominican U. California	679	823 i	731 i	0 i	0 i	0 i	92 i	0 i
Weber State U.	681	822	423	198	53	56	NA	92
Polytechnic U. Puerto Rico	682	821	821	0	NA	0	0	NA
St. Olaf C.	683	816	271	0	520	0	25	0
American Samoa Community C.	684	815	815	0	0	0	0	0
Augsburg U.	684	815	408	0	246	0	0	161
Texas A&M U.-Central Texas	686	814	653	126	6	21	8	0
Andrews U.	687	802	256	3	441	0	102	0
Fort Hays State U.	688	800	482	37	185	48	6	42
Evergreen State C.	689	783	256	525	0	0	2	0
Oberlin C.	690	776	505	0	160	67	44	0

**TABLE 5**  
**Higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures, by source of funds: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Southern Utah U.	691	773	650	1	122	0	0	0
Dickinson C.	692	767	305	59	275	4	103	21
Providence C.	693	766	574	0	124	0	68	0
U. Wisconsin-Whitewater	694	760	623	62	0	37	5	33
U. Michigan, Flint	695	752	113	0	367	203	38	31
Arkansas Tech U.	696	751	632	51	30	38	0	0
Benedict C.	697	745	725	0	0	0	20	0
U. Ana G. Mendez, Cupey	698	739	598	0	141	0	0	0
Roanoke C.	699	738	10	0	678	0	50	0
West Liberty U.	699	738	406	109	200	0	23	0
U. Minnesota, Rochester	701	730	103	0	627	0	0	0
Wheaton C., Wheaton	702	729	148	0	327	0	254	0
Denison U.	703	724	608	0	42	0	74	0
U. Portland	704	718	90	44	361	0	223	0
Dordt U.	705	696	594	0	88	0	14	0
Stonehill C.	706	695	526	0	169	0	0	0
CUNY, Medgar Evers C.	707	694	470	0	218	0	6	0
Seattle Pacific U.	708	683	630	0	49	0	1	3
Pennsylvania State U., Altoona	709	678	225	0	289	5	159	0
Salus U.	710	677	414	42	55	147	19	0
Arkansas C. of Health Education	711	672	69	0	385	0	218	0
Sewanee: U. of the South	712	668	45	0	362	0	194	67
McNeese State U.	713	664	17	60	397	0	190	0
Hendrix C.	714	651	584	4	63	0	0	0
Gettysburg C.	715	648	268	0	84	20	210	66
Saint Mary's U. Minnesota	716	640	538	0	14	0	88	0
U. Puerto Rico, Aguadilla	717	639	425	125	89	0	0	0
Millsaps C.	718	636	631	0	2	3	0	0
Maryland Institute C. of Art	719	634	309	109	52	1	78	85
Mayville State U.	719	634	513	121	0	0	0	0
U. Scranton	721	630	394	0	223	0	13	0
Loyola U., Maryland	722	628	339	69	62	0	158	0
Salve Regina U.	723	624	624	0	0	0	0	0

**TABLE 5**  
**Higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures, by source of funds: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Clayton State U.	724	616	532	24	60	0	0	0
Southwestern Oklahoma State U.	725	614	419	73	106	0	16	0
Southern Arkansas U.	726	611	422	0	189	0	0	0
Stetson U.	726	611	304	36	98	0	0	173
SUNY, Farmingdale State C.	728	606	180	0	425	0	1	0
U. Ana G. Mendez, Carolina	729	602	489	0	113	0	0	0
Kalamazoo C.	730	600	225	4	270	0	101	0
San Juan Bautista School of Medicine	731	598	448	0	150	0	0	0
Salish Kootenai C.	732	596	596	0	0	0	0	0
Indiana U., Southeast	733	591	64	169	284	0	74	0
Emporia State U.	734	586	312	11	263	0	0	0
Emerson C.	735	581	198	0	178	0	205	0
U. Puerto Rico, Ponce	736	580	427	137	16	0	0	0
Western Colorado U.	737	559	360	23	88	46	42	0
Graduate School of the Stowers Institute for Medical Research	738	555	0	0	0	0	555	0
Indiana U., Northwest	739	553	273	0	280	0	0	0
Nicholls State U.	740	551	182	168	22	41	138	0
U. Tampa	740	551	124	0	379	0	34	14
Cooper Union	742	545	233	0	249	24	0	39
Longwood U.	743	544	412	54	72	0	6	0
SUNY, Potsdam	744	540	433	1	54	0	52	0
U. North Alabama	745	539	331	0	208	0	0	0
Coe C.	746	538	330	60	5	13	17	113
Lawrence U.	747	536	248	0	89	0	100	99
Southern Oregon U.	748	534	312	129	31	51	11	0
Rollins C.	749	533	165	0	245	0	117	6
Eastern Illinois U.	750	529	289	10	169	4	57	0
Bridgewater State U.	751	522	363	18	141	0	0	0
Montana State U., Billings	751	522	429	0	33	60	0	0
U. Houston system administration	753	513	0	0	513	0	0	0
Hartford International U. for Religion and Peace	754	512	0	0	0	0	512	0
Minot State U.	754	512	439	48	25	0	0	0
Niagara U.	756	509	34	78	194	0	203	0

**TABLE 5**  
**Higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures, by source of funds: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Bluefield State C.	757	506	501	5	0	0	0	0
Point Loma Nazarene U.	758	505	126	135	12	1	173	58
Lake Erie C. of Osteopathic Medicine	759	502	0	0	374	0	128	0
U. West Georgia	760	500 i	233 i	66 i	21 i	68 i	112 i	0 i
U. South Carolina Upstate	761	496	216	0	216	0	64	0
U. Central Missouri	762	495	296	76	62	0	61	0
Hamline U.	763	493	320	0	148	25	0	0
Illinois C. of Optometry	764	490	13	0	173	296	8	0
Georgia Gwinnett C.	765	489	372	95	22	0	0	0
Simmons U.	766	487	466	0	10	0	0	11
Loyola U., New Orleans	767	476	93	25	20	0	338	NA
Regis U.	767	476	328	0	98	26	24	0
Oakwood U.	769	474	463	0	11	0	0	0
Oglala Lakota C.	770	473	473	0	0	0	0	0
Ohio Northern U.	771	471	431	25	15	0	0	0
Utica C.	772	466	0	0	466	0	0	0
Claremont School of Theology	773	464 i	0 i	0 i	313 i	0 i	151 i	0 i
Cornell C.	773	464	264	0	128	0	0	72
Elmhurst U.	773	464	459	0	NA	0	0	5
Louisiana State U., Shreveport	776	462	273	24	143	1	21	0
Minnesota State U., Moorhead	776	462	222	147	0	0	93	0
Jacksonville U.	778	460	0	352	0	70	38	0
A. T. Still U. of Health Sciences	779	448	257	9	101	44	37	0
C. of the Holy Cross	780	445	425	0	0	0	20	0
Wittenberg U.	780	445	228	151	66	0	0	0
Keiser U.	782	443 i	0 i	443 i	0 i	0 i	0 i	0 i
Auburn U., Montgomery	783	442	201	0	240	0	1	0
Northwest Nazarene U.	783	442	307	0	135	0	0	0
Indiana U., Kokomo	785	441	27	40	373	0	1	0
United Tribes Technical C.	785	441	405	32	4	0	0	0
Concordia U., Wisconsin	787	439	170	0	0	0	269	0
Albizu U.	788	428	0	126	272	0	0	30
Palo Alto U.	788	428	207	0	108	2	31	80

**TABLE 5**  
**Higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures, by source of funds: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Valdosta State U.	790	423	123	69	126	102	3	0
Touro C.	791	419	77	0	336	6	0	0
Southern California U. of Health Sciences	792	418	360	47	7	4	0	0
Widener U., Chester	793	417	351	40	0	20	2	4
Bradley U.	794	416	101	37	97	181	0	0
Metropolitan State U. of Denver	794	416	263	0	98	0	19	36
St. Norbert C.	796	412	177	0	15	23	32	165
Iona C.	797	411	411	0	0	0	0	0
Ramapo C. New Jersey	798	408	373	0	35	0	0	0
Southwestern U.	798	408	11	0	329	0	68	0
Merrimack C.	800	407	337	0	36	0	34	0
U. Wisconsin-Stout	801	406	27	239	138	0	1	1
Ohio Wesleyan U.	802	404	275	0	71	30	0	28
Whitworth U.	803	403	91	0	205	0	107	0
Lewis-Clark State C.	804	401	349	52	0	0	0	0
Governors State U.	805	391	391	0	0	0	0	0
Mississippi Valley State U.	805	391	379	0	12	0	0	0
Pennsylvania State U., Berks	807	382	293	54	33	0	2	0
SUNY, C. Cortland	808	381	340	21	0	7	0	13
Juniata C.	809	380	229	0	81	0	45	25
St. Bonaventure U.	810	378	215	0	4	0	7	152
John Carroll U.	811	374	324	0	0	0	0	50
Montana State U., Northern	812	372	148	214	0	10	0	0
Wilkes U.	812	372	109	2	197	0	64	0
Berry C.	814	371	332	0	23	0	16	0
Pacific Lutheran U.	815	370	147	0	47	0	162	14
Pennsylvania State U., Abington	816	369	279	0	89	0	1	0
Eckerd C.	817	367	139	12	59	74	83	0
Life U.	818	364	0	0	183	52	70	59
Luther C.	819	363	154	5	184	0	16	4
Susquehanna U.	820	360	20	0	33	0	307	0
Eastern New Mexico U., Portales	821	355	323	4	27	0	0	1
Western Connecticut State U.	822	353	201	56	96	0	0	0



**TABLE 5**  
**Higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures, by source of funds: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Agnes Scott C.	823	351	152	0	54	0	145	0
Northern New Mexico C.	824	350	350	0	0	0	0	0
Pontifical Catholic U. Puerto Rico, Ponce	824	350	186	0	164	0	0	0
St. Mary's C. Maryland	826	349	124	125	13	0	87	0
Bloomsburg U. Pennsylvania	827	348	137	48	157	0	6	0
Bryant U.	828	347	280	0	63	0	4	0
LeTourneau U.	829	346	217	0	57	30	42	0
MCPHS U.	829	346	85	0	254	0	7	0
Barry U.	831	343	40	0	23	201	79	0
C. Southern Nevada	832	335	327	8	0	0	0	0
SUNY, New Paltz	833	329	114	0	175	2	22	16
Rider U.	834	322	126	0	182	0	14	0
Lipscomb U.	835	321	222	0	0	22	77	0
Fairleigh Dickinson U.	836	318	248	0	0	16	54	0
Bryn Athyn C.	837	316	0	0	270	0	46	0
Concordia C., Moorhead	838	308	35	0	273	0	0	0
D'Youville C.	839	306	175	0	56	0	75	0
DePauw U.	840	304	89	0	76	0	0	139
Austin C.	841	302	85	0	115	0	102	0
Whittier C.	842	300	0	0	169	0	131	0
Coppin State U.	843	299	212	1	0	0	0	86
Saint Martin's U.	843	299	222	39	1	16	21	0
Southern U., New Orleans	845	297	222	75	0	0	0	0
McMurry U.	846	296	262	0	0	0	34	0
Slippery Rock U. Pennsylvania	847	295	50	28	190	24	3	0
Westmont C.	847	295	180	0	0	0	115	0
Converse C.	849	294	241	0	0	0	0	53
Kutztown U. Pennsylvania	850	292	159	68	65	0	0	0
Muhlenberg C.	851	288	28	0	218	21	21	0
Earlham C.	852	287	8	0	61	8	19	191
U. Evansville	853	284	144	0	89	0	0	51
Northeastern State U.	854	279	179	29	44	1	26	0
Jacksonville State U.	855	275	245	0	30	0	0	0

**TABLE 5**  
**Higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures, by source of funds: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Augustana C.	856	271	116	0	114	16	20	5
Future Generations U.	857	270 i	0 i	15 i	218 i	34 i	0 i	3 i
Lake Forest C.	858	267	0	0	117	0	53	97
Manchester U.	859	266	134	0	60	0	0	72
Centre C.	860	265	136	0	109	0	20	0
Washington and Lee U.	861	256	163	0	NA	0	93	0
Goucher C.	862	255	165	0	90	0	0	0
Moravian C.	862	255	90	0	160	0	5	0
Pennsylvania State U., Wilkes-Barre	864	250	249	0	1	0	0	0
U. Dallas	865	249	5	0	30	137	77	0
Bard C.	866	248	67	0	181	0	0	0
SUNY, Empire State C.	866	248	0	0	30	0	218	0
Georgia C. and State U.	868	247	127	20	50	0	30	20
U. North Carolina, Pembroke	869	243	243	0	0	0	0	0
East Central U.	870	242	216	8	16	2	0	0
Linfield U.	871	239	67	0	109	0	63	0
U. West Alabama	871	239	219	0	6	0	14	0
Delta State U.	873	238	219	0	19	0	0	0
Truman State U.	874	237	46	0	151	0	20	20
Eastern Mennonite U.	875	233	151	0	0	0	78	4
Southeast Missouri State U.	876	228	212	5	10	0	1	0
Pitzer C.	877	225	0	0	225	0	0	0
Ouachita Baptist U.	878	217	217	0	NA	0	0	0
Pennsylvania State U., Greater Allegheny	879	216	77	0	1	0	138	0
Alverno C.	880	215	0	0	215	0	0	0
Missouri Western State U.	881	214	168	0	45	1	0	0
SUNY, Oneonta	881	214	24	17	166	3	4	0
Taylor U.	881	214	9	0	74	116	3	12
Gonzaga U.	884	212	107	0	40	0	65	0
Baldwin Wallace U.	885	210	20	17	89	0	84	0
Francis Marion U.	886	207	174	0	0	0	0	33
Philander Smith C.	886	207 i	207 i	0 i	0 i	0 i	0 i	0 i
Columbus State U.	888	206	77	9	78	37	5	0

**TABLE 5**  
**Higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures, by source of funds: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
SUNY, Delhi	889	201	132	13	0	0	56	0
Texas Chiropractic C.	890	200 i	0 i	0 i	188 i	12 i	0 i	0 i
U. Tennessee, Martin	891	199	22	6	121	0	23	27
Northern State U.	892	190	173	10	7	0	0	0
Northwest Missouri State U.	892	190	100	0	90	0	0	0
Parker U.	892	190	0	0	90	0	100	0
Wheaton C., Norton	895	186	186	0	0	0	0	0
Alabama C., Osteopathic Medicine	896	184	17	0	167	0	0	0
Northeast C. of Health Sciences	896	184	0	0	184	0	0	0
Delaware Valley U.	898	182	41	59	43	20	3	16
St. Thomas U.	899	176	123	0	0	0	53	0
New Jersey City U.	900	169	169	0	0	0	0	0
Eastern Oregon U.	901	162	143	6	11	0	2	0
Metropolitan State U.	901	162 i	85 i	11 i	45 i	8 i	8 i	5 i
Pennsylvania State U., Lehigh Valley	901	162	159	0	3	0	0	0
U. Southern Indiana	904	161	36	28	81	1	15	0
SUNY, C. Old Westbury	905	155 i	87 i	17 i	35 i	4 i	9 i	3 i
SUNY, Morrisville	905	155	0	155	0	0	0	0
U.S. Coast Guard Academy	905	155	154	0	0	0	1	0
Pennsylvania State U., New Kensington	908	152	129	0	5	0	18	0
Scripps C.	909	150 i	73 i	4 i	49 i	5 i	15 i	4 i
U. Lynchburg	909	150 i	86 i	2 i	36 i	10 i	12 i	4 i

i = imputed. NA = not available; data were not provided by institution.

<sup>a</sup> Johns Hopkins University includes the Applied Physics Laboratory, with \$1,949,752 thousand in total R&D expenditures in FY 2021.<sup>b</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.<sup>c</sup> The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.<sup>d</sup> The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

**Note(s):**

Institutions are included in the short form population if they reported less than \$1 million in total R&D expenditures during the previous fiscal year. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2021.

TABLE 6

**Higher education R&D expenditures at institutions in both survey populations, by state, institutional control, system, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures
Alabama	1,274,367
Public	1,252,354
Alabama A&M U.	9,065 <sup>i</sup>
Alabama State U.	2,631
Auburn U. System	266,816
Auburn U., Auburn	266,374
Auburn U., Montgomery	442
Jacksonville State U.	275
Troy U.	1,548
U. Alabama System	923,631
U. Alabama, Birmingham	644,330
U. Alabama, Huntsville	149,792
U. Alabama, Tuscaloosa	129,509
U. North Alabama	539
U. South Alabama	47,610
U. West Alabama	239
Private	22,013
Alabama C., Osteopathic Medicine	184
Oakwood U.	474
Tuskegee U.	21,355
Alaska	196,501
Public (U. Alaska System)	195,465
U. Alaska, Anchorage	21,332
U. Alaska, Fairbanks	172,957
U. Alaska, Southeast	1,176
Private	1,036
Alaska Pacific U.	1,036
Arizona	1,518,033
Public	1,518,033
Arizona Board of Regents	1,516,463
Arizona State U.	677,303
Northern Arizona U.	69,129
U. Arizona	770,031
Dine C.	1,570
Arkansas	390,783
Public	389,036
Arkansas State U. System	8,422
Arkansas State U., Jonesboro	8,422
Arkansas Tech U.	751
Southern Arkansas U.	611
U. Arkansas System	375,262
U. Arkansas for Medical Sciences	194,709
U. Arkansas, Fayetteville	164,443
U. Arkansas, Little Rock	7,397
U. Arkansas, Pine Bluff	8,713
U. Central Arkansas	3,990
Private	1,747
Arkansas C. of Health Education	672
Hendrix C.	651

TABLE 6

**Higher education R&D expenditures at institutions in both survey populations, by state, institutional control, system, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures
Ouachita Baptist U.	217
Philander Smith C.	207
California	11,234,594
Public	7,945,304
California State U. System	405,767
California Polytechnic State U., San Luis Obispo	25,953
California State Polytechnic U., Pomona	7,011
California State U., Bakersfield	6,253
California State U., Channel Islands	2,341
California State U., Chico	4,209
California State U., Dominguez Hills	2,690
California State U., East Bay	20,108
California State U., Fresno	9,213
California State U., Fullerton	9,006
California State U., Long Beach	15,134
California State U., Los Angeles	9,382
California State U., Maritime Academy	2,799
California State U., Monterey Bay	6,882
California State U., Northridge	16,573
California State U., Sacramento	23,699
California State U., San Bernardino	11,607
California State U., San Marcos	10,213
California State U., Stanislaus	2,085
Humboldt State U.	14,103
San Diego State U.	107,681
San Francisco State U.	35,768
San Jose State U.	60,100
Sonoma State U.	2,957
Naval Postgraduate School	65,101
U. California System	7,474,436
U. California, Berkeley	846,872
U. California, Davis	817,409
U. California, Irvine	523,752
U. California, Los Angeles	1,454,880
U. California, Merced	45,964
U. California, Office of the President	50,848
U. California, Riverside	189,600
U. California, San Diego	1,425,499
U. California, San Francisco	1,710,036
U. California, Santa Barbara	248,961
U. California, Santa Cruz	160,615
Private	3,289,290
Azusa Pacific U.	5,318
Biola U.	1,243
California Institute of Technology	438,624
California Lutheran U.	1,129
Chapman U.	25,820
Charles R. Drew U. of Medicine and Science	13,228
Dominican U. California	823

TABLE 6

**Higher education R&D expenditures at institutions in both survey populations, by state, institutional control, system, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures
Fielding Graduate U.	843
High Tech High Graduate School of Ed.	5,032
La Sierra U.	1,517
Loma Linda U.	14,029
Loyola Marymount U.	12,819
Marshall B. Ketchum U.	1,351 i
Mills C.	850
Occidental C.	3,587
Palo Alto U.	428
Pepperdine U.	2,655
Point Loma Nazarene U.	505
Santa Clara U.	3,142
Scripps Research Institute	485,435
Southern California U. of Health Sciences	418
Stanford U.	1,274,483
The Claremont Colleges	19,348
Claremont Graduate U.	7,235
Claremont McKenna C.	4,515
Claremont School of Theology	464 i
Harvey Mudd C.	2,359
Keck Graduate Institute	2,254 i
Pitzer C.	225
Pomona C.	2,146
Scripps C.	150 i
Touro C. and U. System <sup>a</sup>	3,489
Touro U.	3,489
U. of the Pacific	1,371
U. San Diego	7,580
U. San Francisco	1,375
U. Southern California	955,565
Western U. of Health Sciences	6,688
Westmont C.	295
Whittier C.	300
Colorado	1,749,249
Public	1,704,555
Colorado Mesa U.	823
Colorado School of Mines	81,443
Colorado State U. System	450,187
Colorado State U., Fort Collins	447,197
Colorado State U., Pueblo	2,990
Fort Lewis C.	1,926
Metropolitan State U. of Denver	416
U. Colorado System	1,133,956
U. Colorado Anschutz Medical Campus <sup>b</sup>	562,855
U. Colorado Boulder	547,724
U. Colorado Colorado Springs	5,338
U. Colorado Denver <sup>b</sup>	18,039
U. Northern Colorado	3,159
U.S. Air Force Academy	32,086

TABLE 6

**Higher education R&D expenditures at institutions in both survey populations, by state, institutional control, system, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures
Western Colorado U.	559
Private	44,694
Colorado C.	5,467
Regis U.	476
U. Denver	38,751
Connecticut	1,496,303
Public	311,547
Connecticut State U. System	9,063
Central Connecticut State U.	1,314
Eastern Connecticut State U.	1,646
Southern Connecticut State U.	5,750
Western Connecticut State U.	353
U. Connecticut	302,329
U.S. Coast Guard Academy	155
Private	1,184,756
Connecticut C.	1,244
Fairfield U.	849
Hartford International U. for Religion and Peace	512
Quinnipiac U.	926
Sacred Heart U.	972
Trinity C., Hartford	1,775
U. Hartford	1,252
U. New Haven	4,069
Wesleyan U.	8,009
Yale U.	1,165,148
Delaware	254,725
Public	254,725
Delaware State U.	23,193
U. Delaware	231,532
District of Columbia	717,928
Public	11,890
National Defense U.	3,786
U. of the District of Columbia	8,104
Private	706,038
American U.	65,912
Catholic U. of America	35,548
Gallaudet U.	6,126
George Washington U.	266,108
Georgetown U.	279,932
Howard U.	52,412
Florida	2,774,759
Public (State U. Florida Board of Governors)	2,326,968
Florida A&M U.	47,124
Florida Atlantic U.	58,471
Florida Gulf Coast U.	8,197
Florida International U.	246,075
Florida Polytechnic U.	1,269
Florida State U.	328,604
New C. Florida	960



TABLE 6

**Higher education R&D expenditures at institutions in both survey populations, by state, institutional control, system, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures
U. Central Florida	218,596
U. Florida	959,965
U. North Florida	15,782
U. South Florida <sup>c</sup>	405,088
U. West Florida	36,837
Private	447,791
Barry U.	343
Bethune-Cookman U.	928
Eckerd C.	367
Embry-Riddle Aeronautical U.	19,830
Florida Institute of Technology	23,195
Jacksonville U.	460
Keiser U.	443
Nova Southeastern U.	24,513
Rollins C.	533
St. Thomas U.	176
Stetson U.	611
U. Miami	375,841
U. Tampa	551
Georgia	2,953,221
Public (U. System Georgia Board of Regents)	1,998,880
Albany State U.	880
Augusta U.	116,480
Clayton State U.	616
Columbus State U.	206
Fort Valley State U.	4,842
Georgia C. and State U.	247
Georgia Gwinnett C.	489
Georgia Institute of Technology	1,114,481
Georgia Southern U.	37,201
Georgia State U.	206,472
Kennesaw State U.	18,880
Savannah State U.	1,804
U. Georgia	493,944
U. North Georgia	1,415
U. West Georgia	500
Valdosta State U.	423
Private	954,341
Agnes Scott C.	351
Berry C.	371
Clark Atlanta U.	8,892
Emory U.	852,922
Life U.	364
Mercer U.	51,989
Morehouse C.	4,533
Morehouse School of Medicine	32,637
Spelman C.	2,282
Hawaii	294,913
Public (U. Hawaii System)	293,064

TABLE 6

**Higher education R&D expenditures at institutions in both survey populations, by state, institutional control, system, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures
U. Hawaii, Hilo	7,411
U. Hawaii, Manoa	271,768
U. Hawaii, Maui C.	967
U. Hawaii, system office	12,918
Private	1,849
Hawaii Pacific U.	1,849
Idaho	166,756
Public	166,314
Boise State U.	46,065
Idaho State U.	13,953
Lewis-Clark State C.	401
U. Idaho	105,895
Private	442
Northwest Nazarene U.	442
Illinois	2,919,640
Public	1,286,911
Chicago State U.	2,414
Eastern Illinois U.	529
Governors State U.	391
Illinois State U.	24,152
Northeastern Illinois U.	1,913
Northern Illinois U.	25,261
Southern Illinois U. System	65,254
Southern Illinois U., Carbondale	47,210
Southern Illinois U., Edwardsville	18,044
U. Illinois System	1,163,465
U. Illinois, Chicago	429,585
U. Illinois, Springfield	2,612
U. Illinois, Urbana-Champaign	731,268
Western Illinois U.	3,532
Private	1,632,729
Augustana C.	271
Bradley U.	416
DePaul U.	6,675
Elmhurst U.	464
Erikson Institute	1,723
Illinois C. of Optometry	490
Illinois Institute of Technology	29,698
Lake Forest C.	267
Loyola U., Chicago	44,036
Midwestern U.	10,961
Northwestern U.	913,178
Rosalind Franklin U. of Medicine and Science	13,805
Rush U.	107,398
Toyota Technological Institute, Chicago	4,967
U. Chicago	497,651
Wheaton C., Wheaton	729
Indiana	1,705,277
Public	1,460,724

TABLE 6

**Higher education R&D expenditures at institutions in both survey populations, by state, institutional control, system, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures
Ball State U.	8,826
Indiana State U.	1,042
Indiana U.	763,071
Indiana U., Bloomington	695,258
Indiana U., Kokomo	441
Indiana U., Northwest	553
Indiana U., South Bend	898
Indiana U., Southeast	591
Indiana U.-Purdue U., Indianapolis	65,330
Purdue U.	687,624
Purdue U., Fort Wayne	2,495
Purdue U., Northwest	5,647
Purdue U., West Lafayette	679,482
U. Southern Indiana	161
Private	244,553
Butler U.	1,071
DePauw U.	304
Earlham C.	287
Indiana Wesleyan U.	878
Manchester U.	266
Taylor U.	214
U. Evansville	284
U. Notre Dame	240,324
Valparaiso U.	925
Iowa	932,572
Public (Iowa Board of Regents)	917,410
Iowa State U.	360,275
U. Iowa	553,876
U. Northern Iowa	3,259
Private	15,162
Coe C.	538
Cornell C.	464
Des Moines U.	5,258
Dordt U.	696
Drake U.	1,488
Grinnell C.	4,122
Luther C.	363
Palmer C. of Chiropractic	2,233
Palmer C. of Chiropractic, Davenport	2,233
Kansas	785,641
Public (Kansas Board of Regents)	785,641
Emporia State U.	586
Fort Hays State U.	800
Kansas State U.	203,846
Pittsburg State U.	2,730
U. Kansas	385,637
Wichita State U.	192,042
Kentucky	655,555
Public (Kentucky Council on Postsecondary Education)	655,290

TABLE 6

**Higher education R&D expenditures at institutions in both survey populations, by state, institutional control, system, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures
Eastern Kentucky U.	986
Kentucky State U.	8,756
Morehead State U.	1,754
Murray State U.	3,844
Northern Kentucky U.	3,403
U. Kentucky	429,241
U. Louisville	200,362
Western Kentucky U.	6,944
Private	265
Centre C.	265
Louisiana	833,237
Public (State of Louisiana Board of Regents)	612,228
Louisiana State U. System	366,105
Louisiana State U., Baton Rouge	296,673
Louisiana State U., Health Sciences Center, New Orleans	44,370
Louisiana State U., Health Sciences Center, Shreveport	24,600
Louisiana State U., Shreveport	462
Southern U. System	11,404
Southern U. and A&M C., Agricultural Research and Extension Center	6,164
Southern U. and A&M C., Baton Rouge	4,943
Southern U., New Orleans	297
U. Louisiana System	234,719
Grambling State U.	2,124
Louisiana Tech U.	27,417
McNeese State U.	664
Nicholls State U.	551
Northwestern State U. Louisiana	1,663
Southeastern Louisiana U.	1,723
U. Louisiana, Lafayette	181,400
U. Louisiana, Monroe	2,198
U. New Orleans	16,979
Private	221,009
Dillard U.	2,528
Loyola U., New Orleans	476
Tulane U.	205,206
Xavier U. Louisiana	12,799
Maine	166,220
Public	153,277
U. Maine System	153,277
U. Maine	146,801
U. Maine Farmington	996
U. Southern Maine	5,480
Private	12,943
Bates C.	2,620
Bowdoin C.	2,417
Colby C.	1,672
U. New England	6,234
Maryland	4,916,421
Public	1,733,519

TABLE 6

**Higher education R&D expenditures at institutions in both survey populations, by state, institutional control, system, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures
Morgan State U.	20,628
St. Mary's C. Maryland	349
U. System Maryland	1,317,234
Bowie State U.	1,398
Coppin State U.	299
Salisbury U.	10,552
Towson U.	3,794
U. Baltimore	14,672
U. Maryland <sup>d</sup>	1,142,264
U. Maryland Center for Environmental Science	51,201
U. Maryland, Baltimore County	84,418
U. Maryland, Eastern Shore	8,636
U.S. Naval Academy	10,818
Uniformed Services U. of the Health Sciences	384,490
Private	3,182,902
Goucher C.	255
Johns Hopkins U. <sup>e</sup>	3,181,385
Loyola U., Maryland	628
Maryland Institute C. of Art	634
Massachusetts	4,577,024
Public	754,785
Massachusetts System of Public Higher Education	2,923
Bridgewater State U.	522
Framingham State U.	2,401
U. Massachusetts System	751,862
U. Massachusetts, Amherst	213,824
U. Massachusetts, Boston	63,723
U. Massachusetts, central office	3,541
U. Massachusetts, Dartmouth	28,729
U. Massachusetts, Lowell	94,708
U. Massachusetts, Medical School	347,337
Private	3,822,239
Amherst C.	4,636
Babson C.	1,286
Bentley U.	1,430
Boston C.	65,156
Boston U.	652,096
Brandeis U.	107,549
C. of the Holy Cross	445
Clark U.	7,931
Emerson C.	581
Franklin W. Olin C. of Engineering	1,627
Harvard U.	1,254,008
Hult International Business School	953
Massachusetts Institute of Technology	949,076
MCPHS U.	346
Merrimack C.	407
MGH Institute of Health Professions	3,037
Mount Holyoke C.	2,026

TABLE 6

**Higher education R&D expenditures at institutions in both survey populations, by state, institutional control, system, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures
New England C. of Optometry	1,978
Northeastern U.	211,342
Simmons U.	487
Smith C.	4,085
Stonehill C.	695
Suffolk U.	2,043
Tufts U.	224,956
Wellesley C.	6,252
Western New England U.	1,973
Wheaton C., Norton	186
Williams C.	4,902 i
Woods Hole Oceanographic Institution	262,048
Worcester Polytechnic Institute	48,702
<b>Michigan</b>	<b>2,845,171</b>
Public	2,762,495
Central Michigan U.	21,726
Eastern Michigan U.	7,233
Ferris State U.	853
Grand Valley State U.	6,809
Lake Superior State U.	1,226
Michigan State U.	710,178
Michigan Technological U.	81,715
Northern Michigan U.	1,364
Oakland U.	20,261
Saginaw Valley State U.	2,428 i
U. Michigan	1,647,869
U. Michigan, Ann Arbor	1,639,645
U. Michigan, Dearborn	7,472
U. Michigan, Flint	752
Wayne State U.	235,519
Western Michigan U. and Homer Stryker M.D. School of Medicine	25,314
Private	82,676
Albion C.	1,127 i
Andrews U.	802
Calvin U.	1,490 i
Hope C.	5,211
Kalamazoo C.	600 i
Kettering U.	1,315
Lawrence Technological U.	1,764
U. Detroit Mercy	4,578
Van Andel Research Institute	65,789
<b>Minnesota</b>	<b>1,121,083</b>
Public	1,103,486
Minnesota State Colleges and Universities System	5,173
Metropolitan State U.	162 i
Minnesota State U., Mankato	2,170
Minnesota State U., Moorhead	462
St. Cloud State U.	2,379
U. Minnesota	1,098,313

TABLE 6

**Higher education R&D expenditures at institutions in both survey populations, by state, institutional control, system, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures	
U. Minnesota, Duluth	23,767	
U. Minnesota, Morris	855	
U. Minnesota, Rochester	730	
U. Minnesota, Twin Cities	1,072,961	
Private	17,597	
Augsburg U.	815	
C. of Saint Benedict	1,064	i
Carleton C.	3,800	
Concordia C., Moorhead	308	
Gustavus Adolphus C.	953	
Hamline U.	493	
Macalester C.	1,280	
Saint John's U.	1,125	i
Saint Mary's U. Minnesota	640	
St. Catherine U.	1,157	
St. Olaf C.	816	
U. of St. Thomas (MN)	5,146	
Mississippi	492,437	
Public (Mississippi State Institutions of Higher Learning)	489,709	
Alcorn State U.	14,188	
Delta State U.	238	
Jackson State U.	16,157	
Mississippi State U.	275,143	
Mississippi Valley State U.	391	
U. Mississippi	116,175	
U. Southern Mississippi	67,417	
Private	2,728	
Millsaps C.	636	
Tougaloo C.	2,092	i
Missouri	1,585,237	
Public (Missouri Department of Higher Education)	510,702	
Lincoln U., Jefferson City	7,621	
Missouri State U.	10,014	
Missouri Western State U.	214	
Northwest Missouri State U.	190	
Southeast Missouri State U.	228	
Truman State U.	237	
U. Central Missouri	495	
U. Missouri System	491,703	
Missouri U. of Science and Technology	54,437	
U. Missouri, Columbia	388,779	
U. Missouri, Kansas City	33,855	
U. Missouri, Saint Louis	14,632	
Private	1,074,535	
A. T. Still U. of Health Sciences	448	
Graduate School of the Stowers Institute for Medical Research	555	
Saint Louis U.	79,005	
U. of Health Sciences and Pharmacy in St. Louis	5,313	
Washington U., Saint Louis	989,214	

TABLE 6

**Higher education R&D expenditures at institutions in both survey populations, by state, institutional control, system, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures
Montana	331,571
Public (Montana U. System)	331,571
Montana State U.	194,471
Montana State U., Billings	522
Montana State U., Bozeman	193,577
Montana State U., Northern	372
Salish Kootenai C.	596
U. Montana	136,504
Montana Technological U.	14,933
U. Montana, Missoula	121,571
Nebraska	575,986
Public	551,559
U. Nebraska System	551,559
U. Nebraska, central administration	21,295
U. Nebraska, Kearney	3,201
U. Nebraska, Lincoln	307,083
U. Nebraska, Medical Center	200,974
U. Nebraska, Omaha	19,006
Private	24,427
Creighton U.	23,251
Doane U.	1,176 <sup>i</sup>
Nevada	310,094
Public (Nevada System of Higher Education)	304,109
C. Southern Nevada	335
Desert Research Institute	26,365
Nevada State C.	1,014
U. Nevada, Las Vegas	101,009
U. Nevada, Reno	175,386
Private	5,985
Roseman U. of Health Sciences	5,985
New Hampshire	500,836
Public (U. System of New Hampshire)	170,610
Keene State C.	919
Plymouth State U.	2,318
U. New Hampshire	167,373
Private	330,226
Dartmouth C. and Dartmouth Hitchcock Medical Center	330,226
New Jersey	1,353,987
Public	898,526
C. New Jersey	1,912
Kean U.	3,538
Montclair State U.	17,390
New Jersey City U.	169
New Jersey Institute of Technology	166,587
Ramapo C. New Jersey	408
Rowan U.	26,458
Rutgers, the State U. of New Jersey	672,951
Rutgers, State U. New Jersey, Camden	5,142
Rutgers, State U. New Jersey, New Brunswick	643,955



TABLE 6

**Higher education R&D expenditures at institutions in both survey populations, by state, institutional control, system, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures
Rutgers, State U. New Jersey, Newark	23,854
Stockton U.	1,246
William Paterson U.	7,867
Private	455,461
Fairleigh Dickinson U.	318
Monmouth U.	1,667
Princeton U.	404,448
Rider U.	322
Seton Hall U.	5,320
Stevens Institute of Technology	43,386
New Mexico	473,725
Public (New Mexico Higher Education Department)	473,725
Eastern New Mexico U., Portales	355
New Mexico Highlands U.	1,129
New Mexico Institute of Mining and Technology	28,745
New Mexico State U.	110,580
Northern New Mexico C.	350
U. New Mexico	332,566
New York	7,589,695
Public	1,722,759
CUNY System	174,472
CUNY, Advanced Science Research Center	15,403
CUNY, Baruch C.	2,521
CUNY, Brooklyn C.	6,318
CUNY, C. Staten Island	2,860
CUNY, City C.	57,361
CUNY, Graduate Center	4,265
CUNY, Graduate School of Public Health and Health Policy	15,035
CUNY, Hunter C.	33,816
CUNY, John Jay C. of Criminal Justice	11,791
CUNY, Lehman C.	4,181
CUNY, Medgar Evers C.	694
CUNY, New York City C. of Technology	1,367
CUNY, Queens C.	16,063
CUNY, system office	1,664
CUNY, York C.	1,133
SUNY System	1,528,591
SUNY, Binghamton U.	124,565
SUNY, Buffalo State	1,962
SUNY, C. Brockport	1,114
SUNY, C. Cortland	381
SUNY, C. of Environmental Science and Forestry	28,440
SUNY, C. of Optometry	3,460
SUNY, C. of Technology, Canton	1,794
SUNY, C. Old Westbury	155
SUNY, C. Plattsburgh	1,280
SUNY, Cobleskill	1,106
SUNY, Delhi	201
SUNY, Downstate Health Sciences U.	34,459

TABLE 6

**Higher education R&D expenditures at institutions in both survey populations, by state, institutional control, system, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures
SUNY, Empire State C.	248
SUNY, Farmingdale State C.	606
SUNY, Geneseo	2,070
SUNY, Morrisville	155
SUNY, New Paltz	329
SUNY, Oneonta	214
SUNY, Oswego	1,003
SUNY, Polytechnic Institute	465,273
SUNY, Potsdam	540
SUNY, Stony Brook U.	274,516
SUNY, U. Albany	114,501
SUNY, U. Buffalo	425,349
SUNY, Upstate Medical U.	44,870
U.S. Military Academy	19,696
Private	5,866,936
Adelphi U.	2,157
Albany C. of Pharmacy and Health Sciences	3,687
Albany Medical C.	22,443
Albert Einstein C. of Medicine	301,715
Alfred U.	2,660
Bard C.	248
Barnard C.	4,632
Canisius C.	1,036
Clarkson U.	16,765
Cold Spring Harbor Laboratory	114,903
Colgate U.	3,306
Columbia U. in the City of New York	1,098,570
Cooper Union	545
Cornell U.	1,183,524
D'Youville C.	306
Fordham U.	16,731
Hamilton C.	1,747
Hobart and William Smith Colleges	1,941
Hofstra U.	5,545
Icahn School of Medicine at Mount Sinai	820,260
Iona C.	411
Ithaca C.	1,030
Long Island U.	15,059
Manhattan C.	1,864
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	3,776
New School	14,281
New York Institute of Technology	4,465
New York U.	1,063,704
Niagara U.	509
Northeast C. of Health Sciences	184
Pace U.	3,649
Pratt Institute	2,547
Rensselaer Polytechnic Institute	119,056
Rochester Institute of Technology	56,043

TABLE 6

**Higher education R&D expenditures at institutions in both survey populations, by state, institutional control, system, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures
Rockefeller U.	357,543
Siena C.	923
Skidmore C.	2,335
St. Bonaventure U.	378
St. John's U., New York	2,940
Syracuse U.	151,717
Teachers C., Columbia U.	24,335
Touro C. and U. System <sup>a</sup>	19,291
New York Medical C.	18,872
Touro C.	419
U. Rochester	409,255
Union C., Schenectady	1,396
Utica C.	466
Vassar C.	1,606
Yeshiva U.	5,452
North Carolina	3,504,186
Public (U. North Carolina)	1,995,325
Appalachian State U.	4,509
East Carolina U.	51,662
Elizabeth City State U.	1,717
Fayetteville State U.	3,933
North Carolina Agricultural and Technical State U.	40,751
North Carolina Central U.	14,105
North Carolina State U.	547,118
U. North Carolina, Asheville	4,844
U. North Carolina, Chapel Hill	1,205,883
U. North Carolina, Charlotte	51,877
U. North Carolina, general administration	4,024
U. North Carolina, Greensboro	37,033
U. North Carolina, Pembroke	243
U. North Carolina, Wilmington	16,656
Western Carolina U.	2,847
Winston-Salem State U.	8,123
Private	1,508,861
Davidson C.	2,466
Duke U.	1,237,686
Elon U.	2,032
Johnson C. Smith U.	2,461
Wake Forest U.	264,216
North Dakota	309,143
Public (North Dakota U. System)	308,702
Mayville State U.	634
Minot State U.	512
North Dakota State U.	164,050
U. North Dakota	143,506
Private	441
United Tribes Technical C.	441
Ohio	2,791,963
Public	2,171,167

i

TABLE 6

**Higher education R&D expenditures at institutions in both survey populations, by state, institutional control, system, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures	
Air Force Institute of Technology	45,703	
U. System Ohio Board of Regents	2,125,464	
Bowling Green State U.	18,619	
Central State U.	8,751	
Cleveland State U.	71,451	
Kent State U.	50,408	
Miami U.	25,138	
Northeast Ohio Medical U.	13,853	
Ohio State U.	1,236,111	
Ohio U.	49,764	
U. Akron	17,340	
U. Cincinnati	551,826	
U. Toledo	53,169	
Wright State U.	26,259	
Youngstown State U.	2,775	
Private	620,796	
Baldwin Wallace U.	210	
C. Wooster	1,071	i
Case Western Reserve U.	421,868	
Denison U.	724	i
Heidelberg U.	1,725	
John Carroll U.	374	
Kenyon C.	1,500	
Oberlin C.	776	
Ohio Northern U.	471	
Ohio Wesleyan U.	404	
U. Dayton	191,228	
Wittenberg U.	445	
Oklahoma	623,716	
Public (Oklahoma State System of Higher Education)	607,267	
Oklahoma Agricultural and Mechanical Colleges	212,902	
Langston U.	6,345	
Oklahoma State U., Center for Health Sciences	7,758	
Oklahoma State U., Stillwater	198,799	
Regional University System of Oklahoma	7,132	
East Central U.	242	
Northeastern State U.	279	
Southwestern Oklahoma State U.	614	
U. Central Oklahoma	5,997	i
U. Oklahoma	387,233	
U. Oklahoma, Norman and Health Science Center	380,048	
U. Oklahoma, Tulsa	7,185	
Private	16,449	
U. Tulsa	16,449	
Oregon	931,008	
Public	915,281	
Eastern Oregon U.	162	
Oregon Health and Science U.	452,812	
Oregon Institute of Technology	4,314	

TABLE 6

**Higher education R&D expenditures at institutions in both survey populations, by state, institutional control, system, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures
Oregon State U.	276,955
Portland State U.	41,311
Southern Oregon U.	534
U. Oregon	139,193
Private	15,727
Lewis and Clark C.	2,281
Linfield U.	239
National U. of Natural Medicine	850
Pacific U.	4,690
Reed C.	5,132
U. Portland	718
Willamette U.	1,817
Pennsylvania	4,950,468
Public	2,435,902
Pennsylvania State System of Higher Education	13,919
Bloomsburg U. Pennsylvania	348
East Stroudsburg U. Pennsylvania	1,440
Indiana U. Pennsylvania	6,180
Kutztown U. Pennsylvania	292
Millersville U. Pennsylvania	931
Slippery Rock U. Pennsylvania	295
West Chester U. Pennsylvania	4,433
Pennsylvania State U.	982,127
Pennsylvania State U., Abington	369
Pennsylvania State U., Altoona	678
Pennsylvania State U., Behrend	5,509
Pennsylvania State U., Berks	382
Pennsylvania State U., Great Valley School of Graduate Professional Studies	927
Pennsylvania State U., Greater Allegheny	216
Pennsylvania State U., Harrisburg	2,938
Pennsylvania State U., Lehigh Valley	162
Pennsylvania State U., New Kensington	152
Pennsylvania State U., Wilkes-Barre	250
Pennsylvania State U., University Park and Hershey Medical Center	970,544
Temple U.	299,778
U. Pittsburgh	1,135,416
U. Pittsburgh, Pittsburgh	1,135,416
U.S. Army War C.	4,662
Private	2,514,566
Arcadia U.	889
Bryn Athyn C.	316
Bryn Mawr C.	8,987
Bucknell U.	4,476
Carnegie Mellon U.	402,376
Delaware Valley U.	182
Dickinson C.	767
Drexel U.	152,752
Duquesne U.	10,521
Franklin and Marshall C.	3,722

TABLE 6

**Higher education R&D expenditures at institutions in both survey populations, by state, institutional control, system, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures	
Gannon U.	972	
Gettysburg C.	648	
Haverford C.	3,835	
Juniata C.	380	
La Salle U.	829	
Lafayette C.	1,015	
Lake Erie C. of Osteopathic Medicine	502	
Lehigh U.	41,279	
Mercyhurst U.	1,937	i
Moravian C.	255	
Muhlenberg C.	288	
Philadelphia C. of Osteopathic Medicine	6,186	
Saint Francis U.	872	
Saint Joseph's U.	2,922	
Salus U.	677	
Susquehanna U.	360	
Swarthmore C.	3,296	
Thomas Jefferson U.	200,393	
U. of the Sciences Philadelphia	4,005	
U. Pennsylvania	1,631,950	
U. Scranton	630	
Ursinus C.	835	
Villanova U.	24,723	
Widener U., Chester	417	
Wilkes U.	372	
Rhode Island	426,721	
Public	145,828	
Naval War C.	5,542	
Rhode Island Board of Governors for Higher Education	140,286	
Rhode Island C.	10,990	
U. Rhode Island	129,296	
Private	280,893	
Brown U.	276,331	
Bryant U.	347	
Providence C.	766	
Rhode Island School of Design	971	i
Roger Williams U.	1,854	
Salve Regina U.	624	
South Carolina	756,005	
Public	751,520	
C. Charleston	6,361	
Citadel Military C. South Carolina	2,054	
Clemson U.	237,485	
Coastal Carolina U.	2,245	
Francis Marion U.	207	
Medical U. South Carolina	277,761	
South Carolina State U.	3,933	i
U. South Carolina	218,888	
U. South Carolina Upstate	496	

TABLE 6

**Higher education R&D expenditures at institutions in both survey populations, by state, institutional control, system, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures
U. South Carolina, Aiken	2,042
U. South Carolina, Beaufort	976
U. South Carolina, Columbia	215,374
Winthrop U.	2,586
Private	4,485
Benedict C.	745
Clafin U.	1,015
Converse C.	294
Furman U.	2,431
South Dakota	101,197
Public	100,184
Oglala Lakota C.	473
South Dakota Board of Regents	99,711
Black Hills State U.	1,280
Dakota State U.	3,416
Northern State U.	190
South Dakota School of Mines and Technology	15,746
South Dakota State U.	51,542
U. South Dakota	27,537
Private	1,013
Augustana U.	1,013
Tennessee	1,630,727
Public	590,305
Tennessee Board of Regents System	153,079
Austin Peay State U.	2,740
East Tennessee State U.	18,449
Middle Tennessee State U.	22,531
Tennessee State U.	26,880
Tennessee Technological U.	15,387
U. Memphis	67,092
U. Tennessee System	437,226
U. Tennessee, Chattanooga	11,192
U. Tennessee, Health Science Center	109,562
U. Tennessee, Knoxville	316,273
U. Tennessee, Martin	199
Private	1,040,422
Fisk U.	4,320
Lipscomb U.	321
Meharry Medical C.	15,840
Sewanee: U. of the South	668
Vanderbilt U. and Vanderbilt U. Medical Center	1,019,273
Texas	6,855,976
Public	5,804,489
Midwestern State U.	882
Stephen F. Austin State U.	3,204
Texas A&M U. System	1,256,721
Prairie View A&M U.	17,582
Tarleton State U.	17,729
Texas A&M International U.	3,740

i

TABLE 6

**Higher education R&D expenditures at institutions in both survey populations, by state, institutional control, system, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures
Texas A&M U., College Station and Health Science Center	1,147,720
Texas A&M U.-Central Texas	814
Texas A&M U.-Commerce	3,827
Texas A&M U.-Corpus Christi	30,500
Texas A&M U.-Kingsville	23,578
Texas A&M U.-San Antonio	1,311
West Texas A&M U.	9,920
Texas Southern U.	9,128
Texas State U. System	92,702
Lamar U.	4,734
Sam Houston State U.	13,315
Sul Ross State U.	2,143 <sup>i</sup>
Texas State U.	72,510
Texas Tech U. System	251,625
Angelo State U.	943
Texas Tech U.	197,739
Texas Tech U., Health Sciences Center	41,583
Texas Tech U., Health Sciences Center, El Paso	11,360
Texas Woman's U.	4,943
U. Houston System	206,593
U. Houston	202,536
U. Houston system administration	513
U. Houston-Clear Lake	1,716
U. Houston-Downtown	1,828
U. North Texas System	131,950
U. North Texas, Denton	81,252
U. North Texas, Health Science Center	50,698
U. Texas System	3,846,741
U. Texas Health Science Center, Houston	308,823
U. Texas Health Science Center, San Antonio	219,734
U. Texas Health Science Center, Tyler	27,928
U. Texas M. D. Anderson Cancer Center	1,124,971
U. Texas Medical Branch	185,759
U. Texas of the Permian Basin	3,504
U. Texas Rio Grande Valley	58,187
U. Texas Southwestern Medical Center	632,134
U. Texas, Arlington	126,477
U. Texas, Austin	779,348
U. Texas, Dallas	122,825
U. Texas, El Paso	109,410
U. Texas, San Antonio	145,362
U. Texas, Tyler	2,279
Private	1,051,487
Abilene Christian U.	4,597
Austin C.	302
Baylor C. of Medicine	716,976
Baylor U.	48,809
LeTourneau U.	346
McMurry U.	296



TABLE 6

**Higher education R&D expenditures at institutions in both survey populations, by state, institutional control, system, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures
Parker U.	190
Rice U.	207,404
Southern Methodist U.	41,960
Southwestern U.	408
St. Edward's U.	9,527
Texas Chiropractic C.	200
Texas Christian U.	15,336
Trinity U.	2,905
U. Dallas	249
U. of the Incarnate Word	1,982
Utah	996,625
Public (Utah System of Higher Education)	952,709
Southern Utah U.	773
U. Utah	624,737
Utah State U.	325,223
Utah Valley U.	1,154
Weber State U.	822
Private	43,916
Brigham Young U., Provo	43,916
Vermont	200,013
Public	195,320
U. Vermont	195,320
Private	4,693
Middlebury C.	2,927
Norwich U.	890
Saint Michael's C.	876
Virginia	1,946,364
Public	1,921,151
Christopher Newport U.	2,656
Eastern Virginia Medical School	19,415
George Mason U.	214,207
James Madison U.	14,687
Longwood U.	544
Norfolk State U.	4,316
Old Dominion U.	62,332
Radford U.	832
U. of Mary Washington	1,123
U. Virginia's C. Wise	3,310
U. Virginia, Charlottesville	611,313
Virginia Commonwealth U.	364,096
Virginia Military Institute	1,351
Virginia Polytechnic Institute and State U.	542,045
Virginia State U.	10,123
William & Mary	68,801
Private	25,213
Eastern Mennonite U.	233
Edward Via C. of Osteopathic Medicine	6,629
Hampton U.	11,669
Liberty U.	937

TABLE 6

**Higher education R&D expenditures at institutions in both survey populations, by state, institutional control, system, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures
Marymount U.	2,307
Roanoke C.	738
U. Lynchburg	150 i
U. Richmond	2,294
Washington and Lee U.	256
Washington	1,886,061
Public	1,880,265
Central Washington U.	2,410
Eastern Washington U.	1,921
Evergreen State C.	783
Northwest Indian C.	2,806 i
U. Washington	1,501,247
U. Washington, Bothell	8,311
U. Washington, Seattle	1,488,645
U. Washington, Tacoma	4,291
Washington State U.	357,648
Western Washington U.	13,450
Private	5,796
Gonzaga U.	212
Pacific Lutheran U.	370
Saint Martin's U.	299
Seattle Pacific U.	683
Seattle U.	1,562
U. Puget Sound	1,233
Whitman C.	1,034
Whitworth U.	403
West Virginia	239,076
Public (West Virginia Higher Education Policy Commission)	232,591
Bluefield State C.	506
Marshall U.	23,620
West Liberty U.	738
West Virginia School of Osteopathic Medicine	1,255
West Virginia State U.	6,565
West Virginia U.	199,907
Private	6,485
Future Generations U.	270 i
U. Charleston	6,215
Wisconsin	1,774,267
Public (U. Wisconsin System)	1,454,439
U. Wisconsin-Eau Claire	1,852
U. Wisconsin-Green Bay	1,879
U. Wisconsin-La Crosse	3,001
U. Wisconsin-Madison	1,380,075
U. Wisconsin-Milwaukee	55,664
U. Wisconsin-Oshkosh	1,656
U. Wisconsin-Platteville	1,144 i
U. Wisconsin-River Falls	999
U. Wisconsin-Stevens Point	4,401
U. Wisconsin-Stout	406

TABLE 6

**Higher education R&D expenditures at institutions in both survey populations, by state, institutional control, system, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures
U. Wisconsin-Superior	2,602
U. Wisconsin-Whitewater	760
Private	319,828
Alverno C.	215
Concordia U., Wisconsin	439
Lawrence U.	536
Marquette U.	37,087
Medical C. Wisconsin	276,850
Milwaukee School of Engineering	3,193
Northland C.	1,096 <sup>i</sup>
St. Norbert C.	412
Wyoming	93,202
Public (Wyoming Department of Education)	93,202
U. Wyoming	93,202
American Samoa	815
Public	815
American Samoa Community C.	815
Guam	17,666
Public (U. Guam Board of Regents)	17,666
U. Guam	17,666
Puerto Rico	128,036
Public (U. Puerto Rico)	95,796
U. Puerto Rico, Aguadilla	639
U. Puerto Rico, Cayey	1,881
U. Puerto Rico, Humacao	1,321
U. Puerto Rico, Mayaguez	18,368
U. Puerto Rico, Medical Sciences Campus	44,111
U. Puerto Rico, Ponce	580
U. Puerto Rico, Rio Piedras	28,896
Private	32,240
Albizu U.	428
Ana G. Mendez U. System	2,915
U. Ana G. Mendez, Carolina	602
U. Ana G. Mendez, Cupey	739
U. Ana G. Mendez, Gurabo	1,574
Polytechnic U. Puerto Rico	821
Ponce Health Sciences U.	23,297
Pontifical Catholic U. Puerto Rico, Ponce	350
San Juan Bautista School of Medicine	598
U. Central del Caribe	3,831
Virgin Islands	15,231
Public	15,231
U. of the Virgin Islands	15,231

i = imputed.

<sup>a</sup> The Touro College and University System is a private higher education institution with campuses in the states of California, Nevada, and New York. FY 2021 research expenditures across all campuses total \$24,127 thousand.

<sup>b</sup> The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

<sup>c</sup> The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg;

and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

<sup>d</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

<sup>e</sup> Johns Hopkins University includes the Applied Physics Laboratory, with \$1,949,752 thousand in total R&D expenditures in FY 2021.

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2021.

TABLE 7

**Total and federally financed higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
All institutions	-	79,173,538	83,642,841	86,444,902	89,872,007	41,934,743	44,539,670	46,196,287	49,228,127
Johns Hopkins U. <sup>a</sup>	1	2,661,033	2,917,436	3,110,494	3,181,385	2,251,097	2,482,130	2,682,410	2,774,643
U. California, San Francisco	2	1,595,732	1,595,098	1,651,073	1,710,036	669,470	671,047	676,331	683,179
U. Michigan, Ann Arbor	3	1,600,869	1,675,805	1,673,862	1,639,645	849,123	886,851	884,880	891,125
U. Pennsylvania	4	1,441,931	1,506,285	1,579,364	1,631,950	688,313	717,359	721,308	792,089
U. Washington, Seattle	5	1,413,902	1,425,601	1,456,902	1,488,645	989,221	992,643	1,024,195	1,046,377
U. California, Los Angeles	6	1,318,110	1,306,376	1,392,941	1,454,880	576,076	600,714	655,030	721,043
U. California, San Diego	7	1,265,196	1,353,763	1,403,735	1,425,499	635,888	698,925	727,289	801,117
U. Wisconsin-Madison	8	1,205,518	1,297,331	1,363,931	1,380,075	574,048	608,925	632,558	646,764
Stanford U.	9	1,157,597	1,204,116	1,203,950	1,274,483	711,443	738,957	751,414	811,183
Harvard U.	10	1,173,371	1,239,736	1,239,983	1,254,008	587,584	618,405	605,603	616,589
Duke U.	11	1,167,611	1,226,517	1,196,638	1,237,686	645,259	709,705	707,746	776,632
Ohio State U.	12	875,014	929,250	968,260	1,236,111	474,994	497,651	539,359	559,797
U. North Carolina, Chapel Hill	13	1,136,158	1,153,773	1,159,725	1,205,883	701,169	720,613	706,145	747,895
Cornell U.	14	1,071,621	1,144,534	1,190,063	1,183,524	470,020	525,182	562,021	592,359
Yale U.	15	990,399	1,072,309	1,094,135	1,165,148	552,242	576,776	585,170	647,656
Texas A&M U., College Station and Health Science Center	16	922,178	952,156	1,130,803	1,147,720	333,768	359,609	517,489	528,057
U. Maryland <sup>b</sup>	17	na	1,096,600	1,103,062	1,142,264	na	696,880	689,125	713,283
U. Pittsburgh, Pittsburgh	18	1,006,513	1,080,951	1,105,532	1,135,416	649,166	677,559	689,273	724,993
U. Texas M. D. Anderson Cancer Center	19	929,710	969,496	1,051,297	1,124,971	173,206	176,156	186,488	217,073
Georgia Institute of Technology	20	891,728	960,167	1,048,988	1,114,481	654,877	716,207	790,518	852,319
Columbia U. in the City of New York	21	947,504	1,003,615	1,032,909	1,098,570	686,338	736,536	762,289	831,648
U. Minnesota, Twin Cities	22	954,683	1,013,112	1,042,382	1,072,961	464,300	494,549	514,092	570,946
New York U.	23	887,558	934,720	947,293	1,063,704	416,143	436,850	448,850	547,027
Vanderbilt U. and Vanderbilt U. Medical Center	24	738,620	776,937	824,803	1,019,273	471,625	492,808	514,299	586,880
Washington U., Saint Louis	25	816,139	887,088	920,215	989,214	506,006	543,508	559,882	606,127
Pennsylvania State U., University Park and Hershey Medical Center	26	908,708	949,679	991,923	970,544	565,348	600,489	638,930	622,532
U. Florida	27	865,093	928,639	942,223	959,965	355,517	387,906	397,202	423,154
U. Southern California	28	891,625	909,683	941,198	955,565	501,893	543,607	562,120	574,185
Massachusetts Institute of Technology	29	964,336	1,009,466	987,968	949,076	479,654	489,345	488,741	483,526
Northwestern U.	30	805,672	857,069	874,671	913,178	469,525	502,300	531,654	572,975
Emory U.	31	712,417	794,928	808,792	852,922	393,647	424,461	452,636	515,940
U. California, Berkeley	32	796,505	802,931	840,000	846,872	329,464	347,601	349,989	354,478

TABLE 7

**Total and federally financed higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Icahn School of Medicine at Mount Sinai	33	640,141	722,241	747,014	820,260	398,656	443,745	480,452	554,582
U. California, Davis	34	788,832	804,282	816,693	817,409	360,018	374,707	380,965	373,719
U. Texas, Austin	35	679,781	696,111	797,199	779,348	405,131	407,981	500,409	489,827
U. Arizona	36	687,066	734,270	760,975	770,031	291,767	327,025	328,807	353,117
U. Illinois, Urbana-Champaign	37	652,709	677,523	689,176	731,268	353,710	382,206	387,853	406,612
Baylor C. of Medicine	38	623,396	651,920	685,641	716,976	300,098	309,354	315,101	365,472
Michigan State U.	39	715,290	725,708	713,197	710,178	328,618	331,148	329,748	349,889
Indiana U., Bloomington	40	566,907	668,157	710,850	695,258	249,243	308,586	319,039	326,326
Purdue U., West Lafayette	41	631,574	663,927	687,144	679,482	251,517	249,831	270,605	295,278
Arizona State U.	42	617,717	639,637	673,357	677,303	254,384	267,087	278,150	274,541
Boston U.	43	484,205	534,205	583,267	652,096	284,888	318,511	339,172	402,443
U. Alabama, Birmingham	44	588,207	607,863	618,226	644,330	373,360	398,403	400,110	423,290
Rutgers, State U. New Jersey, New Brunswick	45	706,282	657,249	688,077	643,955	350,912	297,609	311,743	339,015
U. Texas Southwestern Medical Center	46	474,260	496,697	595,939	632,134	197,910	203,544	242,679	257,611
U. Utah	47	552,306	601,133	607,061	624,737	307,844	302,585	314,023	340,434
U. Virginia, Charlottesville	48	551,761	613,938	652,002	611,313	250,168	276,335	300,348	297,273
U. Colorado Anschutz Medical Campus <sup>c</sup>	49	na	na	na	562,855	na	na	na	363,999
U. Iowa	50	511,973	508,353	538,583	553,876	246,117	252,563	259,639	283,763
U. Cincinnati	51	480,095	529,796	530,138	551,826	250,202	252,892	285,899	309,097
U. Colorado Boulder	52	514,573	513,822	525,674	547,724	391,817	412,691	427,869	459,816
North Carolina State U.	53	509,841	541,100	546,290	547,118	219,258	228,945	232,110	239,115
Virginia Polytechnic Institute and State U.	54	531,636	541,969	556,341	542,045	199,897	209,607	210,792	216,733
U. California, Irvine	55	426,610	448,967	490,597	523,752	201,173	217,094	241,734	255,010
U. Chicago	56	423,993	459,171	458,891	497,651	303,175	332,776	352,447	394,275
U. Georgia	57	453,249	477,536	482,786	493,944	148,543	159,948	171,351	188,451
Scripps Research Institute	58	396,839	427,734	444,964	485,435	267,088	267,122	243,502	272,181
SUNY, Polytechnic Institute	59	257,358	352,889	355,651	465,273	41,795	38,245	27,998	25,427
Oregon Health and Science U.	60	372,180	415,629	446,890	452,812	264,492	298,227	321,572	329,016
Colorado State U., Fort Collins	61	374,955	398,477	407,302	447,197	268,747	284,482	287,100	303,901
California Institute of Technology	62	391,003	399,931	449,651	438,624	280,451	287,198	316,519	293,197
U. Illinois, Chicago	63	361,690	382,949	412,147	429,585	196,840	208,603	223,030	237,949
U. Kentucky	64	393,034	410,581	417,674	429,241	171,672	192,945	200,664	220,703
SUNY, U. Buffalo	65	410,220	413,817	422,038	425,349	186,494	182,983	200,155	210,257
Case Western Reserve U.	66	434,441	438,994	439,778	421,868	349,177	357,549	357,589	340,438

TABLE 7

**Total and federally financed higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
U. Rochester	67	370,645	393,960	397,211	409,255	285,330	306,551	296,241	309,647
U. South Florida <sup>d</sup>	68	385,686	391,325	333,344	405,088	179,024	181,882	158,958	185,364
Princeton U.	69	365,007	385,739	396,502	404,448	180,305	193,453	203,259	205,000
Carnegie Mellon U.	70	331,383	359,720	386,996	402,376	181,958	197,978	217,625	234,993
U. Missouri, Columbia	71	294,686	310,421	332,180	388,779	138,029	139,781	156,190	163,576
U. Kansas	72	339,046	352,643	368,811	385,637	155,147	169,694	185,007	187,249
Uniformed Services U. of the Health Sciences	73	308,326	417,300	324,510	384,490	218,702	297,808	235,202	275,573
U. Oklahoma, Norman and Health Science Center	74	283,638	302,679	362,209	380,048	149,317	164,855	183,728	193,639
U. Miami	75	357,104	360,716	381,410	375,841	192,598	212,023	224,184	231,001
Virginia Commonwealth U.	76	246,190	255,648	283,874	364,096	140,363	142,293	152,751	160,995
Iowa State U.	77	361,206	358,474	363,107	360,275	147,679	147,866	165,912	169,177
Washington State U.	78	331,424	344,997	335,201	357,648	151,133	158,982	154,623	179,536
Rockefeller U.	79	353,142	351,089	356,217	357,543	87,231	84,566	86,280	96,318
U. Massachusetts, Medical School	80	274,211	281,507	279,096	347,337	194,953	197,388	192,938	248,873
U. New Mexico	81	251,322	239,696	243,375	332,566	169,952	159,940	161,627	242,212
Dartmouth C. and Dartmouth Hitchcock Medical Center	82	323,927	323,020	326,349	330,226	140,399	137,965	142,219	152,335
Florida State U.	83	297,661	329,205	350,430	328,604	147,184	149,784	162,296	150,108
Utah State U.	84	219,397	283,917	304,256	325,223	159,447	220,504	242,156	264,575
U. Tennessee, Knoxville <sup>e</sup>	85	259,607	247,693	320,407	316,273	117,776	123,434	138,402	135,202
U. Texas Health Science Center, Houston	86	258,411	271,525	273,862	308,823	128,232	132,647	133,624	165,139
U. Nebraska, Lincoln	87	308,053	316,820	320,463	307,083	103,565	109,954	107,299	106,564
U. Connecticut	88	269,685	285,764	280,131	302,329	144,048	159,220	164,848	183,362
Albert Einstein C. of Medicine	89	297,328	298,824	288,654	301,715	196,457	202,513	204,635	214,619
Temple U.	90	276,011	284,301	299,707	299,778	155,312	161,673	154,600	153,316
Louisiana State U., Baton Rouge	91	286,726	296,497	286,733	296,673	84,309	88,721	87,895	103,178
Georgetown U.	92	221,449	240,960	258,659	279,932	89,977	94,050	98,682	130,419
Medical U. South Carolina	93	282,253	295,600	272,590	277,761	142,639	153,226	153,802	162,394
Oregon State U.	94	272,433	263,830	268,385	276,955	171,805	168,571	167,494	179,180
Medical C. Wisconsin	95	229,436	251,300	264,325	276,850	111,273	119,036	128,783	136,385
Brown U.	96	244,838	256,954	266,127	276,331	164,452	178,460	185,676	198,574
Mississippi State U.	97	244,102	264,526	280,485	275,143	89,012	104,738	120,616	116,713
SUNY, Stony Brook U.	98	245,016	260,813	263,470	274,516	136,241	144,618	146,478	162,972
U. Hawaii, Manoa	99	276,388	280,416	275,929	271,768	167,030	167,816	163,694	157,772
Auburn U., Auburn	100	212,925	231,619	255,281	266,374	58,488	64,333	73,468	91,157

TABLE 7

**Total and federally financed higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
George Washington U.	101	260,656	269,799	270,369	266,108	156,768	155,697	157,533	161,349
Wake Forest U.	102	191,371	238,933	244,643	264,216	154,363	165,702	166,596	188,887
Woods Hole Oceanographic Institution	103	204,400	229,143	227,573	262,048	163,003	184,995	191,186	222,351
U. California, Santa Barbara	104	235,164	243,778	254,434	248,961	113,388	118,517	123,198	122,168
Florida International U.	105	196,180	225,864	236,842	246,075	85,541	96,912	103,366	105,309
U. Notre Dame	106	219,993	240,078	227,535	240,324	96,182	106,411	104,030	109,891
Clemson U.	107	213,458	218,760	228,597	237,485	73,735	81,080	82,203	89,883
Wayne State U.	108	238,859	244,217	243,259	235,519	111,018	118,043	113,137	117,976
U. Delaware	109	186,192	206,270	220,445	231,532	118,573	133,020	144,142	157,725
Tufts U.	110	213,457	213,285	216,241	224,956	139,334	146,630	148,320	166,809
U. Texas Health Science Center, San Antonio	111	179,219	188,483	202,572	219,734	86,956	96,502	102,959	106,824
U. Central Florida	112	215,332	225,085	213,757	218,596	97,539	99,310	101,332	109,310
U. South Carolina, Columbia	113	206,355	205,940	219,464	215,374	88,602	102,992	97,143	97,193
George Mason U.	114	149,138	186,267	218,445	214,207	69,481	96,307	104,070	103,712
U. Massachusetts, Amherst	115	211,140	223,177	219,389	213,824	110,654	117,359	116,170	116,349
Northeastern U.	116	166,711	183,998	200,068	211,342	114,711	126,762	136,273	143,421
Rice U.	117	161,831	182,564	198,681	207,404	78,175	83,584	88,768	95,648
Georgia State U.	118	201,235	195,572	202,451	206,472	71,650	70,185	78,199	79,834
Tulane U.	119	193,294	196,933	204,430	205,206	102,201	104,219	107,290	113,819
Kansas State U.	120	218,299	218,622	213,900	203,846	80,436	81,269	79,100	77,779
U. Houston	121	177,484	195,398	200,428	202,536	63,801	68,523	71,779	77,489
U. Nebraska, Medical Center	122	177,245	194,455	202,406	200,974	93,463	102,604	105,158	111,042
Thomas Jefferson U.	123	148,573	170,458	171,377	200,393	64,869	74,816	74,676	109,448
U. Louisville	124	176,655	177,862	198,818	200,362	80,511	87,563	88,251	97,179
West Virginia U.	125	185,110	187,512	188,452	199,907	76,527	82,353	79,657	89,802
Oklahoma State U., Stillwater	126	188,756	184,276	187,060	198,799	43,421	39,880	39,873	47,428
Texas Tech U.	127	185,742	193,923	199,643	197,739	31,357	35,136	31,475	33,938
U. Vermont	128	128,293	135,859	191,147	195,320	86,940	90,405	97,981	103,554
U. Arkansas for Medical Sciences	129	139,187	153,135	174,549	194,709	57,523	63,498	70,508	83,387
Montana State U., Bozeman	130	125,129	154,811	166,285	193,577	75,524	88,955	93,759	113,257
Wichita State U.	131	81,137	128,795	153,816	192,042	18,706	29,634	53,540	77,427
U. Dayton	132	147,001	165,343	163,718	191,228	132,358	153,328	154,101	181,445
U. California, Riverside	133	167,847	177,655	184,894	189,600	77,314	81,151	92,503	97,182
U. Texas Medical Branch	134	181,831	175,372	180,595	185,759	104,356	107,806	114,103	117,915



TABLE 7

**Total and federally financed higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
U. Louisiana, Lafayette	135	124,713	144,187	164,070	181,400	28,874	34,400	40,044	65,436
U. Nevada, Reno	136	144,426	152,128	159,790	175,386	62,635	62,903	64,793	77,246
U. Alaska, Fairbanks	137	140,917	144,457	152,299	172,957	94,998	92,964	101,414	128,229
U. New Hampshire	138	146,430	148,980	156,901	167,373	95,807	90,241	100,373	99,323
New Jersey Institute of Technology	139	162,349	161,232	163,447	166,587	91,999	89,846	85,746	77,057
U. Arkansas, Fayetteville	140	175,498	180,225	165,887	164,443	52,937	50,875	47,454	48,534
North Dakota State U.	141	145,669	152,381	155,645	164,050	35,122	35,322	31,614	42,824
U. California, Santa Cruz	142	127,538	142,958	150,400	160,615	63,197	74,669	76,468	86,263
Drexel U.	143	155,908	149,481	143,123	152,752	82,777	85,278	82,576	93,517
Syracuse U.	144	147,751	154,366	149,652	151,717	39,538	37,803	31,861	34,200
U. Alabama, Huntsville	145	99,405	109,744	131,648	149,792	74,650	85,211	104,288	116,971
U. Maine	146	106,694	129,913	134,183	146,801	45,348	51,049	54,376	65,249
U. Texas, San Antonio	147	72,682	84,326	138,586	145,362	29,824	34,588	34,334	42,952
U. North Dakota	148	109,865	110,836	111,663	143,506	51,050	49,700	44,153	58,463
U. Oregon	149	111,896	110,664	114,259	139,193	71,568	80,083	81,278	82,242
U. Alabama, Tuscaloosa	150	71,992	83,317	95,200	129,509	30,447	37,916	43,017	53,880
U. Rhode Island	151	104,490	115,160	109,967	129,296	64,026	73,080	67,242	78,923
U. Texas, Arlington	152	105,688	123,858	133,793	126,477	36,027	41,764	44,950	46,946
SUNY, Binghamton U.	153	113,851	104,297	117,870	124,565	23,392	24,213	24,564	23,225
U. Texas, Dallas	154	113,315	126,661	132,192	122,825	40,046	48,466	55,983	58,249
U. Montana, Missoula	155	90,563	104,665	110,218	121,571	54,708	55,566	62,067	70,686
Rensselaer Polytechnic Institute	156	100,856	103,739	122,753	119,056	50,120	50,448	52,150	52,465
Augusta U.	157	99,081	96,502	103,961	116,480	48,800	47,031	55,797	61,943
U. Mississippi	158	137,521	158,809	122,960	116,175	63,736	73,865	82,361	76,886
Cold Spring Harbor Laboratory	159	115,870	126,773	115,198	114,903	67,139	73,854	62,215	56,907
SUNY, U. Albany	160	173,031	181,531	138,088	114,501	87,451	92,709	67,039	56,425
New Mexico State U.	161	96,270	101,457	107,275	110,580	54,009	58,022	60,971	64,699
U. Tennessee, Health Science Center	162	79,460	96,979	99,716	109,562	39,421	42,396	48,264	56,021
U. Texas, El Paso	163	91,032	106,809	108,628	109,410	44,352	41,261	39,126	43,930
San Diego State U.	164	88,177	92,964	97,710	107,681	39,453	39,515	41,117	43,473
Brandeis U.	165	61,639	60,825	91,355	107,549	38,632	41,475	41,440	52,147
Rush U.	166	89,101	96,267	94,438	107,398	64,178	68,941	65,343	73,279
U. Idaho	167	111,590	113,107	112,810	105,895	51,172	51,529	51,450	51,021
U. Nevada, Las Vegas	168	83,800	99,445	105,872	101,009	33,727	28,381	29,252	27,178

TABLE 7

**Total and federally financed higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
U. Massachusetts, Lowell	169	72,266	83,996	92,216	94,708	30,086	35,309	41,304	48,179
U. Wyoming	170	113,063	80,353	93,061	93,202	42,595	52,082	57,353	54,444
U. Maryland, Baltimore County	171	71,481	80,632	83,867	84,418	53,522	56,993	59,391	59,882
Michigan Technological U.	172	78,678	80,443	77,927	81,715	32,606	34,709	36,172	41,505
Colorado School of Mines	173	60,372	70,397	78,517	81,443	40,161	49,603	55,560	61,421
U. North Texas, Denton	174	44,025	78,691	84,239	81,252	19,026	17,345	13,653	18,702
Saint Louis U.	175	60,380	66,103	69,528	79,005	28,121	34,275	34,419	41,411
Texas State U.	176	64,322	64,554	70,714	72,510	30,314	29,614	26,950	31,116
Cleveland State U.	177	83,641	80,077	78,189	71,451	55,468	51,475	53,756	47,402
Northern Arizona U.	178	52,899	58,914	64,456	69,129	29,648	35,980	39,387	41,744
William & Mary	179	65,269	64,835	66,763	68,801	33,503	31,983	30,436	29,928
U. Southern Mississippi	180	61,336	76,464	72,322	67,417	31,815	46,924	42,870	44,401
U. Memphis	181	64,297	58,700	69,463	67,092	25,166	18,370	18,063	21,578
American U.	182	61,741	71,053	71,839	65,912	13,013	15,229	16,123	12,076
Van Andel Research Institute	183	55,171	61,738	58,982	65,789	14,285	18,259	18,538	22,231
Indiana U.-Purdue U., Indianapolis	184	60,501	67,635	70,778	65,330	22,834	27,349	31,862	30,290
Boston C.	185	57,030	61,956	63,063	65,156	30,541	32,475	31,038	34,257
Naval Postgraduate School	186	59,213	67,323	62,903	65,101	44,140	54,358	51,870	54,855
U. Massachusetts, Boston	187	61,473	62,018	64,219	63,723	30,412	25,083	27,575	23,673
Old Dominion U.	188	60,321	67,425	65,704	62,332	32,584	31,355	30,330	25,514
San Jose State U.	189	41,366	44,309	47,301	60,100	33,886	35,143	34,102	30,877
Florida Atlantic U.	190	48,024	51,085	53,845	58,471	18,771	21,667	23,695	28,510
U. Texas Rio Grande Valley	191	27,125	52,016	56,702	58,187	13,330	13,629	13,093	13,018
CUNY, City C.	192	53,979	52,738	45,632	57,361	36,866	33,065	30,106	34,218
Rochester Institute of Technology	193	49,413	58,175	57,777	56,043	25,990	26,359	28,092	31,187
U. Wisconsin-Milwaukee	194	55,771	53,773	61,069	55,664	24,612	23,342	25,354	24,397
Missouri U. of Science and Technology	195	42,986	47,807	47,001	54,437	21,835	22,426	22,860	26,164
U. Toledo	196	50,320	55,006	54,100	53,169	25,323	28,273	27,770	32,601
Howard U.	197	45,965	44,163	44,933	52,412	33,602	29,978	29,256	35,443
Mercer U.	198	34,197	44,128	49,116	51,989	18,999	27,035	31,572	34,413
U. North Carolina, Charlotte	199	39,888	47,187	50,050	51,877	22,386	26,199	27,618	27,145
East Carolina U.	200	39,074	55,611	57,820	51,662	12,611	17,428	20,168	22,813
South Dakota State U.	201	63,465	66,794	60,939	51,542	27,129	29,683	22,531	18,607
U. Maryland Center for Environmental Science	202	54,136	56,033	54,560	51,201	15,008	17,476	15,498	14,072

TABLE 7

**Total and federally financed higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
U. California, Office of the President	203	55,676	67,702	60,686	50,848	343	319	217	653
U. North Texas, Health Science Center	204	49,503	50,124	42,766	50,698	27,579	27,260	25,917	32,464
Kent State U.	205	42,792	47,188	50,307	50,408	11,118	13,350	15,004	15,179
Ohio U.	206	53,303	53,735	51,914	49,764	13,961	14,802	15,543	19,164
Baylor U.	207	31,936	33,304	39,765	48,809	5,782	6,955	8,851	11,025
Worcester Polytechnic Institute	208	33,067	39,878	43,092	48,702	18,635	22,964	26,074	30,166
U. South Alabama	209	41,056	52,540	51,102	47,610	15,098	19,947	21,825	23,758
Southern Illinois U., Carbondale	210	49,636	41,729	41,617	47,210	12,733	12,625	12,735	12,655
Florida A&M U.	211	39,682	42,470	41,319	47,124	32,422	35,362	33,136	36,761
Boise State U.	212	41,382	39,824	43,307	46,065	24,918	24,493	26,914	31,357
U. California, Merced	213	38,226	44,890	45,966	45,964	14,385	16,850	20,000	18,621
Air Force Institute of Technology	214	33,360	34,016	35,584	45,703	23,393	21,856	22,854	27,025
SUNY, Upstate Medical U.	215	36,674	38,091	41,557	44,870	20,391	22,028	23,940	24,974
Louisiana State U., Health Sciences Center, New Orleans	216	38,989	40,914	43,419	44,370	26,988	31,290	31,381	34,272
U. Puerto Rico, Medical Sciences Campus	217	41,216	45,014	37,217	44,111	30,597	34,570	27,033	33,262
Loyola U., Chicago	218	39,332	39,223	39,365	44,036	21,994	23,562	24,018	26,793
Brigham Young U., Provo	219	40,755	39,582	38,569	43,916	23,892	23,901	24,632	30,439
Stevens Institute of Technology	220	33,060	36,695	44,747	43,386	26,281	28,342	33,461	33,998
Southern Methodist U.	221	31,140	42,562	43,081	41,960	13,439	17,869	17,752	17,886
Texas Tech U., Health Sciences Center	222	37,819	44,072	44,135	41,583	7,546	11,345	13,043	12,148
Portland State U.	223	46,911	50,045	43,667	41,311	31,234	33,055	31,315	29,842
Lehigh U.	224	38,674	38,185	38,064	41,279	25,834	26,554	26,816	29,051
North Carolina Agricultural and Technical State U.	225	38,140	37,339	36,151	40,751	24,874	23,863	22,338	25,755
U. Denver	226	27,270	36,551	41,349	38,751	15,713	22,012	24,753	23,415
Georgia Southern U.	227	12,978	11,166	12,166	37,201	1,805	1,780	1,790	3,373
Marquette U.	228	32,471	37,777	37,136	37,087	10,672	12,792	13,187	13,918
U. North Carolina, Greensboro	229	22,743	26,325	28,966	37,033	17,016	18,923	20,447	24,423
U. West Florida	230	41,035	38,555	37,397	36,837	8,634	11,506	12,369	13,313
San Francisco State U.	231	30,903	31,888	33,828	35,768	14,388	15,675	15,834	15,993
Catholic U. of America	232	25,497	24,484	25,221	35,548	20,749	21,642	22,503	23,128
SUNY, Downstate Health Sciences U.	233	34,661	36,015	33,204	34,459	26,302	26,914	26,454	27,620
U. Missouri, Kansas City	234	25,136	31,956	36,356	33,855	10,596	18,624	22,320	21,203
CUNY, Hunter C.	235	33,702	37,478	38,345	33,816	21,766	23,485	26,025	23,166
Morehouse School of Medicine	236	33,215	31,289	29,813	32,637	24,326	22,461	22,500	25,181

TABLE 7

**Total and federally financed higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
U.S. Air Force Academy	237	35,925	43,941	42,197	32,086	27,973	35,294	33,554	31,818
Texas A&M U.-Corpus Christi	238	30,253	32,944	32,284	30,500	12,815	14,451	13,349	10,967
Illinois Institute of Technology	239	33,280	34,334	29,122	29,698	28,265	28,827	24,244	24,762
U. Puerto Rico, Rio Piedras	240	17,085	24,088	22,895	28,896	10,028	13,943	14,071	15,108
New Mexico Institute of Mining and Technology	241	21,383	24,616	24,591	28,745	19,560	22,864	22,922	24,900
U. Massachusetts, Dartmouth	242	26,626	28,036	26,836	28,729	7,156	7,353	6,506	8,223
SUNY, C. of Environmental Science and Forestry	243	26,610	29,137	29,296	28,440	6,873	7,743	7,809	6,979
U. Texas Health Science Center, Tyler	244	17,949 i	19,606 i	21,265	27,928	6,438 i	7,084 i	7,732	12,007
U. South Dakota	245	30,943	32,028	29,279	27,537	12,523	13,367	13,034	11,664
Louisiana Tech U.	246	24,655	26,143	26,585	27,417	5,801	6,564	7,167	6,428
Tennessee State U.	247	17,681	15,236	25,942	26,880 i	10,291	8,962	19,272	20,378 i
Rowan U.	248	16,247	22,892	26,018	26,458	9,602	12,064	15,551	17,400
Desert Research Institute	249	27,875	26,991	26,428	26,365	17,911	16,745	15,791	16,641
Wright State U.	250	68,035	64,208	49,825	26,259	43,644	41,428	35,321	19,617
California Polytechnic State U., San Luis Obispo	251	16,352	25,249	26,605	25,953	9,613	9,720	10,178	11,163
Chapman U.	252	14,141	19,592	26,660	25,820	4,057	5,738	7,850	8,574
Western Michigan U. and Homer Stryker M.D. School of Medicine	253	21,184	25,071	24,541	25,314	10,828	14,399	13,187	13,944
Northern Illinois U.	254	23,280	26,570	25,420	25,261	8,903	8,610	8,030	9,080
Miami U.	255	19,658	22,380	24,489	25,138	9,627	9,755	10,473	9,412
Villanova U.	256	20,730	22,837	25,505	24,723	3,968	4,085	4,921	5,826
Louisiana State U., Health Sciences Center, Shreveport	257	24,463	26,262	25,321	24,600	9,235	12,185	11,452	12,359
Nova Southeastern U.	258	23,296	24,567	26,035	24,513	7,853	8,965	10,452	10,386
Teachers C., Columbia U.	259	24,477	24,865	22,630	24,335	8,925	8,054	7,614	8,521
Illinois State U.	260	21,055	27,082	31,539	24,152	6,312	9,827	8,719	9,787
Rutgers, State U. New Jersey, Newark	261	27,206	26,661	28,006	23,854	17,516	15,397	16,196	16,281
U. Minnesota, Duluth	262	25,189	27,530	26,137	23,767	5,520	7,143	6,454	5,325
California State U., Sacramento	263	21,429	23,544	24,939	23,699	6,392	5,801	5,693	5,582
Marshall U.	264	20,050	19,622	22,250	23,620	8,584	9,617	11,078	12,854
Texas A&M U.-Kingsville	265	21,150	22,268	22,745	23,578	7,459	8,419	9,610	9,265
Ponce Health Sciences U.	266	7,857	11,390	13,566	23,297	6,386	8,339	11,228	18,284
Creighton U.	267	20,587	24,039	20,339	23,251	5,721	8,265	7,583	8,585
Florida Institute of Technology	268	17,378	17,876	18,271	23,195	8,511	10,352	10,999	13,049
Delaware State U.	269	21,377	23,017	23,105 i	23,193	13,007	12,179	14,319 i	16,460
Middle Tennessee State U.	270	7,132	7,673	8,697	22,531	2,391	2,473	3,062	4,150

TABLE 7

**Total and federally financed higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Albany Medical C.	271	21,187	23,028	23,510	22,443	10,243	11,827	12,940	13,166
Central Michigan U.	272	15,616	17,102	17,448	21,726	7,130	8,100	7,450	6,919
Tuskegee U.	273	16,535	20,562	20,973	21,355	10,388	14,825	15,122	15,424
U. Alaska, Anchorage	274	21,096	21,724	22,713	21,332	13,597	14,219	15,290	15,079
U. Nebraska, central administration	275	13,352	18,860	23,672	21,295	13,200	18,523	23,104	20,675
Morgan State U.	276	12,993	13,253	17,193	20,628	11,603	11,952	14,101	16,319
Oakland U.	277	13,817	18,002	12,949	20,261	5,777	6,690	5,068	7,426
California State U., East Bay	278	491	8,640	9,072	20,108	385	2,651	2,348	9,275
Embry-Riddle Aeronautical U.	279	16,767	12,478	17,786	19,830	12,661	8,970	11,542	14,859
U.S. Military Academy	280	13,582	10,765	12,473	19,696	13,393	10,528	8,406	13,708
Eastern Virginia Medical School	281	30,010	27,064	20,870	19,415	21,356	19,408	15,748	14,774
U. Nebraska, Omaha	282	12,943	14,302	16,134	19,006	7,939	8,807	9,996	13,503
Kennesaw State U.	283	11,214	12,850	17,954	18,880	2,343	2,499	1,983	3,104
New York Medical C.	284	16,226	19,398	20,137	18,872	8,141	11,061	12,106	10,739
Bowling Green State U.	285	17,991	17,026	18,729	18,619	6,056	5,852	6,397	7,263
East Tennessee State U.	286	14,043	14,197	13,925	18,449	7,168	7,688	7,329	8,358
U. Puerto Rico, Mayaguez	287	24,769	26,877	26,553	18,368	14,111	15,653	15,842	13,073
Southern Illinois U., Edwardsville	288	18,420	18,088	18,273	18,044	3,209	3,561	3,467	3,844
U. Colorado Denver <sup>C</sup>	289	na	na	na	18,039	na	na	na	11,866
Tarleton State U.	290	12,503	13,171	14,890	17,729	4,288	4,632	4,139	4,620
U. Guam	291	11,225	12,249	13,043	17,666	8,597	9,339	9,722	14,316
Prairie View A&M U.	292	17,278	18,018	18,723	17,582	8,421	9,346	9,249	9,566
Montclair State U.	293	7,980	15,588	17,636	17,390	3,505	4,164	3,782	4,146
U. Akron	294	32,582	30,020	23,496	17,340	12,470	11,796	10,574	9,024
U. New Orleans	295	14,437	15,328	16,594	16,979	5,258	4,353	3,868	3,674
Clarkson U.	296	16,927	17,147	15,104	16,765	8,203	8,551	7,095	7,246
Fordham U.	297	20,644	20,287	20,456	16,731	4,973	4,218	3,831	4,076
U. North Carolina, Wilmington	298	16,955	17,515	16,544	16,656	5,732	7,174	6,783	6,852
California State U., Northridge	299	19,618	21,095	21,228	16,573	15,892	16,939	17,261	13,989
U. Tulsa	300	20,072	18,648	18,787	16,449	4,615	4,142	4,697	5,876
Jackson State U.	301	19,465	18,160	15,081	16,157	17,385	16,259	13,662	14,038
CUNY, Queens C.	302	16,676	18,391	16,470	16,063	12,390	13,457	12,726	12,386
Meharry Medical C.	303	16,980	18,286	13,870	15,840	14,515	16,443	12,573	13,784
U. North Florida	304	9,994	12,341	13,573	15,782	3,818	4,017	4,568	7,267

TABLE 7

**Total and federally financed higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
South Dakota School of Mines and Technology	305	15,092	12,973	14,490	15,746	10,240	9,283	10,659	11,587
CUNY, Advanced Science Research Center	306	5,666	8,310	11,373	15,403	4,027	6,859	9,208	11,840
Tennessee Technological U.	307	12,765	13,801	14,085	15,387	5,390	6,153	6,471	7,625
Texas Christian U.	308	5,808	6,552	15,326	15,336	3,198	2,866	3,168	4,448
U. of the Virgin Islands	309	11,957	12,236	13,631	15,231	10,852	10,445	11,787	13,099
California State U., Long Beach	310	22,880	18,664	16,684	15,134	14,021	13,579	12,014	11,178
Long Island U.	311	2,405	5,113	13,997	15,059	1,929	1,839	1,349	2,686
CUNY, Graduate School of Public Health and Health Policy	312	9,751	9,521	12,177	15,035	5,080	5,572	8,722	12,254
Montana Technological U.	313	12,666	12,731	12,987	14,933	4,691	4,926	4,322	6,133
James Madison U.	314	4,191	8,726	10,247	14,687	1,879	2,717	2,609	2,379
U. Baltimore	315	10,556	12,451	15,054	14,672	7,431	9,103	11,748	11,692
U. Missouri, Saint Louis	316	12,266	14,432	15,352	14,632	6,364	7,059	6,146	5,812
New School	317	13,606	13,421	13,186	14,281	1,857	1,819	1,050	1,324
Alcorn State U.	318	13,834	14,435	13,710	14,188	7,372	7,540	7,023	7,593
North Carolina Central U.	319	14,942	16,227	15,833	14,105	12,947	13,503	12,787	10,676
Humboldt State U.	320	15,044	15,076	14,236	14,103	3,024	2,103	2,399	1,975
Loma Linda U.	321	19,892 i	17,938 i	15,984 i	14,029	13,923 i	12,654 i	11,385 i	10,116
Idaho State U.	322	18,081	14,972	14,478	13,953	10,081	7,547	7,849	7,216
Northeast Ohio Medical U.	323	18,231	18,016	15,758	13,853	9,743	10,107	10,684	9,999
Rosalind Franklin U. of Medicine and Science	324	16,765	16,126	14,601	13,805	9,249	8,865	8,504	9,357
Western Washington U.	325	13,075	11,983	12,823	13,450	4,393	3,978	3,966	4,290
Sam Houston State U.	326	7,152	9,445	12,437	13,315	2,200	3,723	4,764	5,632
Charles R. Drew U. of Medicine and Science	327	11,490	13,739	13,682	13,228	10,198	10,427	9,863	9,945
U. Hawaii, system office	328	12,340	12,159	13,568	12,918	12,328	12,052	13,367	12,688
Loyola Marymount U.	329	7,911	7,272	7,193	12,819	1,040	1,185	1,105	2,170
Xavier U. Louisiana	330	11,784	10,152	11,387	12,799	10,165	8,679	9,680	11,213
CUNY, John Jay C. of Criminal Justice	331	14,310	12,295	13,939	11,791	5,896	4,971	5,297	3,519
Hampton U.	332	14,424	13,605	11,402	11,669	14,170	13,390	11,278	11,517
California State U., San Bernardino	333	16,702	16,062	10,819	11,607	7,920	8,651	5,886	5,867
Texas Tech U., Health Sciences Center, El Paso	334	12,556	11,883	10,421	11,360	2,532	2,279	1,703	1,831
U. Tennessee, Chattanooga	335	7,585	9,280	10,834	11,192	1,490	2,393	3,915	4,507
Rhode Island C.	336	9,287	9,480	10,094	10,990	3,337	3,332	4,128	4,894
Midwestern U.	337	10,173	10,343	10,479	10,961	1,278	1,045	936	1,506
U.S. Naval Academy	338	14,057	13,621	13,123	10,818	13,331	12,991	12,577	10,247

TABLE 7

**Total and federally financed higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Salisbury U.	339	9,119	9,368	9,496	10,552	1,805	2,290	2,413	3,271
Duquesne U.	340	17,420	16,947	17,485	10,521	5,762	4,552	4,981	5,020
California State U., San Marcos	341	8,348	10,595	13,250	10,213	7,497	9,134	11,547	8,831
Virginia State U.	342	10,673	11,457	10,014	10,123	5,655	6,636	5,642	4,846
Missouri State U.	343	4,409	5,910	13,131	10,014	3,995	5,076	12,310	8,931
West Texas A&M U.	344	4,797	5,437	6,220	9,920	1,329	1,565	1,542	2,195
St. Edward's U.	345	10,431	9,650	9,619	9,527	7,289	6,500	7,700	7,600
California State U., Los Angeles	346	9,594	12,476	10,590	9,382	8,586	9,288	8,380	7,342
California State U., Fresno	347	8,988	8,599	8,856	9,213	3,969	2,900	3,117	4,101
Texas Southern U.	348	3,740	4,893	10,138	9,128	2,839	3,238	6,249	5,562
Alabama A&M U.	349	16,932 i	12,840	8,749	9,065 i	11,704 i	8,277	5,643	5,967 i
California State U., Fullerton	350	6,348	7,173	5,929	9,006	4,981	4,340	4,121	4,551
Bryn Mawr C.	351	10,282	9,846	11,575	8,987	2,242	1,801	1,531	1,429
Clark Atlanta U.	352	7,833	9,048	8,452	8,892	5,634	5,689	5,324	5,355
Ball State U.	353	11,163	12,145	9,429	8,826	3,028	2,929	2,397	2,469
Kentucky State U.	354	9,125	8,433	7,963	8,756	5,618	4,692	4,456	3,716
Central State U.	355	3,615	3,766	6,107	8,751	2,299	2,517	3,097	4,165
U. Arkansas, Pine Bluff	356	8,349	9,024	8,540	8,713	3,683	4,299	4,393	3,960
U. Maryland, Eastern Shore	357	4,941	7,133	8,092	8,636	4,890	6,983	8,084	8,346
Arkansas State U., Jonesboro	358	8,245	8,945	8,640	8,422	4,371	4,876	4,712	4,249
U. Washington, Bothell	359	8,097	7,950	7,107	8,311	2,920	3,353	2,815	2,956
Florida Gulf Coast U.	360	5,115	5,907	6,671	8,197	3,164	3,773	5,304	4,467
Winston-Salem State U.	361	1,629	2,011	5,781	8,123	1,629	2,011	4,498	4,841
U. of the District of Columbia	362	2,960	4,800	4,590	8,104	2,021	3,283	2,664	6,851
Wesleyan U.	363	10,662	9,958	8,300	8,009	4,353	4,793	4,305	4,032
Clark U.	364	8,318	10,193	10,277	7,931	2,962	3,495	3,350	2,754
William Paterson U.	365	9,456	10,122	9,603	7,867	642	1,592	1,896	1,893
Oklahoma State U., Center for Health Sciences	366	2,608	5,408	8,378	7,758	1,021	985	2,618	2,304
Lincoln U., Jefferson City	367	4,215	4,581	5,777	7,621	2,498	2,700	3,636	5,621
U. San Diego	368	5,642	6,036	8,607	7,580	2,397	2,511	2,398	2,554
U. Michigan, Dearborn	369	8,094	8,813	8,777	7,472	1,448	1,850	2,264	2,366
U. Hawaii, Hilo	370	7,133	6,864	6,992	7,411	5,264	4,924	5,274	5,510
U. Arkansas, Little Rock	371	8,167	9,975	9,711	7,397	5,764	6,688	7,289	6,939
Claremont Graduate U.	372	8,880 i	8,715	9,403	7,235	2,982 i	1,886	809	1,152

TABLE 7

**Total and federally financed higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Eastern Michigan U.	373	6,600	7,175	9,088	7,233	1,522	2,135	2,598	2,237
U. Oklahoma, Tulsa	374	6,233	6,373	7,483	7,185	1,605	1,803	1,953	1,267
California State Polytechnic U., Pomona	375	8,043	6,099	7,396	7,011	4,297	3,555	5,514	4,396
Western Kentucky U.	376	9,617	9,281	8,241	6,944	3,162	3,391	3,265	2,348
California State U., Monterey Bay	377	5,799	6,444	5,874	6,882	3,607	3,746	3,889	3,813
Grand Valley State U.	378	6,968	6,592	6,792	6,809	1,719	1,663	1,831	1,415
Western U. of Health Sciences	379	5,140	4,951	5,899	6,688	2,755	3,035	4,486	5,620
DePaul U.	380	7,079	6,144	6,557	6,675	4,532	4,464	5,156	4,518
Edward Via C. of Osteopathic Medicine	381	7,601	7,225	7,475	6,629	195	749	566	537
West Virginia State U.	382	6,535	5,829	5,775	6,565	5,361	4,592	3,993	4,119
C. Charleston	383	7,375	7,610	5,728	6,361	4,376	4,395	3,087	4,126
Langston U.	384	10,872	i 10,719	14,409	6,345	7,474	i 6,622	9,004	3,089
CUNY, Brooklyn C.	385	6,600	6,837	i 7,074	6,318	4,280	4,465	i 4,651	4,505
California State U., Bakersfield	386	5,577	7,591	7,053	6,253	3,243	4,376	4,486	3,827
Wellesley C.	387	11,530	8,810	8,088	6,252	3,947	3,602	4,441	3,469
U. New England	388	6,700	7,346	6,886	6,234	4,976	5,269	5,064	3,864
U. Charleston	389	ne	ne	5,935	i 6,215	ne	ne	5,760	i 6,215
Philadelphia C. of Osteopathic Medicine	390	3,059	3,162	3,360	6,186	260	346	422	318
Indiana U. Pennsylvania	391	6,450	8,119	6,531	6,180	891	1,810	1,309	1,503
Southern U. and A&M C., Agricultural Research and Extension Center	392	5,296	5,448	4,475	6,164	3,057	3,057	2,085	3,588
Gallaudet U.	393	7,617	5,382	4,599	6,126	2,259	2,190	1,841	2,140
U. Central Oklahoma	394	5,104	5,682	5,788	i 5,997	i 1,127	1,457	1,444	i 1,516
Roseman U. of Health Sciences	395	3,973	4,176	i 4,380	5,985	18	37	i 56	53
Southern Connecticut State U.	396	2,763	4,627	5,413	5,750	823	803	1,026	713
Purdue U., Northwest	397	8,062	5,272	5,839	5,647	3,205	2,493	1,996	2,280
Hofstra U.	398	1,662	1,744	1,445	5,545	1,275	1,296	997	1,266
Naval War C.	399	5,270	5,060	5,944	5,542	4,384	5,060	5,944	5,542
Pennsylvania State U., Behrend	400	2,760	3,414	1,743	5,509	1,025	1,427	543	2,286
U. Southern Maine	401	7,414	6,654	5,635	5,480	2,362	2,551	2,231	2,020
Colorado C.	402	2,560	2,233	2,291	5,467	429	324	196	3,725
Yeshiva U.	403	3,302	2,420	2,763	5,452	683	380	772	1,509
U. Colorado Colorado Springs	404	5,976	4,720	5,557	5,338	4,094	3,072	3,508	3,942
Seton Hall U.	405	6,536	7,056	5,718	5,320	3,551	3,982	2,725	2,137
Azusa Pacific U.	406	8,380	5,598	7,068	5,318	199	137	128	212



TABLE 7

**Total and federally financed higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed							
		2018	2019	2020	2021	2018	2019	2020	2021				
U. of Health Sciences and Pharmacy in St. Louis	407	ne	ne	4,835	5,313	ne	ne	3,767	4,063				
Des Moines U.	408	1,423	1,954	5,021	5,258	i	933	845	449	485	i		
Hope C.	409	3,179	2,745	3,822	5,211		1,100	1,361	1,155	1,992			
U. of St. Thomas (MN)	410	1,645	1,870	2,679	5,146		320	313	450	1,321			
Rutgers, State U. New Jersey, Camden	411	3,264	3,211	3,950	5,142		1,567	1,096	1,952	2,905			
Reed C.	412	2,607	3,240	5,155	5,132	i	1,065	1,423	1,806	1,916	i		
High Tech High Graduate School of Ed.	413	861	2,223	3,304	5,032		0	0	0	0			
Toyota Technological Institute, Chicago	414	3,251	3,681	5,887	4,967		1,759	1,934	3,038	3,090			
Southern U. and A&M C., Baton Rouge	415	4,171	4,492	3,849	4,943		3,431	3,243	2,996	3,770			
Texas Woman's U.	415	4,822	4,477	4,135	4,943		1,422	1,864	1,700	1,514			
Williams C.	417	5,506	5,188	4,924	4,902	i	1,458	1,131	1,086	1,152	i		
U. North Carolina, Asheville	418	3,414	4,602	4,789	4,844		1,442	1,846	2,405	2,322			
Fort Valley State U.	419	3,916	4,563	4,921	4,842		3,700	4,434	4,806	4,429			
Lamar U.	420	3,595	4,848	4,327	4,734		1,380	2,641	2,146	1,873			
Pacific U.	421	6,264	8,753	5,842	4,690		2,637	3,917	2,596	2,072			
U.S. Army War C.	422	ne	4,418	i	4,500	i	ne	4,418	i	4,500	i		
Amherst C.	423	4,849	6,325	4,906	4,636		1,630	2,118	1,775	1,375			
Barnard C.	424	3,458	4,010	3,748	4,632		2,491	2,871	2,800	3,527			
Abilene Christian U.	425	581	979	2,631	4,597		306	382	999	827			
U. Detroit Mercy	426	4,605	5,210	4,786	4,578		4,385	4,936	4,226	3,917			
Morehouse C.	427	4,531	4,564	4,825	4,533		4,531	4,494	4,825	4,533			
Claremont McKenna C.	428	5,693	6,214	5,846	4,515		555	730	771	637			
Appalachian State U.	429	3,631	3,268	4,894	4,509		1,922	1,332	1,469	1,694			
Bucknell U.	430	5,269	5,625	5,051	i	4,476	1,329	1,764	1,730	i	1,696		
New York Institute of Technology	431	3,832	5,820	3,580	4,465		1,501	3,135	1,542	1,988			
West Chester U. Pennsylvania	432	6,340	6,777	6,414	4,433		671	715	724	608			
U. Wisconsin-Stevens Point	433	3,867	i	4,314	i	4,764	4,401	1,575	i	1,884	i	2,193	1,776
Fisk U.	434	2,790	4,748	3,904	4,320		2,781	4,615	3,811	3,940			
Norfolk State U.	435	6,914	8,050	7,153	4,316		6,912	8,046	7,148	3,976			
Oregon Institute of Technology	436	3,163	4,793	4,267	4,314		235	437	326	252			
U. Washington, Tacoma	437	3,006	3,471	3,504	4,291		2,230	2,808	3,075	3,459			
CUNY, Graduate Center	438	4,781	5,399	4,787	4,265		2,592	3,009	2,561	2,496			
California State U., Chico	439	2,452	3,232	4,305	4,209		1,060	1,864	2,520	2,258			
CUNY, Lehman C.	440	5,556	4,690	4,154	4,181		4,478	3,342	3,197	3,382			

TABLE 7

**Total and federally financed higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Grinnell C.	441	5,573	5,500	5,826	4,122	635	364	644	344
Smith C.	442	5,954	6,041	4,685	4,085	3,305	2,892	2,650	2,433
U. New Haven	443	5,585	5,062	3,843	4,069	3,853	2,786	1,440	2,069
U. North Carolina, general administration	444	4,843	4,154	3,942	4,024	98	213	572	408
U. of the Sciences Philadelphia	445	3,671	3,740	3,761	4,005	1,095	1,318	1,126	1,320
U. Central Arkansas	446	3,620	3,477	3,455	3,990	1,262	1,462	1,421	1,640
Fayetteville State U.	447	4,980	4,695	2,797	3,933	2,445	2,168	1,008	1,988
South Carolina State U.	447	15,130 i	3,659	3,796 i	3,933 i	14,938 i	3,659	3,796 i	3,933 i
Murray State U.	449	2,872	3,710	3,019	3,844	1,587	2,639	1,929	2,721
Haverford C.	450	3,041	3,752	4,473	3,835	1,665	2,343	2,680	2,455
U. Central del Caribe	451	4,111	3,953	3,931	3,831	2,937	2,705	2,743	2,492
Texas A&M U.-Commerce	452	3,431	3,403	4,166	3,827	1,159	836	1,226	1,283
Carleton C.	453	5,515	4,388	3,732	3,800	2,542	1,891	1,236	1,499
Towson U.	454	3,194	3,423	3,612	3,794	2,133	2,144	2,010	1,758
National Defense U.	455	4,276	4,231	4,583	3,786	4,276	4,231	4,583	3,786
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	456	3,502	3,769	3,737	3,776	201	191	342	376
Texas A&M International U.	457	5,735	6,068	3,067	3,740	2,008	1,847	986	1,243
Franklin and Marshall C.	458	4,769	5,041	3,623	3,722	1,760	1,582	1,202	1,363
Albany C. of Pharmacy and Health Sciences	459	2,732	3,383	3,765	3,687	1,094	1,692	1,938	1,900
Pace U.	460	4,282	3,855	4,272	3,649	2,117	2,579	2,997	2,536
Occidental C.	461	1,445	2,458	2,657	3,587	901	1,614	1,567	2,348
U. Massachusetts, central office	462	5,298	4,916	5,225	3,541	643	488	488	342
Kean U.	463	645	2,174	2,201	3,538	196	1,289	775	362
Western Illinois U.	464	2,466	2,373	2,461	3,532	1,551	1,495	1,801	3,163
U. Texas of the Permian Basin	465	668	1,642	2,105	3,504	50	596	757	1,762
Touro U.	466	3,233	3,543	3,551	3,489	1,410	1,540	1,558	1,377
SUNY, C. of Optometry	467	3,120	2,968	3,477	3,460	1,944	1,823	1,688	2,105
Dakota State U.	468	3,619	3,710	4,412	3,416	3,273	3,008	3,957	2,603
Northern Kentucky U.	469	1,653	2,363	2,693	3,403	890	1,316	1,462	2,156
U. Virginia's C. Wise	470	ne	ne	2,434	3,310	ne	ne	952	1,307
Colgate U.	471	3,823	3,756	2,913	3,306	1,389	1,202	918	1,440
Swarthmore C.	472	3,921	4,203	3,544	3,296	1,586	1,539	1,041	1,414
U. Northern Iowa	473	2,983	3,628	2,970	3,259	1,697	2,343	1,881	1,995
Stephen F. Austin State U.	474	3,336	3,679	3,672	3,204	1,242	1,332	1,257	1,029

TABLE 7

**Total and federally financed higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
U. Nebraska, Kearney	475	2,639	2,919	2,640	3,201	1,075	1,240	1,259	1,327
Milwaukee School of Engineering	476	3,232	4,026	3,190	3,193	680	764	613	751
U. Northern Colorado	477	5,089	4,571	3,738	3,159	2,271	1,966	1,853	1,942
Santa Clara U.	478	2,299	2,319	2,682	3,142	1,592	1,333	1,522	1,930
MGH Institute of Health Professions	479	3,328	4,130	3,549	3,037	2,957	3,494	3,014	2,500
U. Wisconsin-La Crosse	480	3,569	2,692	2,795	3,001	1,171	777	817	895
Colorado State U., Pueblo	481	3,501	3,107	3,104	2,990	1,525	1,282	1,161	1,508
Sonoma State U.	482	949	1,656	1,545	2,957	735	1,166	936	2,212
St. John's U., New York	483	2,903	2,352	3,282	2,940	1,612	1,666	1,805	1,950
Pennsylvania State U., Harrisburg	484	2,119	2,805	1,866	2,938	292	80	451	1,616
Middlebury C.	485	1,895	1,657	1,720	2,927	1,774	1,558	1,546	2,639
Saint Joseph's U.	486	2,151	2,851	3,150	2,922	252	373	1,047	1,158
Trinity U.	487	3,244	3,736	3,472	2,905	1,187	924	1,207	1,078
CUNY, C. Staten Island	488	4,118 i	3,986	3,682	2,860	1,982 i	2,421	2,295	2,234
Western Carolina U.	489	1,507	2,633	2,696	2,847	1,038	1,736	1,707	1,697
Northwest Indian C.	490	2,154	2,659	2,708 i	2,806 i	2,037	2,520	2,497 i	2,621 i
California State U., Maritime Academy	491	3,039	2,959	3,202	2,799	550	617	621	548
Youngstown State U.	492	4,463	4,447	4,120	2,775	3,634	2,878	3,308	2,198
Austin Peay State U.	493	2,644	2,285	2,833	2,740	599	295	475	597
Pittsburg State U.	494	2,253	2,513	2,173	2,730	195	339	477	759
California State U., Dominguez Hills	495	2,043	1,957	2,065	2,690	1,354	1,261	1,433	2,001
Alfred U.	496	3,641	5,153	2,780	2,660	1,416	1,580	947	939
Christopher Newport U.	497	1,732	1,961	2,608	2,656	1,069	1,285	1,365	1,497
Pepperdine U.	498	1,954	2,170	2,006	2,655	713	914	693	835
Alabama State U.	499	2,434	2,577	2,582	2,631	2,434	2,577	2,582	2,338
Bates C.	500	1,635	2,135	2,303	2,620	1,121	1,607	1,885	2,079
U. Illinois, Springfield	501	2,164	1,876	3,406	2,612	1,109	980	976	1,071
U. Wisconsin-Superior	502	3,068	2,250	2,301	2,602	1,924	1,527	1,382	1,843
Winthrop U.	503	2,007	2,189	2,217	2,586	1,419	1,438	1,563	1,495
Pratt Institute	504	ne	ne	ne	2,547	ne	ne	ne	294
Dillard U.	505	6,573	2,772	2,523	2,528	5,503	1,390	1,200	1,257
CUNY, Baruch C.	506	2,817	2,387	2,396	2,521	1,412	1,359	1,470	1,691
Purdue U., Fort Wayne	507	4,945	2,416	2,264	2,495	773	544	589	401
Davidson C.	508	1,638	1,777	2,263	2,466	813	973	1,411	1,151

TABLE 7

**Total and federally financed higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed											
		2018	2019	2020	2021	2018	2019	2020	2021								
Johnson C. Smith U.	509	2,468	2,148	2,472	2,461	i	2,003	1,909	2,230	2,365	i						
Furman U.	510	2,064	1,628	2,101	2,431		1,110	1,106	847	1,028							
Saginaw Valley State U.	511	1,640	2,818	2,343	2,428	i	1,227	2,339	1,809	1,899	i						
Bowdoin C.	512	2,724	2,991	2,719	2,417		2,065	1,790	1,862	1,836							
Chicago State U.	513	1,154	898	980	2,414		1,154	898	978	2,414							
Central Washington U.	514	3,066	3,223	2,674	2,410		1,840	2,159	1,701	1,778							
Framingham State U.	515	164	1,540	2,317	2,401	i	17	1,452	179	188	i						
St. Cloud State U.	516	3,725	3,275	3,056	2,379		529	733	459	577							
Harvey Mudd C.	517	3,790	3,353	2,916	2,359		1,762	1,619	1,748	1,443							
California State U., Channel Islands	518	1,248	1,572	1,497	2,341		284	500	553	993							
Skidmore C.	519	2,584	3,012	2,412	2,335		1,893	2,261	1,827	1,739							
Plymouth State U.	520	990	880	664	2,318		794	744	558	421							
Marymount U.	521	ne	ne	ne	2,307		ne	ne	ne	337							
U. Richmond	522	2,784	2,783	2,469	2,294		1,628	1,575	1,628	1,534							
Spelman C.	523	2,350	2,751	2,750	2,282		1,673	2,004	2,136	1,886							
Lewis and Clark C.	524	2,811	2,750	3,350	2,281		848	931	1,268	702							
U. Texas, Tyler	525	1,828	2,063	2,007	2,279		719	813	774	929							
Keck Graduate Institute	526	1,967	i	2,095	i	2,152	i	2,254	i	1,007	i	1,078	i	1,113	i	1,201	i
Coastal Carolina U.	527	1,631	2,042	1,903	2,245		1,031	1,294	1,211	948							
Palmer C. of Chiropractic, Davenport	528	1,600	1,650	1,900	2,233		1,100	1,100	1,400	1,733							
U. Louisiana, Monroe	529	2,123	2,364	2,362	2,198		1,789	1,949	2,025	1,465							
Minnesota State U., Mankato	530	2,943	3,392	2,754	2,170		639	708	525	575							
Adelphi U.	531	330	359	1,258	i	2,157		265	292	1,190	i	2,089					
Pomona C.	532	2,983	2,985	2,855	2,146		868	863	1,123	930							
Sul Ross State U.	533	2,934	2,352	2,068	2,143	i	553	339	481	505	i						
Grambling State U.	534	2,981	2,836	2,427	2,124		1,806	1,066	787	731							
Tougaloo C.	535	3,173	3,380	2,102	2,092	i	3,173	3,380	2,102	2,092	i						
California State U., Stanislaus	536	1,394	1,477	1,843	2,085		734	964	1,284	1,354							
SUNY, Geneseo	537	1,939	2,139	1,642	2,070		998	1,206	950	1,273							
Citadel Military C. South Carolina	538	739	1,120	1,012	2,054		484	835	736	1,714							
Suffolk U.	539	1,866	i	2,056	2,106	2,043		739	i	905		844		634			
U. South Carolina, Aiken	540	2,602	2,481	2,590	2,042		2,437	2,379	2,328	1,884							
Elon U.	541	2,486	2,545	1,968	2,032		309	284	106	138							
Mount Holyoke C.	542	3,027	2,979	2,016	2,026		2,210	2,074	1,442	1,539							

TABLE 7

**Total and federally financed higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
U. of the Incarnate Word	543	1,338	1,800	1,469	1,982	868	1,075	869	1,076
New England C. of Optometry	544	1,026	1,223	1,150	1,978	837	928	785	1,623
Western New England U.	545	479	283	505	1,973	350	161	201	781
SUNY, Buffalo State	546	1,928	2,124	2,253	1,962	1,057	1,225	1,241	977
Hobart and William Smith Colleges	547	1,881	1,919	2,114	1,941	997	1,047	1,072	758
Mercyhurst U.	548	1,691	1,801	1,850	1,937	624	668	690	745
Fort Lewis C.	549	1,211	1,460	1,370	1,926	802	1,284	1,228	1,746
Eastern Washington U.	550	2,590	2,024	2,282	1,921	1,081	864	1,153	775
Northeastern Illinois U.	551	2,442	2,478	2,018	1,913	2,442	2,478	2,018	1,913
C. New Jersey	552	949	1,199	1,464	1,912	829	985	951	1,079
U. Puerto Rico, Cayey	553	1,359	1,870	1,974	1,881	632	963	1,210	1,202
U. Wisconsin-Green Bay	554	1,454	2,083	1,982	1,879	546	821	890	876
Manhattan C.	555	1,381	1,190	1,307	1,864	376	245	398	397
Roger Williams U.	556	1,937	1,852	1,531	1,854	1,052	1,135	1,045	1,202
U. Wisconsin-Eau Claire	557	1,227	1,530	1,318	1,852	705	748	647	909
Hawaii Pacific U.	558	2,114	1,980	1,796	1,849	1,905	1,809	1,699	1,741
U. Houston-Downtown	559	2,508	2,216	2,299	1,828	1,836	1,437	1,392	1,169
Willamette U.	560	2,723	1,953	1,546	1,817	872	549	401	896
Savannah State U.	561	1,793	1,720	1,804	1,804	1,778	1,709	1,804	1,804
SUNY, C. of Technology, Canton	562	ne	ne	ne	1,794	ne	ne	ne	1,794
Trinity C., Hartford	563	1,672	1,858	1,428	1,775	794	1,077	1,019	1,348
Lawrence Technological U.	564	1,668	1,352	1,521	1,764	479	304	405	284
Morehead State U.	565	2,434	2,028	1,883	1,754	1,839	1,651	1,674	1,727
Hamilton C.	566	1,796	2,050	1,869	1,747	129	190	144	286
Heidelberg U.	567	1,280	1,237	1,125	1,725	163	164	188	308
Erikson Institute	568	3,583	2,279	1,992	1,723	1,822	753	1,006	772
Southeastern Louisiana U.	568	2,039	1,971	2,258	1,723	1,046	803	884	795
Elizabeth City State U.	570	978	1,189	1,473	1,717	960	1,183	1,455	1,603
U. Houston-Clear Lake	571	1,251	1,370	1,363	1,716	894	718	632	865
Colby C.	572	2,240	1,852	1,536	1,672	1,213	1,093	809	750
Monmouth U.	573	1,401	1,294	1,729	1,667	100	120	110	174
CUNY, system office	574	3,253	2,619	1,704	1,664	1,977	2,241	884	768
Northwestern State U. Louisiana	575	1,623	2,058	1,940	1,663	490	579	598	738
U. Wisconsin-Oshkosh	576	1,544	1,581	1,618	1,656	1,106	1,099	1,092	1,083

TABLE 7

**Total and federally financed higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Eastern Connecticut State U.	577	1,100	1,659	1,799	1,646	36	181	177	108
Franklin W. Olin C. of Engineering	578	1,254	1,655	1,404	1,627	472	162	293	636
Vassar C.	579	4,185	1,009	1,568	1,606	4,185	909	1,055	918
U. Ana G. Mendez, Gurabo	580	1,579	3,945	2,049	1,574	471	951	946	926
Dine C.	581	1,238	1,126	347	1,570	1,238	1,126	347	1,570
Seattle U.	582	2,535	2,223	2,060	1,562	1,644	1,307	1,303	1,102
Troy U.	583	495	1,507	1,692	1,548	335	1,355	1,591	1,488
La Sierra U.	584	2,227	1,581	1,647	1,517	623	640	618	812
Kenyon C.	585	1,227	1,092	908	1,500	764	776	714	1,022
Calvin U.	586	1,937	1,577	1,497	1,490	1,363	925	888	942
Drake U.	587	1,103	865	1,201	1,488	699	463	730	1,016
East Stroudsburg U. Pennsylvania	588	813	677	797	1,440	540	460	534	538
Bentley U.	589	620	465	777	1,430	181	78	246	762
U. North Georgia	590	2,465	2,068	1,905	1,415	1,013	637	542	497
Bowie State U.	591	1,839	1,911	1,967	1,398	1,839	1,911	1,967	1,398
Union C., Schenectady	592	1,540	1,740	1,062	1,396	885	972	462	976
U. San Francisco	593	2,741	2,712	2,161	1,375	310	198	148	255
U. of the Pacific	594	3,014	3,078	1,713	1,371	2,141	2,158	1,375	1,106
CUNY, New York City C. of Technology	595	2,418	2,711	2,130	1,367	1,978	1,891	1,585	1,197
Northern Michigan U.	596	1,728	1,520	1,523	1,364	354	311	446	366
Marshall B. Ketchum U.	597	1,451	1,430	1,357	1,351	354	336	323	343
Virginia Military Institute	597	499	727	712	1,351	62	234	347	1,075
U. Puerto Rico, Humacao	599	1,168	1,195	1,456	1,321	882	828	1,279	1,137
Kettering U.	600	2,531	1,765	2,081	1,315	1,144	402	568	353
Central Connecticut State U.	601	1,190	1,381	1,572	1,314	411	540	901	663
Texas A&M U.-San Antonio	602	333	308	567	1,311	56	31	89	277
Babson C.	603	1,917	1,845	2,352	1,286	12	14	14	0
Black Hills State U.	604	1,571	2,031	1,499	1,280	1,437	1,535	1,287	1,124
Macalester C.	604	1,404	1,808	1,755	1,280	553	805	647	617
SUNY, C. Plattsburgh	604	1,604	1,729	1,452	1,280	1,254	1,197	950	824
Florida Polytechnic U.	607	1,202	2,006	1,091	1,269	181	338	252	459
West Virginia School of Osteopathic Medicine	608	428	1,951	1,311	1,255	81	414	419	423
U. Hartford	609	1,073	1,528	1,436	1,252	591	1,019	854	766
Stockton U.	610	2,560	2,634	4,236	1,246	246	553	872	486

TABLE 7

**Total and federally financed higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Connecticut C.	611	1,349	1,894	1,598	1,244	505	752	483	439
Biola U.	612	1,085 i	1,155 i	1,187 i	1,243 i	599 i	641 i	662 i	714 i
U. Puget Sound	613	900	1,039	895	1,233	525	547	401	591
Lake Superior State U.	614	633	830	935	1,226	237	190	263	605
Doane U.	615	1,092	1,093	1,123 i	1,176 i	865	928	958 i	1,034 i
U. Alaska, Southeast	615	1,641	1,341	1,264	1,176	1,636	1,235	1,098	1,046
St. Catherine U.	617	814	267	963	1,157	242	132	204	270
Utah Valley U.	618	281	151	336	1,154	181	122	289	1,028
U. Wisconsin-Platteville	619	1,013 i	1,084 i	1,104 i	1,144 i	325 i	339 i	336 i	353 i
CUNY, York C.	620	1,137	1,621	1,691	1,133	920	1,511	1,513	922
California Lutheran U.	621	1,106	1,143	630	1,129	131	256	271	518
New Mexico Highlands U.	621	952	1,333	1,090	1,129 i	741	1,128	1,034	1,085 i
Albion C.	623	1,055	1,040	1,132	1,127 i	114	180	272	289 i
Saint John's U.	624	1,208	1,191 i	1,130 i	1,125 i	0	0 i	0 i	0 i
U. of Mary Washington	625	1,242	1,315	1,393	1,123	418	577	660	485
SUNY, C. Brockport	626	1,293	1,390	1,719	1,114	672	638	781	500
SUNY, Cobleskill	627	ne	ne	625	1,106	ne	ne	559	243
Northland C.	628	ne	ne	1,101	1,096 i	ne	ne	657	697 i
Butler U.	629	938	680	679	1,071	307	211	362	741
C. Wooster	629	1,494	1,758	1,076	1,071 i	744	456	283	300 i
C. of Saint Benedict	631	1,142	1,126 i	1,069 i	1,064 i	47	45 i	43 i	46 i
Indiana State U.	632	1,323	1,682	1,471	1,042	927	1,190	949	582
Alaska Pacific U.	633	1,544	1,774	1,261	1,036	436	451	148	189
Canisius C.	633	1,069	950	1,094	1,036	1,054	943	869	597
Whitman C.	635	1,041	1,083	865	1,034	582	704	558	481
Ithaca C.	636	945	1,678	1,199	1,030	682	1,330	981	685
Clafin U.	637	1,509	1,746	1,910	1,015	1,491	1,735	1,907	1,005
Lafayette C.	637	1,815	1,554	1,390	1,015	1,133	910	755	508
Nevada State C.	639	796	701	561	1,014	789	700	532	1,012
Augustana U.	640	1,170	841	1,038	1,013	1,023	784	976	1,013
SUNY, Oswego	641	1,982	1,781	1,534	1,003	661	628	492	415
U. Wisconsin-River Falls	642	923	1,130	1,107	999	445	559	488	212
U. Maine Farmington	643	ne	526 i	961 i	996 i	ne	298 i	666	699 i
Eastern Kentucky U.	644	1,142	1,125	1,010	986	655	598	554	530

TABLE 7

**Total and federally financed higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
U. South Carolina, Beaufort	645	497	532	599	976	88	98	156	464
Gannon U.	646	409	555	351	972	88	18	32	61
Sacred Heart U.	646	ne	563	1,298	972	ne	134	691	675
Rhode Island School of Design	648	1,042 i	1,027 i	975 i	971 i	259 i	246 i	236 i	250 i
U. Hawaii, Maui C.	649	284	833	1,033	967	284	821	995	951
New C. Florida	650	875	962	999	960	151	199	114	92
Gustavus Adolphus C.	651	597	808	843	953	237	370	365	445
Hult International Business School	651	973 i	959 i	910 i	953 i	475 i	450 i	432 i	466 i
Angelo State U.	653	774	815	798	943	141	32	0	20
Liberty U.	654	1,507	1,780	1,894	937	55	535	886	120
Millersville U. Pennsylvania	655	862	782	402	931	684	574	246	785
Bethune-Cookman U.	656	1,137	735	636	928	1,137	735	529	715
Pennsylvania State U., Great Valley School of Graduate Professional Studies	657	370	419	ne	927	370	90	ne	457
Quinnipiac U.	658	994 i	980 i	930 i	926 i	493 i	467 i	448 i	475 i
Valparaiso U.	659	870	763	718	925	863	712	672	805
Siena C.	660	941	944	884	923	498	550	382	265
Keene State C.	661	1,028	1,061	1,063	919	932	1,022	1,043	894
Indiana U., South Bend	662	958	968	1,249	898	111	234	400	337
Norwich U.	663	867	992	749	890	486	768	531	588
Arcadia U.	664	430	522	1,072	889	274	341	750	371
Midwestern State U.	665	868	1,100	891	882	260	619	599	515
Albany State U.	666	1,301	1,491	1,060	880	839	1,065	836	552
Indiana Wesleyan U.	667	418	706	316	878	12	329	54	216
Saint Michael's C.	668	1,482	1,200	957	876	1,255	964	775	744
Saint Francis U.	669	650	829	878	872	8	25	173	199
U. Minnesota, Morris	670	1,080	1,234	1,004	855	285	195	213	162
Ferris State U.	671	597	366	394	853	43	93	87	565
Mills C.	672	1,850	1,643	1,541	850	928	840	1,341	683
National U. of Natural Medicine	672	1,007	1,245	1,428	850	760	760	912	523
Fairfield U.	674	1,742	1,279	1,210	849	1,222	594	365	147
Fielding Graduate U.	675	817	852	1,073	843	501	593	906	791
Ursinus C.	676	925	768	497	835	794	565	430	682
Radford U.	677	604	879	774	832	251	372	161	253
La Salle U.	678	886	1,135	818	829	69	45	14	21



TABLE 7

**Total and federally financed higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Colorado Mesa U.	679	329	372	452	823	239	189	228	664
Dominican U. California	679	840	828	786	823	744	705	677	731
Weber State U.	681	721	1,081	676	822	267	380	424	423
Polytechnic U. Puerto Rico	682	1,929	2,118	813	821	1,896	1,884	813	821
St. Olaf C.	683	1,155	1,010	1,032	816	333	255	230	271
American Samoa Community C.	684	1,158	860	1,536	815	1,150	860	1,536	815
Augsburg U.	684	1,051	991	883	815	505	496	377	408
Texas A&M U.-Central Texas	686	1,122	428	623	814	192	45	398	653
Andrews U.	687	1,149	1,126	1,033	802	378	278	263	256
Fort Hays State U.	688	1,157	1,143	1,172	800	762	694	764	482
Evergreen State C.	689	486	563	390	783	281	405	279	256
Oberlin C.	690	1,803	2,076	1,182	776	1,096	1,576	743	505
Southern Utah U.	691	763	812	955	773	610	673	741	650
Dickinson C.	692	1,068	1,037	929	767	352	324	222	305
Providence C.	693	1,215	1,042	1,092	766	960	857	913	574
U. Wisconsin-Whitewater	694	685	757	736	760	489	602	525	623
U. Michigan, Flint	695	1,237	1,448	1,247	752	159	122	276	113
Arkansas Tech U.	696	1,022	961	856	751	417	472	382	632
Benedict C.	697	1,934	1,269	649	745	1,889	1,226	635	725
U. Ana G. Mendez, Cupey	698	3,926	624	818	739	3,579	608	662	598
Roanoke C.	699	954	826	606	738	21	14	18	10
West Liberty U.	699	688	908	738	738	363	514	365	406
U. Minnesota, Rochester	701	636	639	733	730	10	34	122	103
Wheaton C., Wheaton	702	1,751	2,173	1,322	729	50	301	324	148
Denison U.	703	585	577	727	724	253	240	573	608
U. Portland	704	1,061	942	737	718	182	218	94	90
Dordt U.	705	848	920	1,106	696	715	768	1,049	594
Stonehill C.	706	977	1,019	833	695	624	671	674	526
CUNY, Medgar Evers C.	707	2,062	1,397	882	694	1,466	954	588	470
Seattle Pacific U.	708	870	724	643	683	753	647	569	630
Pennsylvania State U., Altoona	709	708	680	714	678	264	134	9	225
Salus U.	710	1,286	854	650	677	1,190	696	450	414
Arkansas C. of Health Education	711	ne	ne	900	672	ne	ne	350	69
Sewanee: U. of the South	712	676	867	864	668	9	34	35	45

TABLE 7

**Total and federally financed higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
McNeese State U.	713	416	370	585	664	84	72	54	17
Hendrix C.	714	840	902	649	651	726	805	563	584
Gettysburg C.	715	1,539	1,664	913	648	901	841	320	268
Saint Mary's U. Minnesota	716	680	603	610	640	532	491	554	538
U. Puerto Rico, Aguadilla	717	512	465	562	639	250	235	283	425
Millsaps C.	718	552	243	228	636	327	229	216	631
Maryland Institute C. of Art	719	624	494	618	634	145	96	215	309
Mayville State U.	719	267	292	509	634	267	280	384	513
U. Scranton	721	290	450	595	630	34	127	312	394
Loyola U., Maryland	722	614	663	672	628	318	383	326	339
Salve Regina U.	723	419	495	591	624	415	490	578	624
Clayton State U.	724	ne	330	346	616	ne	298	302	532
Southwestern Oklahoma State U.	725	527	504	484	614	282	218	276	419
Southern Arkansas U.	726	359	329	275	611	147	126	44	422
Stetson U.	726	393	476	670	611	295	372	479	304
SUNY, Farmingdale State C.	728	ne	ne	589	606	ne	ne	166	180
U. Ana G. Mendez, Carolina	729	865	1,099	647	602	391	696	520	489
Kalamazoo C.	730	644 i	635 i	603 i	600 i	233 i	221 i	212 i	225 i
San Juan Bautista School of Medicine	731	754	896	612	598	505	604	202	448
Salish Kootenai C.	732	1,741	1,252	807	596	1,739	1,251	802	596
Indiana U., Southeast	733	588	557	582	591	51	27	15	64
Emporia State U.	734	732	777	594	586	604	611	517	312
Emerson C.	735	2,059	1,145	919	581	308	138	84	198
U. Puerto Rico, Ponce	736	698 i	651	616 i	580	584 i	551	489 i	427
Western Colorado U.	737	491	460	571	559	202	318	403	360
Graduate School of the Stowers Institute for Medical Research	738	ne	ne	416	555	ne	ne	0	0
Indiana U., Northwest	739	200	509	488	553	6	148	176	273
Nicholls State U.	740	496	738	650	551	124	129	86	182
U. Tampa	740	313	489	559	551	41	114	197	124
Cooper Union	742	418	710	501	545	240	213	233	233
Longwood U.	743	388	353	368	544	276	236	312	412
SUNY, Potsdam	744	ne	235	ne	540	ne	135	ne	433
U. North Alabama	745	ne	ne	ne	539	ne	ne	ne	331
Coe C.	746	623	699	561	538	325	353	368	330

TABLE 7

**Total and federally financed higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed					
		2018	2019	2020	2021	2018	2019	2020	2021		
Lawrence U.	747	439	508	423	536	83	81	165	248		
Southern Oregon U.	748	660	424	493	534	351	235	237	312		
Rollins C.	749	668	626	414	533	137	160	165	165		
Eastern Illinois U.	750	743	700	540	529	398	408	256	289		
Bridgewater State U.	751	190	331	345	522	56	15	198	363		
Montana State U., Billings	751	593	545	399	522	432	435	312	429		
U. Houston system administration	753	971	965	514	513	0	0	0	0		
Hartford International U. for Religion and Peace	754	ne	ne	345	512	ne	ne	0	0		
Minot State U.	754	418	251	253	512	391	238	125	439		
Niagara U.	756	2,523	2,057	1,124	509	334	355	24	34		
Bluefield State C.	757	443	595	485	506	435	593	483	501		
Point Loma Nazarene U.	758	350	265	237	505	39	28	162	126		
Lake Erie C. of Osteopathic Medicine	759	704	565	472	502	0	0	0	0		
U. West Georgia	760	397	508	483	500	i	211	236	220	233	i
U. South Carolina Upstate	761	ne	257	437	496	ne	154	133	216		
U. Central Missouri	762	315	415	401	495	204	219	250	296		
Hamline U.	763	ne	ne	ne	493	ne	ne	ne	320		
Illinois C. of Optometry	764	179	326	478	490	80	98	97	13		
Georgia Gwinnett C.	765	522	610	478	489	308	377	338	372		
Simmons U.	766	386	472	604	487	203	293	566	466		
Loyola U., New Orleans	767	461	443	338	476	83	140	4	93		
Regis U.	767	780	706	311	476	611	543	156	328		
Oakwood U.	769	766	i	666	538	474	493	i	401	375	463
Oglala Lakota C.	770	692	683	516	473	692	683	506	473		
Ohio Northern U.	771	405	316	348	471	213	195	242	431		
Utica C.	772	420	598	549	466	0	0	0	0		
Claremont School of Theology	773	390	431	443	i	464	i	0	0	0	i
Cornell C.	773	423	397	i	370	464	235	232	i	228	264
Elmhurst U.	773	154	224	209	464	48	165	209	459		
Louisiana State U., Shreveport	776	707	572	494	462	547	366	321	273		
Minnesota State U., Moorhead	776	327	209	169	462	56	50	89	222		
Jacksonville U.	778	237	365	459	460	0	0	0	0		
A. T. Still U. of Health Sciences	779	1,492	644	656	448	788	434	462	257		
C. of the Holy Cross	780	612	477	321	445	554	449	308	425		

TABLE 7

**Total and federally financed higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Wittenberg U.	780	273	267	297	445	152	122	165	228
Keiser U.	782	480	450	423	443	0	0	0	0
Auburn U., Montgomery	783	227	325	312	442	169	222	192	201
Northwest Nazarene U.	783	686	447	408	442	483	268	178	307
Indiana U., Kokomo	785	405	393	483	441	16	6	20	27
United Tribes Technical C.	785	ne	379	976	441	ne	358	929	405
Concordia U., Wisconsin	787	352	248	293	439	315	222	235	170
Albizu U.	788	ne	ne	3,679	428	ne	ne	3,435	0
Palo Alto U.	788	964	290	417	428	302	157	179	207
Valdosta State U.	790	444	424	496	423	98	102	60	123
Touro C.	791	546	470	439	419	108	137	73	77
Southern California U. of Health Sciences	792	ne	443	420	418	ne	353	339	360
Widener U., Chester	793	534	764	586	417	84	342	277	351
Bradley U.	794	1,274	1,357	851	416	317	515	235	101
Metropolitan State U. of Denver	794	939	574	496	416	528	444	304	263
St. Norbert C.	796	411	354	304	412	31	0	7	177
Iona C.	797	ne	ne	239	411	ne	ne	239	411
Ramapo C. New Jersey	798	401	351	441	408	336	304	379	373
Southwestern U.	798	386	334	261	408	1	4	3	11
Merrimack C.	800	796	1,097	503	407	353	581	306	337
U. Wisconsin-Stout	801	902	668	555	406	521	341	175	27
Ohio Wesleyan U.	802	509	325	323	404	344	239	120	275
Whitworth U.	803	806	421	660	403	367	103	140	91
Lewis-Clark State C.	804	627	599	660	401	366	599	660	349
Governors State U.	805	698	735	508	391	698	735	508	391
Mississippi Valley State U.	805	944	986	653	391	924	977	646	379
Pennsylvania State U., Berks	807	562	273	372	382	489	261	273	293
SUNY, C. Cortland	808	463	527	255	381	258	397	215	340
Juniata C.	809	605	560	937	380	384	365	323	229
St. Bonaventure U.	810	519	1,049	585	378	44	243	265	215
John Carroll U.	811	370	658	522	374	259	480	437	324
Montana State U., Northern	812	258	236	322	372	0	28	125	148
Wilkes U.	812	653	549	968	372	186	104	518	109
Berry C.	814	301	553	646	371	15	217	207	332

TABLE 7

**Total and federally financed higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Pacific Lutheran U.	815	257	342	449	370	54	57	100	147
Pennsylvania State U., Abington	816	ne	ne	ne	369	ne	ne	ne	279
Eckerd C.	817	495	435	406	367	164	162	139	139
Life U.	818	176	207	429	364	0	0	0	0
Luther C.	819	685	451	365	363	107	186	145	154
Susquehanna U.	820	511	368	496	360	138	70	61	20
Eastern New Mexico U., Portales	821	341	292	358	355	335	237	298	323
Western Connecticut State U.	822	646	713	539	353	480	539	347	201
Agnes Scott C.	823	287	229	152	351	125	126	99	152
Northern New Mexico C.	824	844	581	404	350	844	581	404	350
Pontifical Catholic U. Puerto Rico, Ponce	824	150	287	239	350	27	85	125	186
St. Mary's C. Maryland	826	295	369	556	349	114	255	303	124
Bloomsburg U. Pennsylvania	827	727	734	735	348	286	218	389	137
Bryant U.	828	347	353	302	347	220	234	227	280
LeTourneau U.	829	737	239	271	346	95	58	125	217
MCPHS U.	829	600	606	473	346	88	122	192	85
Barry U.	831	436	295	237	343	165	60	9	40
C. Southern Nevada	832	211	232	194	335	211	198	183	327
SUNY, New Paltz	833	668	494	330	329	220	208	149	114
Rider U.	834	1,363	228	170	322	138	68	58	126
Lipscomb U.	835	ne	ne	307	321	ne	ne	206	222
Fairleigh Dickinson U.	836	917	791	656	318	896	767	560	248
Bryn Athyn C.	837	420	305	432	316	0	0	0	0
Concordia C., Moorhead	838	ne	ne	275	308	ne	ne	94	35
D'Youville C.	839	ne	383	382	306	ne	174	174	175
DePauw U.	840	308	308	253	304	43	45	39	89
Austin C.	841	384	376	342	302	68	100	116	85
Whittier C.	842	344	388	248	300	85	75	13	0
Coppin State U.	843	233	243	202	299	153	197	168	212
Saint Martin's U.	843	ne	ne	201	299	ne	ne	147	222
Southern U., New Orleans	845	597	596	310	297	405	401	256	222
McMurry U.	846	ne	ne	ne	296	ne	ne	ne	262
Slippery Rock U. Pennsylvania	847	218	213	390	295	97	57	79	50
Westmont C.	847	240	376	211	295	85	118	174	180

TABLE 7

**Total and federally financed higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Converse C.	849	235	317	185	294	169	258	148	241
Kutztown U. Pennsylvania	850	415	464	472	292	311	337	276	159
Muhlenberg C.	851	472	539	398	288	180	194	115	28
Earlham C.	852	451	456	165	287	36	19	11	8
U. Evansville	853	268	350	245	284	136	180	65	144
Northeastern State U.	854	245	432	406	279	173	360	330	179
Jacksonville State U.	855	3,008	2,429	1,244	275	2,794	2,312	1,216	245
Augustana C.	856	284	237	205	271	62	71	56	116
Future Generations U.	857	ne	286	271	270	ne	0	0	0
Lake Forest C.	858	459	416	372	267	145	73	0	0
Manchester U.	859	551	541	286	266	339	333	117	134
Centre C.	860	495	506	376	265	88	88	58	136
Washington and Lee U.	861	ne	241	214	256	ne	201	176	163
Goucher C.	862	328	450	245	255	203	207	207	165
Moravian C.	862	271	273	309	255	7	73	91	90
Pennsylvania State U., Wilkes-Barre	864	ne	ne	ne	250	ne	ne	ne	249
U. Dallas	865	ne	ne	ne	249	ne	ne	ne	5
Bard C.	866	234	235	242	248	63	63	65	67
SUNY, Empire State C.	866	ne	ne	ne	248	ne	ne	ne	0
Georgia C. and State U.	868	154	548	270	247	80	440	160	127
U. North Carolina, Pembroke	869	814	620	344	243	751	599	344	243
East Central U.	870	368	310	251	242	358	264	169	216
Linfield U.	871	326	464	319	239	136	167	149	67
U. West Alabama	871	467	462	465	239	416	390	401	219
Delta State U.	873	489	204	592	238	489	199	592	219
Truman State U.	874	332	285	296	237	71	61	60	46
Eastern Mennonite U.	875	299	209	236	233	282	181	236	151
Southeast Missouri State U.	876	511	372	232	228	248	233	148	212
Pitzer C.	877	808	468	313	225	392	140	0	0
Ouachita Baptist U.	878	368	318	268	217	266	250	234	217
Pennsylvania State U., Greater Allegheny	879	ne	ne	ne	216	ne	ne	ne	77
Alverno C.	880	219	216	237	215	0	0	0	0
Missouri Western State U.	881	500	176	306	214	350	141	276	168
SUNY, Oneonta	881	834	623	214	214	397	428	115	24

TABLE 7

**Total and federally financed higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Taylor U.	881	205	225	232	214	14	0	3	9
Gonzaga U.	884	396	187	506	212	112	45	305	107
Baldwin Wallace U.	885	392	221	ne	210	46	10	ne	20
Francis Marion U.	886	258	362	216	207	196	236	75	174
Philander Smith C.	886	426	219	208	207	426	219	208	207
Columbus State U.	888	ne	ne	261	206	ne	ne	93	77
SUNY, Delhi	889	280	634	726	201	147	166	146	132
Texas Chiropractic C.	890	215	212	201	200	0	0	0	0
U. Tennessee, Martin	891	338	363	305	199	105	88	74	22
Northern State U.	892	248	225	240	190	141	128	100	173
Northwest Missouri State U.	892	234	192	239	190	109	76	107	100
Parker U.	892	ne	ne	ne	190	ne	ne	ne	0
Wheaton C., Norton	895	185	240	281	186	185	240	281	186
Alabama C., Osteopathic Medicine	896	ne	370	303	184	ne	75	41	17
Northeast C. of Health Sciences	896	395	334	234	184	2	3	0	0
Delaware Valley U.	898	ne	ne	ne	182	ne	ne	ne	41
St. Thomas U.	899	184	268	160	176	150	138	117	123
New Jersey City U.	900	8,211	5,961	262	169	3,905	3,142	223	169
Eastern Oregon U.	901	562	472	172	162	347	381	150	143
Metropolitan State U.	901	ne	150	156	162	ne	77	80	85
Pennsylvania State U., Lehigh Valley	901	ne	ne	150	162	ne	ne	150	159
U. Southern Indiana	904	298	362	300	161	92	67	55	36
SUNY, C. Old Westbury	905	ne	ne	150	155	ne	ne	83	87
SUNY, Morrisville	905	170	ne	ne	155	0	ne	ne	0
U.S. Coast Guard Academy	905	829	708	398	155	725	565	302	154
Pennsylvania State U., New Kensington	908	ne	ne	ne	152	ne	ne	ne	129
Scripps C.	909	ne	ne	ne	150	ne	ne	ne	73
U. Lynchburg	909	ne	ne	ne	150	ne	ne	ne	86
All other surveyed institutions	-	1,640,041	639,209	582,534	ne	999,069	390,371	357,567	ne

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

<sup>a</sup> Johns Hopkins University includes the Applied Physics Laboratory (APL), with \$261,789 thousand imputed for total and \$251,135 thousand reported for federally financed R&D expenditures in computer and information sciences in FY 2021. Total expenditures by field for Johns Hopkins University are flagged as imputed because APL was unable to distribute a portion of institutionally funded R&D by field.

<sup>b</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in

2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

<sup>c</sup> The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

<sup>d</sup> The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

<sup>e</sup> The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

**Note(s):**

Institutions reporting zero expenditures in ranked total for FY 2021 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.



TABLE 8

## Total and federally financed higher education R&amp;D expenditures, by type of R&amp;D: FYs 1953–2021

(Dollars in millions)

Fiscal year	Total					Federal				
	All R&D expenditures	Basic research		Applied research and experimental development		All federal R&D expenditures	Basic research		Applied research and experimental development	
		Amount	Percent	Amount	Percent		Amount	Percent	Amount	Percent
Total, S&E <sup>a</sup>										
1953	255	110	43.1	145	56.9	138	na	na	na	na
1954	290	136	46.9	154	53.1	160	na	na	na	na
1955	312	159	51.0	153	49.0	169	na	na	na	na
1956	372	200	53.8	172	46.2	213	na	na	na	na
1957	410	240	58.5	170	41.5	229	na	na	na	na
1958	456	281	61.6	175	38.4	254	na	na	na	na
1959	526	343	65.2	183	34.8	306	na	na	na	na
1960	646	433	67.0	213	33.0	405	na	na	na	na
1961	763	536	70.2	227	29.8	500	na	na	na	na
1962	904	659	72.9	245	27.1	613	na	na	na	na
1963	1,081	814	75.3	267	24.7	760	na	na	na	na
1964	1,275	1,003	78.7	272	21.3	917	na	na	na	na
1965	1,474	1,138	77.2	336	22.8	1,073	na	na	na	na
1966	1,715	1,303	76.0	412	24.0	1,261	na	na	na	na
1967	1,921	1,457	75.8	464	24.2	1,409	na	na	na	na
1968	2,149	1,650	76.8	499	23.2	1,572	na	na	na	na
1969	2,225	1,711	76.9	514	23.1	1,600	na	na	na	na
1970	2,335	1,796	76.9	539	23.1	1,647	na	na	na	na
1971	2,500	1,914	76.6	586	23.4	1,724	na	na	na	na
1972	2,630	2,022	76.9	608	23.1	1,795	1,420	79.1	375	20.9
1973	2,884	2,053	71.2	831	28.8	1,985	1,454	73.2	531	26.8
1974	3,023	2,154	71.3	869	28.7	2,032	1,523	74.9	509	25.1
1975	3,409	2,410	70.7	999	29.3	2,288	1,695	74.1	593	25.9
1976	3,729	2,549	68.4	1,180	31.6	2,512	1,841	73.3	671	26.7
1977	4,067	2,800	68.8	1,267	31.2	2,726	2,007	73.6	720	26.4
1978 <sup>b</sup>	4,625	na	na	na	na	3,059	na	na	na	na
1979	5,366	3,619	67.4	1,747	32.6	3,598	2,577	71.6	1,022	28.4
1980	6,063	4,036	66.6	2,026	33.4	4,098	2,861	69.8	1,237	30.2
1981	6,847	4,594	67.1	2,253	32.9	4,571	3,260	71.3	1,311	28.7
1982	7,324	4,879	66.6	2,445	33.4	4,768	3,402	71.3	1,367	28.7
1983	7,882	5,303	67.3	2,579	32.7	4,989	3,547	71.1	1,442	28.9

TABLE 8

**Total and federally financed higher education R&D expenditures, by type of R&D: FYs 1953–2021**

(Dollars in millions)

Fiscal year	Total					Federal				
	All R&D expenditures	Basic research		Applied research and experimental development		All federal R&D expenditures	Basic research		Applied research and experimental development	
		Amount	Percent	Amount	Percent		Amount	Percent	Amount	Percent
1984	8,620	5,733	66.5	2,887	33.5	5,431	3,830	70.5	1,601	29.5
1985	9,687	6,556	67.7	3,131	32.3	6,064	4,343	71.6	1,722	28.4
1986	10,928	7,492	68.6	3,435	31.4	6,712	4,868	72.5	1,844	27.5
1987	12,153	8,393	69.1	3,760	30.9	7,343	5,375	73.2	1,968	26.8
1988	13,463	8,894	66.1	4,569	33.9	8,193	5,678	69.3	2,515	30.7
1989	14,979	9,793	65.4	5,186	34.6	8,993	6,195	68.9	2,797	31.1
1990	16,290	10,645	65.3	5,645	34.7	9,640	6,649	69.0	2,991	31.0
1991	17,589	11,607	66.0	5,982	34.0	10,238	7,128	69.6	3,110	30.4
1992	18,821	12,516	66.5	6,305	33.5	11,095	7,718	69.6	3,377	30.4
1993	19,954	13,303	66.7	6,651	33.3	11,960	8,398	70.2	3,562	29.8
1994	21,035	13,989	66.5	7,046	33.5	12,654	8,878	70.2	3,775	29.8
1995	22,179	14,812	66.8	7,367	33.2	13,337	9,399	70.5	3,938	29.5
1996	23,055	15,481	67.1	7,574	32.9	13,847	9,868	71.3	3,978	28.7
1997	24,380	16,602	68.1	7,778	31.9	14,321	10,316	72.0	4,006	28.0
1998	25,867	19,058	73.7	6,810	26.3	15,159	11,862	78.2	3,298	21.8
1999	27,544	20,450	74.2	7,094	25.8	16,112	12,746	79.1	3,365	20.9
2000	30,084	22,547	74.9	7,537	25.1	17,548	13,936	79.4	3,611	20.6
2001	32,801	24,392	74.4	8,409	25.6	19,227	15,038	78.2	4,188	21.8
2002	36,383	27,363	75.2	9,019	24.8	21,856	17,262	79.0	4,593	21.0
2003	40,077	30,105	75.1	9,973	24.9	24,753	19,627	79.3	5,126	20.7
2004	43,238	31,957	73.9	11,281	26.1	27,627	21,353	77.3	6,274	22.7
2005	45,774	34,353	75.0	11,421	25.0	29,187	22,885	78.4	6,302	21.6
2006	47,759	36,082	75.5	11,677	24.5	30,132	23,697	78.6	6,434	21.4
2007	49,495	37,726	76.2	11,769	23.8	30,430	24,001	78.9	6,429	21.1
2008	51,872	39,322	75.8	12,550	24.2	31,272	24,430	78.1	6,842	21.9
2009	54,863	40,913	74.6	13,950	25.4	32,576	25,025	76.8	7,551	23.2
Total, S&E and non-S&E <sup>a</sup>										
2010	61,287	40,880	66.7	20,407	33.3	37,478	25,617	68.4	11,860	31.6
2011	65,274	43,332	66.4	21,943	33.6	40,768	27,573	67.6	13,195	32.4
2012	65,729	42,939	65.3	22,790	34.7	40,142	26,704	66.5	13,438	33.5
2013	67,013	43,831	65.4	23,182	34.6	39,446	26,289	66.6	13,157	33.4
2014	67,199	43,478	64.7	23,721	35.3	37,961	25,111	66.1	12,851	33.9

TABLE 8

**Total and federally financed higher education R&D expenditures, by type of R&D: FYs 1953–2021**

(Dollars in millions)

Fiscal year	Total					Federal				
	All R&D expenditures	Basic research		Applied research and experimental development		All federal R&D expenditures	Basic research		Applied research and experimental development	
		Amount	Percent	Amount	Percent		Amount	Percent	Amount	Percent
2015	68,550	44,231	64.5	24,319	35.5	37,847	25,134	66.4	12,713	33.6
2016	71,768	45,510	63.4	26,258	36.6	38,789	25,162	64.9	13,626	35.1
2017	75,147	46,913	62.4	28,234	37.6	40,249	25,849	64.2	14,400	35.8
2018	79,023	49,617	62.8	29,406	37.2	41,861	26,902	64.3	14,959	35.7
2019	83,487	52,484	62.9	31,003	37.1	44,461	28,646	64.4	15,816	35.6
2020	86,300	54,129	62.7	32,171	37.3	46,114	29,293	63.5	16,822	36.5
2021	89,723	55,947	62.4	33,776	37.6	49,143	31,128	63.3	18,015	36.7

na = not applicable; separate data for federally financed basic research, applied research, and experimental development were not collected for these years.

S&E = science and engineering.

<sup>a</sup> Totals for FYs 1953–2009 represent R&D expenditures in S&E fields only. Beginning in FY 2010, totals and type of R&D data include R&D expenditures in S&E fields and non-S&E fields.

<sup>b</sup> FY 1978 data are estimated based on data collected from doctorate-granting institutions only.

**Note(s):**

Type of R&D estimation procedure was revised for FY 1998 and later years; hence, these data are not directly comparable to data for FY 1997 and earlier years. Prior to FY 2010, R&D expenditures by type of R&D were based on percentage estimates of basic research provided by universities and colleges. Beginning in FY 2010, institutions were asked for dollar amounts of federally funded and nonfederally funded R&D expenditures for basic research, applied research, and experimental development. Because of rounding, detail may not add to total.

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 9

**Higher education R&D expenditures, by source of funds and type of R&D: FYs 2010–21**

(Dollars in thousands)

Fiscal year	Total				Federal				Nonfederal			
	All R&D expenditures	Basic research	Applied research	Experimental development	All R&D expenditures	Basic research	Applied research	Experimental development	All R&D expenditures	Basic research	Applied research	Experimental development
2010	61,286,610	40,879,634	15,236,695	5,170,281	37,477,582	25,617,372	9,237,600	2,622,610	23,809,028	15,262,262	5,999,095	2,547,671
2011	65,274,393	43,331,577	16,461,995	5,480,821	40,768,251	27,573,247	10,361,378	2,833,626	24,506,142	15,758,330	6,100,617	2,647,195
2012	65,729,007	42,939,338	17,001,462	5,788,207	40,142,223	26,704,465	10,437,765	2,999,993	25,586,784	16,234,873	6,563,697	2,788,214
2013	67,013,138	43,830,773	17,112,016	6,070,349	39,445,931	26,289,022	10,201,310	2,955,599	27,567,207	17,541,751	6,910,706	3,114,750
2014	67,199,090	43,477,712	17,492,304	6,229,074	37,961,118	25,110,505	9,903,492	2,947,121	29,237,972	18,367,207	7,588,812	3,281,953
2015	68,549,882	44,231,040	17,731,030	6,587,812	37,846,802	25,133,806	9,826,596	2,886,400	30,703,080	19,097,234	7,904,434	3,701,412
2016	71,767,849	45,509,703	19,636,032	6,622,114	38,788,615	25,162,233	10,734,361	2,892,021	32,979,234	20,347,470	8,901,671	3,730,093
2017	75,147,113	46,912,690	21,090,656	7,143,767	40,248,750	25,848,966	11,397,092	3,002,692	34,898,363	21,063,724	9,693,564	4,141,075
2018	79,023,156	49,617,375	22,005,083	7,400,698	41,861,164	26,902,132	11,860,924	3,098,108	37,161,992	22,715,243	10,144,159	4,302,590
2019	83,487,471	52,484,290	23,294,601	7,708,580	44,461,456	28,645,621	12,527,294	3,288,541	39,026,015	23,838,669	10,767,307	4,420,039
2020	86,300,399	54,128,971	24,121,789	8,049,639	46,114,365	29,292,617	13,062,935	3,758,813	40,186,034	24,836,354	11,058,854	4,290,826
2021	89,723,447	55,947,468	25,071,537	8,704,442	49,143,460	31,128,457	13,917,379	4,097,624	40,579,987	24,819,011	11,154,158	4,606,818

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 10

**Higher education R&D expenditures, by R&D field: FYs 2010–21**

(Dollars in thousands)

Field	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
All R&D fields	61,286,610	65,274,393	65,729,007	67,013,138	67,199,090	68,549,882	71,767,849	75,147,113	79,023,156	83,487,471	86,300,399	89,723,447
Science	49,061,829	51,955,427	51,914,870	52,620,113	52,789,968	53,865,380	56,261,425	58,935,314	62,017,677	65,418,542	67,569,466	70,316,530
Computer and information sciences	1,638,047	1,742,486	1,822,321	2,068,498	1,929,144	1,963,355	2,079,944	2,192,346	2,397,731	2,637,354	2,925,725	2,951,923
Geosciences, atmospheric sciences, and ocean sciences	2,991,741	3,153,174	3,173,011	3,195,505	3,227,991	3,247,463	3,083,754	3,147,878	3,159,553	3,185,958	3,281,457	3,295,883
Atmospheric science and meteorology	429,354	481,275	476,729	493,460	501,633	573,913	626,676	623,504	608,041	590,385	612,784	624,579
Geological and earth sciences	1,083,969	1,142,630	1,168,945	1,163,847	1,159,446	1,113,727	998,082	1,084,087	1,131,923	1,121,300	1,159,846	1,242,339
Ocean sciences and marine sciences	1,021,857	1,049,630	1,025,472	1,051,418	1,071,371	1,050,143	1,097,963	1,098,634	1,061,402	1,100,768	1,136,023	1,035,519
Geosciences, atmospheric sciences, and ocean sciences nec	456,561	479,639	501,865	486,780	495,541	509,680	361,033	341,653	358,187	373,505	372,804	393,446
Life sciences	34,984,249	37,337,522	37,200,171	37,564,440	37,959,147	38,773,693	40,869,476	43,099,078	45,606,786	48,228,599	49,622,337	52,364,596
Agricultural sciences	3,011,150	3,116,840	3,300,098	3,352,448	3,392,383	3,482,285	3,294,486	3,274,597	3,307,251	3,426,773	3,625,448	3,548,896
Biological and biomedical sciences	10,946,456	11,855,468	11,611,632	11,681,013	11,706,842	11,705,091	13,030,223	13,723,239	14,517,040	15,390,830	15,764,528	16,557,201
Health sciences	19,268,085	20,398,377	20,330,413	20,453,934	20,709,435	21,298,977	22,388,131	23,990,797	25,774,623	27,267,137	28,001,450	29,884,728
Natural resources and conservation <sup>a</sup>	na	na	na	na	na	na	693,318	691,653	779,526	841,877	901,667	934,765
Life sciences nec	1,758,558	1,966,837	1,958,028	2,077,045	2,150,487	2,287,340	1,463,318	1,418,792	1,228,346	1,301,982	1,329,244	1,439,006
Mathematics and statistics	592,200	640,471	674,461	670,801	657,868	640,874	679,494	700,260	750,358	769,073	800,322	772,935
Physical sciences	4,621,772	4,768,816	4,710,125	4,646,909	4,616,416	4,659,245	4,887,988	5,050,157	5,232,227	5,550,741	5,671,806	5,740,630
Astronomy and astrophysics	573,229	583,847	706,544	558,635	567,022	626,589	621,738	648,813	668,227	734,987	780,356	741,127
Chemistry	1,748,465	1,783,604	1,748,904	1,704,123	1,724,263	1,757,548	1,773,406	1,791,523	1,866,167	1,965,466	1,929,674	1,999,546
Materials science <sup>a</sup>	na	na	na	na	na	na	172,271	227,825	254,447	259,316	252,521	285,931
Physics	1,998,732	2,108,340	1,985,954	2,097,154	2,056,272	2,047,668	2,120,550	2,155,695	2,206,620	2,327,034	2,434,432	2,463,331
Physical sciences nec	301,346	293,025	268,723	286,997	268,859	227,440	200,023	226,301	236,766	263,938	274,823	250,695
Psychology	1,077,655	1,159,180	1,179,323	1,128,352	1,143,373	1,183,638	1,221,218	1,244,637	1,259,453	1,326,351	1,360,904	1,326,030
Social sciences	1,999,942	2,063,007	2,053,656	2,173,232	2,212,011	2,319,031	2,364,783	2,554,565	2,721,777	2,805,154	2,953,545	2,842,033
Anthropology <sup>a</sup>	na	na	na	na	na	na	95,932	110,926	118,229	124,385	119,869	109,546
Economics	352,890	387,036	383,405	408,304	428,473	456,480	398,366	433,997	455,900	458,086	558,825	549,132
Political science and government	374,903	370,694	390,074	427,503	426,668	459,265	383,994	412,103	438,069	447,750	425,776	425,661
Sociology, demography, and population studies	419,895	433,484	461,011	482,284	504,959	524,683	503,610	551,853	608,723	610,102	594,688	552,551

TABLE 10

**Higher education R&D expenditures, by R&D field: FYs 2010–21**

(Dollars in thousands)

Field	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Social sciences nec	852,254	871,793	819,166	855,141	851,911	878,603	982,881	1,045,686	1,100,856	1,164,831	1,254,387	1,205,143
Sciences nec	1,156,223	1,090,771	1,101,802	1,172,376	1,044,018	1,078,081	1,074,768	946,393	889,792	915,312	953,370	1,022,500
Engineering	9,325,722	10,032,590	10,284,111	10,734,157	10,976,067	11,070,075	11,373,163	11,911,276	12,363,648	13,214,628	13,707,821	14,293,487
Aerospace, aeronautical, and astronautical engineering	635,234	667,757	662,444	689,553	662,432	734,153	883,100	990,723	1,010,502	1,170,169	1,293,452	1,451,964
Bioengineering and biomedical engineering	745,277	817,389	871,917	884,421	951,148	1,003,910	1,086,194	1,220,680	1,343,753	1,451,159	1,470,038	1,560,381
Chemical engineering	821,163	913,905	903,613	910,413	907,074	914,493	884,662	934,527	931,039	977,578	1,001,458	1,024,301
Civil engineering	1,106,759	1,208,592	1,232,944	1,296,972	1,256,871	1,287,269	1,329,959	1,302,314	1,354,775	1,432,949	1,424,780	1,482,377
Electrical, electronic, and communications engineering	2,050,292	2,206,894	2,311,665	2,408,824	2,479,755	2,492,371	2,512,529	2,726,458	2,843,796	2,937,880	3,051,845	3,080,363
Industrial and manufacturing engineering <sup>a</sup>	na	na	na	na	na	na	236,678	351,081	514,781	556,355	586,908	573,915
Mechanical engineering	1,458,382	1,556,892	1,550,151	1,647,643	1,504,172	1,514,636	1,435,885	1,535,819	1,630,541	1,704,961	1,817,413	1,881,551
Metallurgical and materials engineering	703,332	738,892	757,967	812,240	1,203,063	1,101,917	744,005	735,699	762,695	792,370	818,665	841,196
Engineering nec	1,805,283	1,922,269	1,993,410	2,084,091	2,011,552	2,021,326	2,260,151	2,113,975	1,971,766	2,191,207	2,243,262	2,397,439
Non-S&E	2,899,059	3,286,376	3,530,026	3,658,868	3,433,055	3,614,427	4,133,261	4,300,523	4,641,831	4,854,301	5,023,112	5,113,430
Business management and business administration	370,015	400,376	443,079	476,025	482,893	569,716	642,391	725,284	784,394	868,166	880,567	934,020
Communication and communications technologies	130,396	153,743	159,920	148,900	166,896	168,512	166,409	202,539	191,599	206,728	190,252	186,003
Education	993,588	1,120,766	1,233,437	1,221,364	1,245,066	1,292,666	1,340,240	1,384,278	1,503,593	1,521,681	1,602,246	1,616,705
Humanities	260,374	313,032	339,633	386,759	402,209	430,174	443,138	492,626	504,115	538,074	563,400	556,694
Law	98,109	124,779	131,514	173,479	149,235	174,692	184,339	223,824	266,377	255,794	267,655	282,662
Social work	177,331	194,667	199,046	212,331	226,062	214,205	211,549	235,295	245,113	285,646	307,106	319,273
Visual and performing arts	68,717	77,358	84,596	87,838	95,869	100,681	133,869	124,907	137,162	158,971	173,191	179,563
Non-S&E nec	800,529	901,655	938,801	952,172	664,825	663,781	1,011,326	911,770	1,009,478	1,019,241	1,038,695	1,038,510

na = not applicable; separate data for natural resources and conservation, materials science, anthropology, and industrial and manufacturing engineering were not collected prior to FY 2016.

nec = not elsewhere classified; S&E = science and engineering.

<sup>a</sup> Prior to FY 2016, expenditures for natural resources and conservation, materials science, anthropology, and industrial and manufacturing engineering were not collected separately. See the FY 2016 Technical Notes, Appendix A (<https://ncsesdata.nsf.gov/herd/2016>) for information detailing where these fields were previously reported.

**Note(s):**

FY 2016 R&D expenditure amounts in various fields may show increases or decreases from amounts reported in FY 2015 because of the reclassification of disciplines. See the FY 2016 Technical Notes, Appendix A (<https://ncsesdata.nsf.gov/herd/2016>) for specific details about discipline changes.

**Source(s):**  
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 11

**Federally financed higher education R&D expenditures, by R&D field: FYs 2010–21**

(Dollars in thousands)

Field	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
All R&D fields	37,477,582	40,768,251	40,142,223	39,445,931	37,961,118	37,846,802	38,788,615	40,248,750	41,861,164	44,461,456	46,114,365	49,143,460
Science	30,791,579	33,373,047	32,497,010	31,764,798	30,400,058	30,316,969	31,093,059	32,204,140	33,519,672	35,550,465	36,757,298	39,063,689
Computer and information sciences	1,175,343	1,294,280	1,360,430	1,552,300	1,390,677	1,419,654	1,443,376	1,497,640	1,630,076	1,794,570	2,000,015	1,994,728
Geosciences, atmospheric sciences, and ocean sciences	2,013,754	2,181,206	2,203,399	2,094,769	2,049,449	2,065,928	1,991,778	2,042,334	2,048,305	2,067,239	2,109,698	2,145,163
Atmospheric science and meteorology	338,687	383,740	389,095	397,620	389,370	453,694	513,280	503,368	485,737	460,463	470,998	484,265
Geological and earth sciences	735,094	799,906	818,785	767,849	740,590	699,066	604,474	685,673	697,973	676,590	697,295	772,157
Ocean sciences and marine sciences	666,930	705,852	673,888	662,219	663,049	647,098	665,139	656,802	649,212	698,401	713,454	640,634
Geosciences, atmospheric sciences, and ocean sciences nec	273,043	291,708	321,631	267,081	256,440	266,070	208,885	196,491	215,383	231,785	227,951	248,107
Life sciences	21,702,125	23,663,408	22,753,602	22,227,173	21,270,352	21,163,876	21,795,284	22,749,784	23,864,977	25,436,404	26,232,263	28,452,956
Agricultural sciences	957,710	1,042,740	1,137,729	1,111,006	1,084,890	1,096,949	977,258	978,308	950,634	989,763	1,073,804	1,099,585
Biological and biomedical sciences	7,579,196	8,213,534	7,741,440	7,604,784	7,238,875	7,103,719	7,699,352	8,180,020	8,572,395	9,261,709	9,338,221	10,001,728
Health sciences	12,068,659	13,184,595	12,681,515	12,287,305	11,742,489	11,722,981	12,101,391	12,688,025	13,393,534	14,173,989	14,707,735	16,138,445
Natural resources and conservation <sup>a</sup>	na	na	na	na	na	na	316,604	271,470	320,412	369,968	410,797	429,905
Life sciences nec	1,096,560	1,222,539	1,192,918	1,224,078	1,204,098	1,240,227	700,679	631,961	628,002	640,975	701,706	783,293
Mathematics and statistics	417,775	458,966	490,534	464,608	441,383	424,522	444,392	437,047	456,793	467,027	485,574	475,827
Physical sciences	3,384,275	3,527,330	3,474,586	3,311,054	3,155,599	3,111,777	3,288,095	3,384,806	3,472,575	3,691,480	3,790,522	3,852,415
Astronomy and astrophysics	405,954	408,963	535,180	400,294	380,884	403,025	417,930	441,522	454,476	514,408	542,970	509,733
Chemistry	1,200,120	1,243,767	1,213,495	1,135,108	1,080,513	1,095,296	1,097,435	1,098,023	1,130,063	1,182,645	1,167,474	1,239,825
Materials science <sup>a</sup>	na	na	na	na	na	na	111,806	142,472	162,048	165,880	157,047	174,331
Physics	1,557,421	1,660,377	1,532,612	1,567,937	1,509,916	1,463,084	1,525,643	1,549,446	1,570,701	1,657,750	1,735,972	1,767,740
Physical sciences nec	220,780	214,223	193,299	207,715	184,286	150,372	135,281	153,343	155,287	170,797	187,059	160,786
Psychology	758,520	835,448	859,500	776,402	752,501	763,632	765,247	764,711	760,316	790,279	808,948	812,660
Social sciences	901,009	947,176	915,874	897,585	917,670	921,751	899,559	932,628	937,739	938,459	968,843	955,852
Anthropology <sup>a</sup>	na	na	na	na	na	na	39,602	38,712	43,461	43,001	38,891	29,533
Economics	127,858	148,737	144,446	137,236	138,806	149,567	112,576	110,739	102,145	91,716	120,818	137,555
Political science and government	152,547	148,643	141,267	143,356	145,662	136,482	103,691	103,870	98,301	86,705	78,387	86,443
Sociology, demography, and population studies	226,462	232,834	247,739	237,479	251,800	262,243	268,827	280,561	285,148	289,744	253,097	232,318



TABLE 11

**Federally financed higher education R&D expenditures, by R&D field: FYs 2010–21**

(Dollars in thousands)

Field	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Social sciences nec	394,142	416,962	382,422	379,514	381,402	373,459	374,863	398,746	408,684	427,293	477,650	470,003
Sciences nec	438,778	465,233	439,085	440,907	422,427	445,829	465,328	395,190	348,891	365,007	361,435	374,088
Engineering	5,718,852	6,275,548	6,442,986	6,499,575	6,424,206	6,458,636	6,583,093	6,828,730	7,093,674	7,668,193	8,121,089	8,714,829
Aerospace, aeronautical, and astronautical engineering	466,991	504,536	501,722	513,134	474,601	516,035	623,637	659,882	678,126	820,576	956,477	1,110,088
Bioengineering and biomedical engineering	470,432	515,611	552,555	556,651	606,940	606,681	651,534	725,241	791,996	879,999	906,111	960,152
Chemical engineering	421,269	490,918	504,753	478,542	471,558	462,813	467,519	471,749	461,480	498,223	521,895	572,307
Civil engineering	460,880	544,992	570,303	578,390	577,958	570,405	591,837	557,671	590,886	621,055	606,804	664,620
Electrical, electronic, and communications engineering	1,373,311	1,511,458	1,601,917	1,642,771	1,742,317	1,771,541	1,742,704	1,891,348	1,981,211	2,049,393	2,143,820	2,209,153
Industrial and manufacturing engineering <sup>a</sup>	na	na	na	na	na	na	147,192	186,352	306,768	366,712	384,571	384,142
Mechanical engineering	953,244	1,032,641	1,035,551	1,061,270	946,699	957,328	861,039	937,849	993,245	1,055,663	1,160,473	1,274,012
Metallurgical and materials engineering	429,412	455,722	462,246	465,657	494,403	501,180	442,377	440,746	464,475	483,774	504,486	559,447
Engineering nec	1,143,313	1,219,670	1,213,939	1,203,160	1,109,730	1,072,653	1,055,254	957,892	825,487	892,798	936,452	980,908
Non-S&E	967,151	1,119,656	1,202,227	1,181,558	1,136,854	1,071,197	1,112,463	1,215,880	1,247,818	1,242,798	1,235,978	1,364,942
Business management and business administration	86,440	99,661	96,659	95,268	77,292	69,856	68,284	69,111	71,786	73,187	74,136	97,277
Communication and communications technologies	41,339	53,266	53,337	51,060	54,334	42,461	36,764	61,311	34,258	35,637	39,758	39,337
Education	535,744	632,117	689,060	666,506	663,543	644,087	624,470	653,074	680,404	668,080	670,060	701,430
Humanities	57,510	61,420	67,692	76,804	75,113	59,961	57,171	59,051	50,006	49,812	53,690	56,658
Law	19,338	27,388	24,575	22,522	23,731	24,414	26,081	33,021	50,933	31,866	26,695	28,777
Social work	94,422	105,661	109,359	111,693	109,172	101,662	95,300	110,679	114,294	133,072	140,779	165,278
Visual and performing arts	4,843	6,521	10,435	7,039	9,049	8,603	8,585	8,334	10,798	9,105	15,121	11,476
Non-S&E nec	127,515	133,622	151,110	150,666	124,620	120,153	195,808	221,299	235,339	242,039	215,739	264,709

na = not applicable; separate data for natural resources and conservation, materials science, anthropology, and industrial and manufacturing engineering were not collected prior to FY 2016.

nec = not elsewhere classified; S&E = science and engineering.

<sup>a</sup> Prior to FY 2016, expenditures for natural resources and conservation, materials science, anthropology, and industrial and manufacturing engineering were not collected separately. See the FY 2016 Technical Notes, Appendix A (<https://ncesdata.nsf.gov/herd/2016>) for information detailing where these fields were previously reported.

**Note(s):**

FY 2016 R&D expenditure amounts in various fields may show increases or decreases from amounts reported in FY 2015 because of the reclassification of disciplines. See the FY 2016 Technical Notes, Appendix A (<https://ncesdata.nsf.gov/herd/2016>) for specific details about discipline changes.

**Source(s):**  
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 12

**Nonfederally financed higher education R&D expenditures, by R&D field: FYs 2010–21**

(Dollars in thousands)

Field	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
All R&D fields	23,809,028	24,506,142	25,586,784	27,567,207	29,237,972	30,703,080	32,979,234	34,898,363	37,161,992	39,026,015	40,186,034	40,579,987
Science	18,270,250	18,582,380	19,417,860	20,855,315	22,389,910	23,548,411	25,168,366	26,731,174	28,498,005	29,868,077	30,812,168	31,252,841
Computer and information sciences	462,704	448,206	461,891	516,198	538,467	543,701	636,568	694,706	767,655	842,784	925,710	957,195
Geosciences, atmospheric sciences, and ocean sciences	977,987	971,968	969,612	1,100,736	1,178,542	1,181,535	1,091,976	1,105,544	1,111,248	1,118,719	1,171,759	1,150,720
Atmospheric science and meteorology	90,667	97,535	87,634	95,840	112,263	120,219	113,396	120,136	122,304	129,922	141,786	140,314
Geological and earth sciences	348,875	342,724	350,160	395,998	418,856	414,661	393,608	398,414	433,950	444,710	462,551	470,182
Ocean sciences and marine sciences	354,927	343,778	351,584	389,199	408,322	403,045	432,824	441,832	412,190	402,367	422,569	394,885
Geosciences, atmospheric sciences, and ocean sciences nec	183,518	187,931	180,234	219,699	239,101	243,610	152,148	145,162	142,804	141,720	144,853	145,339
Life sciences	13,282,124	13,674,114	14,446,569	15,337,267	16,688,795	17,609,817	19,074,192	20,349,294	21,741,809	22,792,195	23,390,074	23,911,640
Agricultural sciences	2,053,440	2,074,100	2,162,369	2,241,442	2,307,493	2,385,336	2,317,228	2,296,289	2,356,617	2,437,010	2,551,644	2,449,311
Biological and biomedical sciences	3,367,260	3,641,934	3,870,192	4,076,229	4,467,967	4,601,372	5,330,871	5,543,219	5,944,645	6,129,121	6,426,307	6,555,473
Health sciences	7,199,426	7,213,782	7,648,898	8,166,629	8,966,946	9,575,996	10,286,740	11,302,772	12,381,089	13,093,148	13,293,715	13,746,283
Natural resources and conservation <sup>a</sup>	na	na	na	na	na	na	376,714	420,183	459,114	471,909	490,870	504,860
Life sciences nec	661,998	744,298	765,110	852,967	946,389	1,047,113	762,639	786,831	600,344	661,007	627,538	655,713
Mathematics and statistics	174,425	181,505	183,927	206,193	216,485	216,352	235,102	263,213	293,565	302,046	314,748	297,108
Physical sciences	1,237,497	1,241,486	1,235,539	1,335,855	1,460,817	1,547,468	1,599,893	1,665,351	1,759,652	1,859,261	1,881,284	1,888,215
Astronomy and astrophysics	167,275	174,884	171,364	158,341	186,138	223,564	203,808	207,291	213,751	220,579	237,386	231,394
Chemistry	548,345	539,837	535,409	569,015	643,750	662,252	675,971	693,500	736,104	782,821	762,200	759,721
Materials science <sup>a</sup>	na	na	na	na	na	na	60,465	85,353	92,399	93,436	95,474	111,600
Physics	441,311	447,963	453,342	529,217	546,356	584,584	594,907	606,249	635,919	669,284	698,460	695,591
Physical sciences nec	80,566	78,802	75,424	79,282	84,573	77,068	64,742	72,958	81,479	93,141	87,764	89,909
Psychology	319,135	323,732	319,823	351,950	390,872	420,006	455,971	479,926	499,137	536,072	551,956	513,370
Social sciences	1,098,933	1,115,831	1,137,782	1,275,647	1,294,341	1,397,280	1,465,224	1,621,937	1,784,038	1,866,695	1,984,702	1,886,181
Anthropology <sup>a</sup>	na	na	na	na	na	na	56,330	72,214	74,768	81,384	80,978	80,013
Economics	225,032	238,299	238,959	271,068	289,667	306,913	285,790	323,258	353,755	366,370	438,007	411,577
Political science and government	222,356	222,051	248,807	284,147	281,006	322,783	280,303	308,233	339,768	361,045	347,389	339,218
Sociology, demography, and population studies	193,433	200,650	213,272	244,805	253,159	262,440	234,783	271,292	323,575	320,358	341,591	320,233

TABLE 12

**Nonfederally financed higher education R&D expenditures, by R&D field: FYs 2010–21**

(Dollars in thousands)

Field	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Social sciences nec	458,112	454,831	436,744	475,627	470,509	505,144	608,018	646,940	692,172	737,538	776,737	735,140
Sciences nec	717,445	625,538	662,717	731,469	621,591	632,252	609,440	551,203	540,901	550,305	591,935	648,412
Engineering	3,606,870	3,757,042	3,841,125	4,234,582	4,551,861	4,611,439	4,790,070	5,082,546	5,269,974	5,546,435	5,586,732	5,578,658
Aerospace, aeronautical, and astronautical engineering	168,243	163,221	160,722	176,419	187,831	218,118	259,463	330,841	332,376	349,593	336,975	341,876
Bioengineering and biomedical engineering	274,845	301,778	319,362	327,770	344,208	397,229	434,660	495,439	551,757	571,160	563,927	600,229
Chemical engineering	399,894	422,987	398,860	431,871	435,516	451,680	417,143	462,778	469,559	479,355	479,563	451,994
Civil engineering	645,879	663,600	662,641	718,582	678,913	716,864	738,122	744,643	763,889	811,894	817,976	817,757
Electrical, electronic, and communications engineering	676,981	695,436	709,748	766,053	737,438	720,830	769,825	835,110	862,585	888,487	908,025	871,210
Industrial and manufacturing engineering <sup>a</sup>	na	na	na	na	na	na	89,486	164,729	208,013	189,643	202,337	189,773
Mechanical engineering	505,138	524,251	514,600	586,373	557,473	557,308	574,846	597,970	637,296	649,298	656,940	607,539
Metallurgical and materials engineering	273,920	283,170	295,721	346,583	708,660	600,737	301,628	294,953	298,220	308,596	314,179	281,749
Engineering nec	661,970	702,599	779,471	880,931	901,822	948,673	1,204,897	1,156,083	1,146,279	1,298,409	1,306,810	1,416,531
Non-S&E	1,931,908	2,166,720	2,327,799	2,477,310	2,296,201	2,543,230	3,020,798	3,084,643	3,394,013	3,611,503	3,787,134	3,748,488
Business management and business administration	283,575	300,715	346,420	380,757	405,601	499,860	574,107	656,173	712,608	794,979	806,431	836,743
Communication and communications technologies	89,057	100,477	106,583	97,840	112,562	126,051	129,645	141,228	157,341	171,091	150,494	146,666
Education	457,844	488,649	544,377	554,858	581,523	648,579	715,770	731,204	823,189	853,601	932,186	915,275
Humanities	202,864	251,612	271,941	309,955	327,096	370,213	385,967	433,575	454,109	488,262	509,710	500,036
Law	78,771	97,391	106,939	150,957	125,504	150,278	158,258	190,803	215,444	223,928	240,960	253,885
Social work	82,909	89,006	89,687	100,638	116,890	112,543	116,249	124,616	130,819	152,574	166,327	153,995
Visual and performing arts	63,874	70,837	74,161	80,799	86,820	92,078	125,284	116,573	126,364	149,866	158,070	168,087
Non-S&E nec	673,014	768,033	787,691	801,506	540,205	543,628	815,518	690,471	774,139	777,202	822,956	773,801

na = not applicable; separate data for natural resources and conservation, materials science, anthropology, and industrial and manufacturing engineering were not collected prior to FY 2016.

nec = not elsewhere classified; S&E = science and engineering.

<sup>a</sup> Prior to FY 2016, expenditures for natural resources and conservation, materials science, anthropology, and industrial and manufacturing engineering were not collected separately. See the FY 2016 Technical Notes, Appendix A (<https://ncesdata.nsf.gov/herd/2016>) for information detailing where these fields were previously reported.

**Note(s):**

FY 2016 R&D expenditure amounts in various fields may show increases or decreases from amounts reported in FY 2015 because of the reclassification of disciplines. See the FY 2016 Technical Notes, Appendix A (<https://ncesdata.nsf.gov/herd/2016>) for specific details about discipline changes.

**Source(s):**  
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 13

**Higher education R&D expenditures, by source of funds and R&D field: FY 2021**

(Dollars in thousands)

Field	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
All R&D fields	89,723,447	49,143,460	4,736,015	22,448,362	5,115,480	5,590,273	2,689,857
Science	70,316,530	39,063,689	3,452,180	17,066,562	3,943,191	4,685,613	2,105,295
Computer and information sciences	2,951,923	1,994,728	69,099	597,889	150,733	77,519	61,955
Geosciences, atmospheric sciences, and ocean sciences	3,295,883	2,145,163	206,815	656,303	76,015	130,770	80,817
Atmospheric science and meteorology	624,579	484,265	18,889	93,352	6,711	11,714	9,648
Geological and earth sciences	1,242,339	772,157	61,483	279,698	36,697	51,507	40,797
Ocean sciences and marine sciences	1,035,519	640,634	98,407	209,010	21,115	44,793	21,560
Geosciences, atmospheric sciences, and ocean sciences nec	393,446	248,107	28,036	74,243	11,492	22,756	8,812
Life sciences	52,364,596	28,452,956	2,734,533	12,432,608	3,445,313	3,649,996	1,649,190
Agricultural sciences	3,548,896	1,099,585	921,680	1,134,280	132,301	137,492	123,558
Biological and biomedical sciences	16,557,201	10,001,728	568,953	3,806,544	713,278	1,085,048	381,650
Health sciences	29,884,728	16,138,445	1,030,872	6,809,105	2,530,643	2,292,843	1,082,820
Natural resources and conservation	934,765	429,905	140,192	271,302	20,765	50,191	22,410
Life sciences nec	1,439,006	783,293	72,836	411,377	48,326	84,422	38,752
Mathematics and statistics	772,935	475,827	27,009	212,549	12,149	37,883	7,518
Physical sciences	5,740,630	3,852,415	113,326	1,247,864	171,349	239,440	116,236
Astronomy and astrophysics	741,127	509,733	6,161	140,021	3,561	49,922	31,729
Chemistry	1,999,546	1,239,825	47,846	516,656	73,249	83,572	38,398
Materials science	285,931	174,331	5,632	67,374	25,498	8,048	5,048
Physics	2,463,331	1,767,740	43,643	475,272	46,537	92,923	37,216
Physical sciences nec	250,695	160,786	10,044	48,541	22,504	4,975	3,845
Psychology	1,326,030	812,660	44,942	358,712	12,198	77,025	20,493
Social sciences	2,842,033	955,852	168,142	1,109,283	44,268	427,640	136,848
Anthropology	109,546	29,533	3,428	62,278	1,892	7,255	5,160
Economics	549,132	137,555	42,387	215,777	12,495	101,381	39,537
Political science and government	425,661	86,443	18,063	196,891	5,115	88,338	30,811
Sociology, demography, and population studies	552,551	232,318	32,173	191,496	6,208	74,055	16,301
Social sciences nec	1,205,143	470,003	72,091	442,841	18,558	156,611	45,039
Sciences nec	1,022,500	374,088	88,314	451,354	31,166	45,340	32,238
Engineering	14,293,487	8,714,829	946,273	2,794,243	1,042,309	377,776	418,057
Aerospace, aeronautical, and astronautical engineering	1,451,964	1,110,088	28,477	149,857	128,926	3,196	31,420

TABLE 13

**Higher education R&D expenditures, by source of funds and R&D field: FY 2021**

(Dollars in thousands)

Field	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Bioengineering and biomedical engineering	1,560,381	960,152	55,254	359,195	62,568	88,596	34,616
Chemical engineering	1,024,301	572,307	41,478	233,601	106,178	43,933	26,804
Civil engineering	1,482,377	664,620	257,027	388,675	80,954	42,085	49,016
Electrical, electronic, and communications engineering	3,080,363	2,209,153	83,239	461,916	174,968	75,350	75,737
Industrial and manufacturing engineering	573,915	384,142	29,643	117,343	25,953	12,458	4,376
Mechanical engineering	1,881,551	1,274,012	64,449	327,594	143,926	33,715	37,855
Metallurgical and materials engineering	841,196	559,447	27,752	152,026	57,551	19,978	24,442
Engineering nec	2,397,439	980,908	358,954	604,036	261,285	58,465	133,791
Non-S&E	5,113,430	1,364,942	337,562	2,587,557	129,980	526,884	166,505
Business management and business administration	934,020	97,277	40,584	669,753	30,096	46,271	50,039
Communication and communications technologies	186,003	39,337	10,502	95,725	5,707	29,296	5,436
Education	1,616,705	701,430	132,307	517,116	41,470	197,170	27,212
Humanities	556,694	56,658	15,659	391,841	11,756	59,858	20,922
Law	282,662	28,777	15,473	161,967	5,933	54,897	15,615
Social work	319,273	165,278	29,196	84,104	3,327	34,434	2,934
Visual and performing arts	179,563	11,476	6,267	139,743	4,895	10,342	6,840
Non-S&E nec	1,038,510	264,709	87,574	527,308	26,796	94,616	37,507

nec = not elsewhere classified; S&amp;E = science and engineering.

**Note(s):**

This table includes only institutions reporting \$1 million or more in total R&D expenditures in 2020. Institutions reporting less than \$1 million in total R&D expenditures in 2020 completed a shorter version of the survey form in FY 2021, and that form did not collect R&D expenditures by source and detailed field. For R&D expenditures by major field at institutions completing the shorter version of the survey, see [table 83](#).

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2021.

**TABLE 14**  
**Federally financed higher education R&D expenditures, by federal agency and R&D field: FY 2021**

(Dollars in thousands)

Field	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other <sup>a</sup>
All R&D fields	49,143,460	7,363,495	2,218,358	27,532,379	1,768,703	5,410,561	1,302,288	3,547,676
Science	39,063,689	3,597,249	1,251,321	26,181,063	1,199,758	3,704,300	1,189,603	1,940,395
Computer and information sciences	1,994,728	928,400	57,159	139,417	23,132	707,395	8,684	130,541
Geosciences, atmospheric sciences, and ocean sciences	2,145,163	236,137	111,482	53,852	453,130	653,911	32,879	603,772
Atmospheric science and meteorology	484,265	68,114	21,933	2,362	150,262	73,350	1,800	166,444
Geological and earth sciences	772,157	62,003	74,207	4,668	230,496	251,254	17,605	131,924
Ocean sciences and marine sciences	640,634	93,993	8,197	8,143	45,096	271,474	3,223	210,508
Geosciences, atmospheric sciences, and ocean sciences nec	248,107	12,027	7,145	38,679	27,276	57,833	10,251	94,896
Life sciences	28,452,956	1,421,696	239,568	24,181,089	89,649	734,797	1,068,850	717,307
Agricultural sciences	1,099,585	19,218	42,978	141,437	5,478	66,185	725,870	98,419
Biological and biomedical sciences	10,001,728	442,545	129,637	8,513,706	30,566	524,700	181,468	179,106
Health sciences	16,138,445	847,117	15,434	14,823,315	42,877	72,526	33,488	303,688
Natural resources and conservation	429,905	94,289	44,570	19,981	9,384	48,017	109,621	104,043
Life sciences nec	783,293	18,527	6,949	682,650	1,344	23,369	18,403	32,051
Mathematics and statistics	475,827	152,714	9,301	68,098	2,895	205,576	4,813	32,430
Physical sciences	3,852,415	652,400	794,714	642,915	588,836	1,070,906	6,267	96,377
Astronomy and astrophysics	509,733	19,188	11,758	538	361,877	110,762	55	5,555
Chemistry	1,239,825	135,906	158,928	554,214	17,072	346,826	3,520	23,359
Materials science	174,331	75,358	29,578	8,713	2,637	48,568	531	8,946
Physics	1,767,740	388,232	565,051	62,605	183,582	516,595	1,345	50,330
Physical sciences nec	160,786	33,716	29,399	16,845	23,668	48,155	816	8,187
Psychology	812,660	53,146	1,173	584,427	18,586	80,771	4,848	69,709
Social sciences	955,852	69,670	10,741	407,047	17,391	154,079	57,977	238,947
Anthropology	29,533	3,793	1,083	3,396	65	12,858	911	7,427
Economics	137,555	3,678	5,636	27,872	30	25,971	38,716	35,652
Political science and government	86,443	11,484	1,405	17,289	1,234	20,147	2,997	31,887
Sociology, demography, and population studies	232,318	11,952	7	131,453	357	34,809	5,190	48,550
Social sciences nec	470,003	38,763	2,610	227,037	15,705	60,294	10,163	115,431
Sciences nec	374,088	83,086	27,183	104,218	6,139	96,865	5,285	51,312
Engineering	8,714,829	3,703,852	959,702	1,028,791	560,071	1,391,029	75,250	996,134
Aerospace, aeronautical, and astronautical engineering	1,110,088	689,207	22,505	6,859	215,099	39,014	625	136,779
Bioengineering and biomedical engineering	960,152	158,176	14,020	624,742	9,237	96,008	18,886	39,083
Chemical engineering	572,307	101,384	167,568	91,275	10,121	146,621	7,229	48,109
Civil engineering	664,620	82,386	93,917	27,599	14,779	147,225	10,677	288,037
Electrical, electronic, and communications engineering	2,209,153	1,287,744	177,223	89,522	124,523	389,034	4,398	136,709



TABLE 14

**Federally financed higher education R&D expenditures, by federal agency and R&D field: FY 2021**

(Dollars in thousands)

Field	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other <sup>a</sup>
Industrial and manufacturing engineering	384,142	211,252	24,617	11,003	23,441	41,947	1,617	70,265
Mechanical engineering	1,274,012	613,129	166,393	81,829	97,199	211,624	5,026	98,812
Metallurgical and materials engineering	559,447	231,399	126,426	23,998	14,353	115,032	1,596	46,643
Engineering nec	980,908	329,175	167,033	71,964	51,319	204,524	25,196	131,697
Non-S&E	1,364,942	62,394	7,335	322,525	8,874	315,232	37,435	611,147
Business management and business administration	97,277	11,651	1,195	7,418	257	18,374	4,822	53,560
Communication and communications technologies	39,337	5,114	868	13,281	467	12,849	367	6,391
Education	701,430	13,884	903	90,066	5,261	218,677	4,391	368,248
Humanities	56,658	4,673	448	13,244	10	11,763	356	26,164
Law	28,777	683	135	7,479	0	1,686	490	18,304
Social work	165,278	1,899	26	148,065	604	1,731	1,399	11,554
Visual and performing arts	11,476	251	116	1,804	2	2,207	380	6,716
Non-S&E nec	264,709	24,239	3,644	41,168	2,273	47,945	25,230	120,210

DOD = Department of Defense; DOE = Department of Energy; HHS = Department of Health and Human Services; NASA = National Aeronautics and Space Administration; NSF = National Science Foundation; nec = not elsewhere classified; S&E = science and engineering; USDA = Department of Agriculture.

<sup>a</sup> Includes all other agencies reported.

**Note(s):**

This table includes only institutions reporting \$1 million or more in total R&D expenditures in 2020. Institutions reporting less than \$1 million in total R&D expenditures in 2020 completed a shorter version of the survey form in FY 2021, and that form did not collect federally financed R&D expenditures by source and detailed field. For federally financed R&D expenditures by major field at institutions completing the shorter version of the survey, see [table 84](#).

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2021.

**TABLE 15**  
**Higher education R&D expenditures from foreign sources, by highest degree granted and institutional control: FYs 2010–21 and by source of foreign funds for FYs 2016–21**

(Dollars in thousands)

Source of foreign funds, highest degree granted, and institutional control	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
<b>All institutions</b>												
All foreign funds	642,858	719,255	797,787	979,476	1,003,537	1,065,671	1,184,389	1,220,391	1,253,935	1,272,685	1,307,468	1,343,381
Foreign government	na	na	na	na	na	na	164,518	172,565	249,419	272,448	296,393	285,738
Business	na	na	na	na	na	na	491,514	515,587	548,199	577,451	627,920	659,378
Nonprofit organizations	na	na	na	na	na	na	304,188	319,905	274,878	276,257	252,412	268,334
Higher education institutions	na	na	na	na	na	na	115,190	112,474	115,944	109,782	107,389	104,444
All other sources	na	na	na	na	na	na	108,979	99,860	65,495	36,747	23,354	25,487
<b>Doctorate</b>												
All foreign funds	640,490	715,437	795,057	975,436	999,123	1,060,276	1,170,716	1,215,835	1,247,426	1,268,123	1,302,470	1,339,550
Foreign government	na	na	na	na	na	na	162,717	172,175	248,868	272,018	296,169	285,615
Business	na	na	na	na	na	na	482,010	513,127	544,876	575,756	625,397	657,073
Nonprofit organizations	na	na	na	na	na	na	303,535	319,351	274,216	275,353	251,384	267,716
Higher education institutions	na	na	na	na	na	na	114,705	112,133	115,087	108,816	106,674	104,236
All other sources	na	na	na	na	na	na	107,749	99,049	64,379	36,180	22,846	24,910
<b>Nondoctorate</b>												
All foreign funds	2,368	3,818	2,730	4,040	4,414	5,395	13,673	4,556	6,509	4,562	4,998	3,831
Foreign government	na	na	na	na	na	na	1,801	390	551	430	224	123
Business	na	na	na	na	na	na	9,504	2,460	3,323	1,695	2,523	2,305
Nonprofit organizations	na	na	na	na	na	na	653	554	662	904	1,028	618
Higher education institutions	na	na	na	na	na	na	485	341	857	966	715	208
All other sources	na	na	na	na	na	na	1,230	811	1,116	567	508	577
<b>Public</b>												
All foreign funds	381,519	418,115	437,190	493,577	518,759	528,668	546,467	565,881	594,110	597,565	625,204	649,538
Foreign government	na	na	na	na	na	na	57,207	51,539	117,039	89,621	78,175	65,114
Business	na	na	na	na	na	na	264,560	262,763	277,456	308,036	355,513	380,151
Nonprofit organizations	na	na	na	na	na	na	154,315	175,527	120,643	121,564	113,818	126,564
Higher education institutions	na	na	na	na	na	na	51,102	56,748	60,384	61,112	64,323	65,222
All other sources	na	na	na	na	na	na	19,283	19,304	18,588	17,232	13,375	12,487
<b>Private</b>												
All foreign funds	261,339	301,140	360,597	485,899	484,778	537,003	637,922	654,510	659,825	675,120	682,264	693,843
Foreign government	na	na	na	na	na	na	107,311	121,026	132,380	182,827	218,218	220,624
Business	na	na	na	na	na	na	226,954	252,824	270,743	269,415	272,407	279,227
Nonprofit organizations	na	na	na	na	na	na	149,873	144,378	154,235	154,693	138,594	141,770
Higher education institutions	na	na	na	na	na	na	64,088	55,726	55,560	48,670	43,066	39,222
All other sources	na	na	na	na	na	na	89,696	80,556	46,907	19,515	9,979	13,000

na = not applicable; separate data for source of foreign funds were not collected for these years.

**Note(s):**

Prior to FY 2016, only total R&D expenditures from foreign sources was collected. Beginning in FY 2016, institutions were asked for the source of foreign funding.

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 16

**Externally funded higher education R&D expenditures, by highest degree granted, institutional control, and type of agreement: FYs 2010–21**

(Dollars in thousands)

Type of agreement, highest degree granted, and institutional control	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
All institutions												
All externally funded R&D	49,344,078	52,694,073	52,141,609	52,076,758	51,463,714	51,957,808	53,863,644	56,297,272	58,844,008	62,415,228	64,310,608	67,275,085
Contracts	10,830,892	11,058,454	11,415,327	11,590,645	11,604,030	12,081,208	12,234,270	12,901,360	13,486,631	14,581,333	15,462,140	16,124,550
Grants, reimbursements, and all other agreements	38,513,186	41,635,619	40,726,282	40,486,113	39,859,684	39,876,600	41,629,374	43,395,912	45,357,377	47,833,895	48,848,468	51,150,535
Doctorate												
All externally funded R&D	48,504,214	51,725,752	51,314,264	51,439,912	50,881,747	51,452,527	53,025,240	55,771,086	58,345,484	61,909,378	63,806,321	66,754,148
Contracts	10,667,147	10,875,191	11,271,111	11,494,039	11,513,041	12,015,261	12,064,405	12,844,764	13,429,501	14,508,151	15,383,747	16,052,925
Grants, reimbursements, and all other agreements	37,837,067	40,850,561	40,043,153	39,945,873	39,368,706	39,437,266	40,960,835	42,926,322	44,915,983	47,401,227	48,422,574	50,701,223
Nondoctorate												
All externally funded R&D	839,864	968,321	827,345	636,846	581,967	505,281	838,404	526,186	498,524	505,850	504,287	520,937
Contracts	163,745	183,263	144,216	96,606	90,989	65,947	169,865	56,596	57,130	73,182	78,393	71,625
Grants, reimbursements, and all other agreements	676,119	785,058	683,129	540,240	490,978	439,334	668,539	469,590	441,394	432,668	425,894	449,312
Public												
All externally funded R&D	31,934,135	34,048,019	33,752,723	33,705,035	33,067,468	33,292,859	34,453,166	35,917,977	37,546,488	39,665,446	41,016,849	42,622,784
Contracts	7,153,099	7,274,860	7,507,054	7,835,919	7,697,443	7,963,143	7,936,739	8,363,518	8,876,201	9,551,650	10,129,575	10,359,964
Grants, reimbursements, and all other agreements	24,781,036	26,773,159	26,245,669	25,869,116	25,370,025	25,329,716	26,516,427	27,554,459	28,670,287	30,113,796	30,887,274	32,262,820
Private												
All externally funded R&D	17,409,943	18,646,054	18,388,886	18,371,723	18,396,246	18,664,949	19,410,478	20,379,295	21,297,520	22,749,782	23,293,759	24,652,301
Contracts	3,677,793	3,783,594	3,908,273	3,754,726	3,906,587	4,118,065	4,297,531	4,537,842	4,610,430	5,029,683	5,332,565	5,764,586
Grants, reimbursements, and all other agreements	13,732,150	14,862,460	14,480,613	14,616,997	14,489,659	14,546,884	15,112,947	15,841,453	16,687,090	17,720,099	17,961,194	18,887,715

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 17

**Higher education R&D expenditures, by type of cost, highest degree granted, and institutional control: FYs 2010–21**

(Dollars in thousands)

Type of cost, highest degree granted, and institutional control	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
All institutions												
All R&D	61,286,610	65,274,393	65,729,007	67,013,138	67,199,090	68,549,882	71,767,849	75,147,113	79,023,156	83,487,471	86,300,399	89,723,447
Direct costs	46,159,649	49,311,567	49,897,854	51,089,463	51,564,639	52,612,273	55,281,411	57,935,294	60,776,056	64,345,771	66,526,173	69,185,932
Salaries, wages, and fringe benefits	25,929,799	27,860,610	28,339,070	28,802,181	29,118,949	29,895,112	31,455,447	33,230,175	34,674,118	36,564,673	38,725,994	40,337,368
Software	105,970	116,422	103,456	107,685	96,517	117,007	113,524	109,627	121,837	136,474	158,535	172,603
Noncapitalized software	88,456	98,438	93,250	95,652	84,275	93,204	95,136	98,602	110,774	120,920	144,277	158,043
Capitalized software	17,514	17,984	10,206	12,033	12,242	23,803	18,388	11,025	11,063	15,554	14,258	14,560
Capitalized equipment	2,148,421	2,256,025	2,040,534	2,254,429	2,036,407	2,119,877	2,169,465	2,193,933	2,148,659	2,439,950	2,588,908	2,662,006
Passed through to subrecipients	4,956,929	5,436,850	5,531,421	5,689,087	5,702,921	5,633,794	5,697,047	5,915,370	6,315,795	6,717,010	7,051,008	7,576,989
Other direct costs	13,018,530	13,641,660	13,883,373	14,236,081	14,609,845	14,846,483	15,845,928	16,486,189	17,515,647	18,487,664	18,001,728	18,436,966
Indirect costs	15,126,961	15,962,826	15,831,153	15,923,675	15,634,451	15,937,609	16,486,438	17,211,819	18,247,100	19,141,700	19,774,226	20,537,515
Recovered	10,465,893	11,352,339	11,221,624	11,220,177	10,873,913	11,100,902	11,452,294	12,021,614	12,745,091	13,607,908	14,036,678	14,660,733
Unrecovered	4,661,068	4,610,487	4,609,529	4,703,498	4,760,538	4,836,707	5,034,144	5,190,205	5,502,009	5,533,792	5,737,548	5,876,782
Doctorate												
All R&D	60,266,691	64,064,133	64,700,201	66,217,717	66,447,854	67,890,206	70,718,154	74,440,281	78,354,069	82,802,531	85,612,050	89,051,221
Direct costs	45,266,156	48,282,499	49,022,847	50,398,617	50,915,499	52,041,133	54,363,455	57,313,036	60,194,358	63,754,151	65,934,205	68,608,387
Salaries, wages, and fringe benefits	25,494,721	27,357,645	27,906,910	28,462,160	28,785,382	29,604,360	31,105,634	32,912,108	34,362,624	36,255,288	38,415,021	40,018,516
Software	98,119	110,285	95,627	102,523	91,341	111,641	108,637	107,203	119,943	134,734	156,190	169,022
Noncapitalized software	80,940	92,808	86,115	90,658	79,637	88,076	90,540	96,559	109,021	119,334	142,259	154,870
Capitalized software	17,179	17,477	9,512	11,865	11,704	23,565	18,097	10,644	10,922	15,400	13,931	14,152
Capitalized equipment	2,086,956	2,192,296	1,995,345	2,219,549	2,011,006	2,095,655	2,039,262	2,166,672	2,124,751	2,418,412	2,565,614	2,633,582
Passed through to subrecipients	4,901,412	5,371,178	5,469,627	5,647,933	5,663,439	5,609,174	5,659,469	5,884,044	6,286,293	6,688,864	7,022,850	7,548,281
Other direct costs	12,684,948	13,251,095	13,555,338	13,966,452	14,364,331	14,620,303	15,450,453	16,243,009	17,300,747	18,256,853	17,774,530	18,238,986
Indirect costs	15,000,535	15,781,634	15,677,354	15,819,100	15,532,355	15,849,073	16,354,699	17,127,245	18,159,711	19,048,380	19,677,845	20,442,834
Recovered	10,382,463	11,236,113	11,125,166	11,147,825	10,808,902	11,040,967	11,383,623	11,965,789	12,685,461	13,547,070	13,973,862	14,597,199
Unrecovered	4,618,072	4,545,521	4,552,188	4,671,275	4,723,453	4,808,106	4,971,076	5,161,456	5,474,250	5,501,310	5,703,983	5,845,635
Nondoctorate												
All R&D	1,019,919	1,210,260	1,028,806	795,421	751,236	659,676	1,049,695	706,832	669,087	684,940	688,349	672,226
Direct costs	893,493	1,029,068	875,007	690,846	649,140	571,140	917,956	622,258	581,698	591,620	591,968	577,545
Salaries, wages, and fringe benefits	435,078	502,965	432,160	340,021	333,567	290,752	349,813	318,067	311,494	309,385	310,973	318,852
Software	7,851	6,137	7,829	5,162	5,176	5,366	4,887	2,424	1,894	1,740	2,345	3,581

TABLE 17

**Higher education R&D expenditures, by type of cost, highest degree granted, and institutional control: FYs 2010–21**

(Dollars in thousands)

Type of cost, highest degree granted, and institutional control	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Noncapitalized software	7,516	5,630	7,135	4,994	4,638	5,128	4,596	2,043	1,753	1,586	2,018	3,173
Capitalized software	335	507	694	168	538	238	291	381	141	154	327	408
Capitalized equipment	61,465	63,729	45,189	34,880	25,401	24,222	130,203	27,261	23,908	21,538	23,294	28,424
Passed through to subrecipients	55,517	65,672	61,794	41,154	39,482	24,620	37,578	31,326	29,502	28,146	28,158	28,708
Other direct costs	333,582	390,565	328,035	269,629	245,514	226,180	395,475	243,180	214,900	230,811	227,198	197,980
Indirect costs	126,426	181,192	153,799	104,575	102,096	88,536	131,739	84,574	87,389	93,320	96,381	94,681
Recovered	83,430	116,226	96,458	72,352	65,011	59,935	68,671	55,825	59,630	60,838	62,816	63,534
Unrecovered	42,996	64,966	57,341	32,223	37,085	28,601	63,068	28,749	27,759	32,482	33,565	31,147
Public												
All R&D	41,266,626	43,915,960	44,162,595	44,849,697	44,678,272	45,412,330	47,107,025	49,257,662	51,890,982	54,655,748	56,634,767	58,667,378
Direct costs	31,705,979	33,922,562	34,339,324	35,005,995	35,020,233	35,641,349	36,969,260	38,696,275	40,643,826	42,882,709	44,470,989	46,015,426
Salaries, wages, and fringe benefits	18,317,189	19,636,095	19,949,722	20,231,506	20,440,464	20,800,859	21,747,650	22,901,546	23,752,695	25,069,357	26,481,114	27,538,324
Software	82,340	96,499	83,509	85,149	74,459	92,877	89,420	81,618	94,259	103,470	121,019	139,459
Noncapitalized software	69,454	80,693	74,897	76,518	65,040	74,445	74,083	73,831	85,049	92,390	111,925	127,382
Capitalized software	12,886	15,806	8,612	8,631	9,419	18,432	15,337	7,787	9,210	11,080	9,094	12,077
Capitalized equipment	1,457,694	1,555,049	1,476,328	1,655,640	1,468,659	1,508,998	1,578,490	1,554,190	1,522,210	1,744,767	1,924,628	1,938,716
Passed through to subrecipients	3,065,688	3,418,705	3,502,384	3,608,137	3,558,959	3,541,642	3,520,318	3,662,377	3,917,036	4,149,921	4,385,705	4,599,631
Other direct costs	8,783,068	9,216,214	9,327,381	9,425,563	9,477,692	9,696,973	10,033,382	10,496,544	11,357,626	11,815,194	11,558,523	11,799,296
Indirect costs	9,560,647	9,993,398	9,823,271	9,843,702	9,658,039	9,770,981	10,137,765	10,561,387	11,247,156	11,773,039	12,163,778	12,651,952
Recovered	6,175,654	6,585,483	6,554,816	6,539,581	6,339,755	6,409,794	6,622,242	6,946,564	7,365,362	7,916,749	8,106,945	8,508,035
Unrecovered	3,384,993	3,407,915	3,268,455	3,304,121	3,318,284	3,361,187	3,515,523	3,614,823	3,881,794	3,856,290	4,056,833	4,143,917
Private												
All R&D	20,019,984	21,358,433	21,566,412	22,163,441	22,520,818	23,137,552	24,660,824	25,889,451	27,132,174	28,831,723	29,665,632	31,056,069
Direct costs	14,453,670	15,389,005	15,558,530	16,083,468	16,544,406	16,970,924	18,312,151	19,239,019	20,132,230	21,463,062	22,055,184	23,170,506
Salaries, wages, and fringe benefits	7,612,610	8,224,515	8,389,348	8,570,675	8,678,485	9,094,253	9,707,797	10,328,629	10,921,423	11,495,316	12,244,880	12,799,044
Software	23,630	19,923	19,947	22,536	22,058	24,130	24,104	28,009	27,578	33,004	37,516	33,144
Noncapitalized software	19,002	17,745	18,353	19,134	19,235	18,759	21,053	24,771	25,725	28,530	32,352	30,661
Capitalized software	4,628	2,178	1,594	3,402	2,823	5,371	3,051	3,238	1,853	4,474	5,164	2,483
Capitalized equipment	690,727	700,976	564,206	598,789	567,748	610,879	590,975	639,743	626,449	695,183	664,280	723,290
Passed through to subrecipients	1,891,241	2,018,145	2,029,037	2,080,950	2,143,962	2,092,152	2,176,729	2,252,993	2,398,759	2,567,089	2,665,303	2,977,358
Other direct costs	4,235,462	4,425,446	4,555,992	4,810,518	5,132,153	5,149,510	5,812,546	5,989,645	6,158,021	6,672,470	6,443,205	6,637,670

TABLE 17

**Higher education R&D expenditures, by type of cost, highest degree granted, and institutional control: FYs 2010–21**

(Dollars in thousands)

Type of cost, highest degree granted, and institutional control	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Indirect costs	5,566,314	5,969,428	6,007,882	6,079,973	5,976,412	6,166,628	6,348,673	6,650,432	6,999,944	7,368,661	7,610,448	7,885,563
Recovered	4,290,239	4,766,856	4,666,808	4,680,596	4,534,158	4,691,108	4,830,052	5,075,050	5,379,729	5,691,159	5,929,733	6,152,698
Unrecovered	1,276,075	1,202,572	1,341,074	1,399,377	1,442,254	1,475,520	1,518,621	1,575,382	1,620,215	1,677,502	1,680,715	1,732,865

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 18

**Higher education R&D expenditures for equipment, by R&D field, source of funds, and institutional control: FY 2021**

(Dollars in thousands)

Field	All expenditures			Federal			Nonfederal		
	Total	Public	Private	Total	Public	Private	Total	Public	Private
All R&D fields	2,662,006	1,938,716	723,290	1,272,156	854,367	417,789	1,389,850	1,084,349	305,501
Science	1,816,025	1,300,359	515,666	855,824	556,388	299,436	960,201	743,971	216,230
Computer and information sciences	112,305	68,582	43,723	61,300	34,837	26,463	51,005	33,745	17,260
Geosciences, atmospheric sciences, and ocean sciences	125,635	104,802	20,833	82,581	70,541	12,040	43,054	34,261	8,793
Atmospheric science and meteorology	21,241	15,601	5,640	16,808	12,046	4,762	4,433	3,555	878
Geological and earth sciences	46,776	35,470	11,306	24,303	19,063	5,240	22,473	16,407	6,066
Ocean sciences and marine sciences	51,267	47,881	3,386	37,823	36,079	1,744	13,444	11,802	1,642
Geosciences, atmospheric sciences, and ocean sciences nec	6,351	5,850	501	3,647	3,353	294	2,704	2,497	207
Life sciences	1,029,337	749,376	279,961	409,732	253,326	156,406	619,605	496,050	123,555
Agricultural sciences	96,332	93,996	2,336	28,703	27,604	1,099	67,629	66,392	1,237
Biological and biomedical sciences	448,424	284,951	163,473	212,198	121,746	90,452	236,226	163,205	73,021
Health sciences	439,402	334,781	104,621	150,692	92,647	58,045	288,710	242,134	46,576
Natural resources and conservation	14,937	14,281	656	6,694	6,463	231	8,243	7,818	425
Life sciences nec	30,242	21,367	8,875	11,445	4,866	6,579	18,797	16,501	2,296
Mathematics and statistics	9,780	3,820	5,960	5,812	2,597	3,215	3,968	1,223	2,745
Physical sciences	447,085	300,630	146,455	273,687	179,511	94,176	173,398	121,119	52,279
Astronomy and astrophysics	39,188	28,831	10,357	20,664	14,404	6,260	18,524	14,427	4,097
Chemistry	147,904	104,431	43,473	81,731	54,324	27,407	66,173	50,107	16,066
Materials science	28,355	18,142	10,213	17,379	13,950	3,429	10,976	4,192	6,784
Physics	210,252	135,653	74,599	140,734	89,102	51,632	69,518	46,551	22,967
Physical sciences nec	21,386	13,573	7,813	13,179	7,731	5,448	8,207	5,842	2,365
Psychology	17,293	11,535	5,758	9,684	5,250	4,434	7,609	6,285	1,324
Social sciences	11,893	9,070	2,823	3,711	2,832	879	8,182	6,238	1,944
Anthropology	1,029	784	245	42	30	12	987	754	233
Economics	3,311	2,749	562	853	537	316	2,458	2,212	246
Political science and government	427	369	58	23	16	7	404	353	51
Sociology, demography, and population studies	984	748	236	449	370	79	535	378	157
Social sciences nec	6,142	4,420	1,722	2,344	1,879	465	3,798	2,541	1,257
Sciences nec	62,697	52,544	10,153	9,317	7,494	1,823	53,380	45,050	8,330
Engineering	791,204	590,423	200,781	408,715	290,758	117,957	382,489	299,665	82,824
Aerospace, aeronautical, and astronautical engineering	68,280	50,130	18,150	41,490	34,299	7,191	26,790	15,831	10,959
Bioengineering and biomedical engineering	58,226	33,746	24,480	26,204	11,659	14,545	32,022	22,087	9,935
Chemical engineering	58,603	46,909	11,694	29,151	22,816	6,335	29,452	24,093	5,359
Civil engineering	39,391	32,451	6,940	16,260	12,488	3,772	23,131	19,963	3,168



TABLE 18

**Higher education R&D expenditures for equipment, by R&D field, source of funds, and institutional control: FY 2021**

(Dollars in thousands)

Field	All expenditures			Federal			Nonfederal		
	Total	Public	Private	Total	Public	Private	Total	Public	Private
Electrical, electronic, and communications engineering	181,023	130,570	50,453	127,631	102,322	25,309	53,392	28,248	25,144
Industrial and manufacturing engineering	23,314	12,249	11,065	13,954	7,400	6,554	9,360	4,849	4,511
Mechanical engineering	98,623	71,836	26,787	64,312	48,100	16,212	34,311	23,736	10,575
Metallurgical and materials engineering	65,891	39,409	26,482	46,073	23,432	22,641	19,818	15,977	3,841
Engineering nec	197,853	173,123	24,730	43,640	28,242	15,398	154,213	144,881	9,332
Non-S&E	54,777	47,934	6,843	7,617	7,221	396	47,160	40,713	6,447
Business management and business administration	6,236	5,572	664	702	694	8	5,534	4,878	656
Communication and communications technologies	3,415	2,740	675	145	145	0	3,270	2,595	675
Education	5,099	4,320	779	918	780	138	4,181	3,540	641
Humanities	3,092	1,827	1,265	157	136	21	2,935	1,691	1,244
Law	215	131	84	92	33	59	123	98	25
Social work	351	300	51	85	57	28	266	243	23
Visual and performing arts	1,813	1,670	143	167	156	11	1,646	1,514	132
Non-S&E nec	34,556	31,374	3,182	5,351	5,220	131	29,205	26,154	3,051

nec = not elsewhere classified; S&amp;E = science and engineering.

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2021.

TABLE 19

**Total R&D expenditures within medical schools, by institutional control: FYs 2010–21**

(Dollars in thousands)

Number, medical school status, highest degree granted, and institutional control	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
All institutions												
Number of institutions with medical schools	141	144	145	146	150	152	157	155	156	159	160	160
All R&D	40,380,697	42,941,206	43,056,379	44,826,210	46,138,811	47,372,130	49,998,145	52,568,534	55,515,110	60,549,529	62,485,514	65,090,080
Medical school R&D	21,437,682	23,215,960	22,885,999	22,716,092	22,867,301	23,550,033	24,764,109	26,282,480	27,849,424	29,906,763	30,849,038	33,137,637
Doctorate												
Number of institutions with medical schools	131	130	135	137	140	142	144	144	147	152	154	154
All R&D	40,333,614	42,835,538	42,957,410	44,780,213	46,085,337	47,326,040	49,910,718	52,496,944	55,458,527	60,498,790	62,436,247	65,039,959
Medical school R&D	21,419,712	23,174,106	22,844,442	22,695,488	22,847,813	23,531,182	24,714,792	26,245,661	27,819,236	29,879,611	30,822,412	33,111,715
Nondoctorate												
Number of institutions with medical schools	10	14	10	9	10	10	13	11	9	7	6	6
All R&D	47,083	105,668	98,969	45,997	53,474	46,090	87,427	71,590	56,583	50,739	49,267	50,121
Medical school R&D	17,970	41,854	41,557	20,604	19,488	18,851	49,317	36,819	30,188	27,152	26,626	25,922
Public												
Number of institutions with medical schools	83	84	85	86	89	91	94	94	94	99	100	100
All R&D	24,313,348	25,927,387	25,938,222	27,210,089	28,237,378	28,969,948	30,292,064	31,838,522	33,691,595	37,359,453	38,614,264	39,982,542
Medical school R&D	11,684,912	12,678,932	12,375,216	12,419,947	12,416,501	12,785,042	13,172,552	13,964,235	15,001,469	16,178,180	16,796,108	17,993,278
Private												
Number of institutions with medical schools	58	60	60	60	61	61	63	61	62	60	60	60
All R&D	16,067,349	17,013,819	17,118,157	17,616,121	17,901,433	18,402,182	19,706,081	20,730,012	21,823,515	23,190,076	23,871,250	25,107,538
Medical school R&D	9,752,770	10,537,028	10,510,783	10,296,145	10,450,800	10,764,991	11,591,557	12,318,245	12,847,955	13,728,583	14,052,930	15,144,359

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 20

**Higher education R&D expenditures for clinical trials, by source of funds, highest degree granted, and institutional control: FYs 2010–21**

(Dollars in thousands)

Number, source of funds, highest degree granted, and institutional control	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
<b>All institutions</b>												
Number of institutions with clinical trials R&D	173	178	166	169	176	178	174	181	180	191	189	194
All R&D	43,587,067	46,154,058	46,182,393	47,521,867	48,823,411	50,518,176	52,974,681	56,092,244	60,206,052	64,936,027	66,979,960	69,735,128
All clinical trials R&D	1,533,053	1,587,503	1,667,554	1,756,031	1,998,453	2,138,547	2,367,976	2,621,635	2,938,075	3,093,342	3,154,663	3,387,004
Federal R&D	27,502,023	29,715,665	28,976,410	28,839,622	28,242,451	28,219,390	29,059,366	30,420,421	32,030,351	34,832,958	36,154,336	38,637,519
Federal clinical trials R&D	539,834	637,812	665,163	747,442	793,733	840,757	867,041	920,753	1,032,010	1,183,895	1,186,056	1,447,555
Nonfederal R&D	16,085,044	16,438,393	17,205,983	18,682,245	20,580,960	22,298,786	23,915,315	25,671,823	28,175,701	30,103,069	30,825,624	31,097,609
Nonfederal clinical trials R&D	993,219	949,691	1,002,391	1,008,589	1,204,720	1,297,790	1,500,935	1,700,882	1,906,065	1,909,447	1,968,607	1,939,449
<b>Doctorate</b>												
Number of institutions with clinical trials R&D	147	150	150	154	159	163	159	167	168	178	179	181
All R&D	43,531,732	46,058,907	46,080,033	47,464,317	48,764,898	50,456,805	52,898,447	56,018,930	60,148,940	64,859,918	66,910,120	69,616,471
All clinical trials R&D	1,525,982	1,577,952	1,659,319	1,748,068	1,989,065	2,132,071	2,361,367	2,616,509	2,934,096	3,089,342	3,149,787	3,379,994
Federal R&D	27,465,906	29,664,114	28,918,557	28,803,492	28,214,054	28,191,478	29,029,502	30,392,429	32,004,414	34,800,509	36,128,994	38,588,683
Federal clinical trials R&D	535,066	631,248	658,212	740,173	785,860	835,589	862,211	916,381	1,028,772	1,180,812	1,182,613	1,442,066
Nonfederal R&D	16,065,826	16,394,793	17,161,476	18,660,825	20,550,844	22,265,327	23,868,945	25,626,501	28,144,526	30,059,409	30,781,126	31,027,788
Nonfederal clinical trials R&D	990,916	946,704	1,001,107	1,007,895	1,203,205	1,296,482	1,499,156	1,700,128	1,905,324	1,908,530	1,967,174	1,937,928
<b>Nondoctorate</b>												
Number of institutions with clinical trials R&D	26	28	16	15	17	15	15	14	12	13	10	13
All R&D	55,335	95,151	102,360	57,550	58,513	61,371	76,234	73,314	57,112	76,109	69,840	118,657
All clinical trials R&D	7,071	9,551	8,235	7,963	9,388	6,476	6,609	5,126	3,979	4,000	4,876	7,010
Federal R&D	36,117	51,551	57,853	36,130	28,397	27,912	29,864	27,992	25,937	32,449	25,342	48,836
Federal clinical trials R&D	4,768	6,564	6,951	7,269	7,873	5,168	4,830	4,372	3,238	3,083	3,443	5,489
Nonfederal R&D	19,218	43,600	44,507	21,420	30,116	33,459	46,370	45,322	31,175	43,660	44,498	69,821
Nonfederal clinical trials R&D	2,303	2,987	1,284	694	1,515	1,308	1,779	754	741	917	1,433	1,521
<b>Public</b>												
Number of institutions with clinical trials R&D	100	101	96	100	106	111	107	111	114	124	124	125
All R&D	27,143,937	29,081,518	28,993,617	29,832,528	30,727,888	31,975,939	33,203,172	34,968,934	37,922,227	41,066,104	42,493,027	43,957,983
All clinical trials R&D	578,615	599,545	633,542	709,889	754,804	802,818	948,240	1,070,820	1,210,863	1,292,386	1,417,887	1,562,350
Federal R&D	15,921,337	17,253,156	16,779,967	16,830,718	16,417,539	16,462,490	17,021,809	17,749,111	18,811,258	20,604,047	21,423,133	22,634,457
Federal clinical trials R&D	162,213	204,202	223,816	244,240	235,778	246,200	263,574	265,194	304,928	388,288	441,614	578,596
Nonfederal R&D	11,222,600	11,828,362	12,213,650	13,001,810	14,310,349	15,513,449	16,181,363	17,219,823	19,110,969	20,462,057	21,069,894	21,323,526

TABLE 20

**Higher education R&D expenditures for clinical trials, by source of funds, highest degree granted, and institutional control: FYs 2010–21**

(Dollars in thousands)

Number, source of funds, highest degree granted, and institutional control	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Nonfederal clinical trials R&D	416,402	395,343	409,726	465,649	519,026	556,618	684,666	805,626	905,935	904,098	976,273	983,754
Private												
Number of institutions with clinical trials R&D	73	77	70	69	70	67	67	70	66	67	65	69
All R&D	16,443,130	17,072,540	17,188,776	17,689,339	18,095,523	18,542,237	19,771,509	21,123,310	22,283,825	23,869,923	24,486,933	25,777,145
All clinical trials R&D	954,438	987,958	1,034,012	1,046,142	1,243,649	1,335,729	1,419,736	1,550,815	1,727,212	1,800,956	1,736,776	1,824,654
Federal R&D	11,580,686	12,462,509	12,196,443	12,008,904	11,824,912	11,756,900	12,037,557	12,671,310	13,219,093	14,228,911	14,731,203	16,003,062
Federal clinical trials R&D	377,621	433,610	441,347	503,202	557,955	594,557	603,467	655,559	727,082	795,607	744,442	868,959
Nonfederal R&D	4,862,444	4,610,031	4,992,333	5,680,435	6,270,611	6,785,337	7,733,952	8,452,000	9,064,732	9,641,012	9,755,730	9,774,083
Nonfederal clinical trials R&D	576,817	554,348	592,665	542,940	685,694	741,172	816,269	895,256	1,000,130	1,005,349	992,334	955,695

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 21

## Higher education R&amp;D expenditures, ranked by FY 2021 R&amp;D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
All institutions	-	61,286,610	65,274,393	65,729,007	67,013,138	67,199,090	68,549,882	71,767,849	75,147,113	79,023,156	83,487,471	86,300,399	89,723,447
Johns Hopkins U. <sup>a</sup>	1	2,004,482	2,145,308	2,106,185	2,168,568	2,242,478	2,305,679	2,431,180	2,562,307	2,661,033	2,917,436	3,110,494	3,181,385
U. California, San Francisco	2	935,509	995,226	1,032,673	1,042,841	1,084,031	1,126,620	1,294,261	1,409,398	1,595,732	1,595,098	1,651,073	1,710,036
U. Michigan, Ann Arbor	3	1,184,445	1,279,123	1,322,711	1,375,117	1,349,262	1,369,278	1,436,448	1,530,139	1,600,869	1,675,805	1,673,862	1,639,645
U. Pennsylvania	4	836,322	886,036	847,077	828,422	828,350	864,068	1,296,429	1,374,293	1,441,931	1,506,285	1,579,364	1,631,950
U. Washington, Seattle	5	1,022,740	1,148,533	1,109,008	1,192,513	1,176,340	1,180,563	1,277,679	1,348,220	1,413,902	1,425,601	1,456,902	1,488,645
U. California, Los Angeles	6	936,995	982,357	1,003,375	966,659	948,197	1,021,227	1,037,528	1,076,917	1,318,110	1,306,376	1,392,941	1,454,880
U. California, San Diego	7	943,219	1,009,378	1,073,864	1,075,554	1,067,388	1,101,466	1,087,117	1,133,454	1,265,196	1,353,763	1,403,735	1,425,499
U. Wisconsin-Madison	8	1,029,295	1,111,642	1,169,779	1,123,501	1,108,564	1,069,077	1,157,680	1,193,413	1,205,518	1,297,331	1,363,931	1,380,075
Stanford U.	9	839,839	907,971	903,238	945,450	959,247	1,022,551	1,066,269	1,109,708	1,157,597	1,204,116	1,203,950	1,274,483
Harvard U.	10	583,361	649,774	799,432	1,012,766	933,975	1,013,753	1,077,253	1,123,160	1,173,371	1,239,736	1,239,983	1,254,008
Duke U.	11	983,289	1,022,207	1,009,911	992,821	1,036,813	1,036,698	1,055,778	1,126,924	1,167,611	1,226,517	1,196,638	1,237,686
Ohio State U.	12	755,194	832,126	766,513	793,373	815,075	817,881	818,464	864,327	875,014	929,250	968,260	1,236,111
U. North Carolina, Chapel Hill	13	755,284	869,174	884,791	973,007	989,766	966,781	1,045,338	1,102,063	1,136,158	1,153,773	1,159,725	1,205,883
Cornell U.	14	749,721	781,651	802,387	845,184	883,292	954,412	974,199	984,478	1,071,621	1,144,534	1,190,063	1,183,524
Yale U.	15	623,510	656,967	656,555	788,784	772,840	803,004	881,765	951,084	990,399	1,072,309	1,094,135	1,165,148
Texas A&M U., College Station and Health Science Center	16	689,624	705,720	693,421	820,015	854,214	866,678	892,718	905,474	922,178	952,156	1,130,803	1,147,720
U. Maryland <sup>b</sup>	17	na	na	na	na	na	na	na	na	na	1,096,600	1,103,062	1,142,264
U. Pittsburgh, Pittsburgh	18	822,491	899,386	866,638	872,736	856,806	861,205	889,793	939,706	1,006,513	1,080,951	1,105,532	1,135,416
U. Texas M. D. Anderson Cancer Center	19	599,529	663,279	685,814	718,096	794,980	833,406	852,095	888,029	929,710	969,496	1,051,297	1,124,971
Georgia Institute of Technology	20	615,833	655,375	688,905	730,488	725,550	765,370	790,706	804,301	891,728	960,167	1,048,988	1,114,481
Columbia U. in the City of New York	21	807,235	878,900	889,487	889,188	890,642	868,159	837,312	893,062	947,504	1,003,615	1,032,909	1,098,570
U. Minnesota, Twin Cities	22	786,074	847,419	826,173	858,378	876,870	880,618	910,181	921,681	954,683	1,013,112	1,042,382	1,072,961
New York U.	23	365,944	430,752	458,645	471,909	523,623	602,041	809,739	917,744	887,558	934,720	947,293	1,063,704
Vanderbilt U. and Vanderbilt U. Medical Center	24	504,959	566,031	560,466	571,603	683,890	647,816	640,842	712,036	738,620	776,937	824,803	1,019,273
Washington U., Saint Louis	25	695,974	725,039	706,410	684,847	664,752	694,069	741,115	754,462	816,139	887,088	920,215	989,214
Pennsylvania State U., University Park and Hershey Medical Center	26	770,449	794,846	797,679	837,880	800,773	791,031	825,561	854,815	908,708	949,679	991,923	970,544
U. Florida	27	681,548	739,931	696,985	695,063	708,526	739,522	791,294	801,418	865,093	928,639	942,223	959,965
U. Southern California	28	592,791	603,294	623,544	645,636	687,222	691,031	702,866	764,322	891,625	909,683	941,198	955,565
Massachusetts Institute of Technology	29	677,138	723,610	824,130	900,524	908,017	930,719	946,159	952,017	964,336	1,009,466	987,968	949,076
Northwestern U.	30	575,078	618,980	631,078	639,781	645,333	656,167	713,491	751,809	805,672	857,069	874,671	913,178
Emory U.	31	529,453	547,316	565,766	575,943	558,600	585,210	614,527	664,888	712,417	794,928	808,792	852,922
U. California, Berkeley	32	694,049	707,945	730,348	727,002	744,343	788,505	774,255	770,822	796,505	802,931	840,000	846,872
Icahn School of Medicine at Mount Sinai	33	370,666	405,527	400,680	428,654	463,429	508,353	540,296	575,448	640,141	722,241	747,014	820,260

TABLE 21

**Higher education R&D expenditures, ranked by FY 2021 R&D expenditures: FYs 2010–21**

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
U. California, Davis	34	679,915	707,896	713,292	725,734	711,721	721,077	741,892	738,347	788,832	804,282	816,693	817,409
U. Texas, Austin	35	589,502	632,171	621,538	634,132	585,251	604,376	621,692	652,187	679,781	696,111	797,199	779,348
U. Arizona	36	586,647	610,565	625,365	629,466	588,088	606,219	604,464	622,200	687,066	734,270	760,975	770,031
U. Illinois, Urbana-Champaign	37	515,133	545,669	583,754	743,487	621,733	639,817	625,180	642,084	652,709	677,523	689,176	731,268
Baylor C. of Medicine	38	447,874	466,061	474,700	508,799	496,314	520,220	572,527	604,952	623,396	651,920	685,641	716,976
Michigan State U.	39	431,373	454,248	507,061	515,707	526,906	558,248	613,369	694,917	715,290	725,708	713,197	710,178
Indiana U., Bloomington	40	177,520	184,096	184,486	197,897	206,039	485,076	508,766	540,421	566,907	668,157	710,850	695,258
Purdue U., West Lafayette	41	548,980	578,231	602,501	595,739	564,923	558,611	606,302	622,813	631,574	663,927	687,144	679,482
Arizona State U.	42	329,345	355,215	385,959	405,154	426,651	458,412	518,239	545,016	617,717	639,637	673,357	677,303
Boston U.	43	352,817	355,916	334,496	368,281	367,328	388,336	395,921	421,360	484,205	534,205	583,267	652,096
U. Alabama, Birmingham	44	489,845	503,698	453,779	440,796	428,563	516,229	537,825	561,851	588,207	607,863	618,226	644,330
Rutgers, State U. New Jersey, New Brunswick	45	428,432	432,306	434,901	493,320	644,116	628,613	630,212	681,719	706,282	657,249	688,077	643,955
U. Texas Southwestern Medical Center	46	419,220	431,883	435,085	440,620	434,627	438,824	442,666	461,797	474,260	496,697	595,939	632,134
U. Utah	47	379,200	414,316	430,056	494,058	486,140	518,928	350,212	380,295	552,306	601,133	607,061	624,737
U. Virginia, Charlottesville	48	276,308	398,096	383,359	385,828	358,576	373,218	397,458	469,682	551,761	613,938	652,002	611,313
U. Colorado Anschutz Medical Campus <sup>c</sup>	49	na	na	na	na	na	na	na	na	na	na	na	562,855
U. Iowa	50	444,034	443,893	446,429	435,377	449,147	443,218	473,362	494,280	511,973	508,353	538,583	553,876
U. Cincinnati	51	411,269	448,936	433,668	438,642	422,873	436,028	430,579	455,250	480,095	529,796	530,138	551,826
U. Colorado Boulder	52	349,449	390,677	392,004	385,849	379,475	420,775	453,123	499,389	514,573	513,822	525,674	547,724
North Carolina State U.	53	360,795	378,154	404,225	417,468	446,112	468,293	489,918	500,445	509,841	541,100	546,290	547,118
Virginia Polytechnic Institute and State U.	54	398,169	450,058	454,417	496,169	513,149	504,282	521,773	522,425	531,636	541,969	556,341	542,045
U. California, Irvine	55	327,594	344,678	350,030	347,773	340,056	329,798	345,319	361,414	426,610	448,967	490,597	523,752
U. Chicago	56	437,721	453,562	419,631	402,621	390,082	412,536	420,997	433,328	423,993	459,171	458,891	497,651
U. Georgia	57	295,339	335,901	351,395	350,225	355,471	374,264	410,345	455,432	453,249	477,536	482,786	493,944
Scripps Research Institute	58	387,298	400,768	398,673	399,899	386,231	384,161	364,670	354,582	396,839	427,734	444,964	485,435
SUNY, Polytechnic Institute	59	na	na	na	na	412,851	295,313	316,680	308,861	257,358	352,889	355,651	465,273
Oregon Health and Science U.	60	314,990	334,324	305,530	308,767	314,802	326,915	331,524	348,449	372,180	415,629	446,890	452,812
Colorado State U., Fort Collins	61	302,896	330,784	375,919	313,238	307,978	317,219	331,862	338,404	374,955	398,477	407,302	447,197
California Institute of Technology	62	362,172	377,514	379,713	347,105	367,182	374,424	371,060	400,312	391,003	399,931	449,651	438,624
U. Illinois, Chicago	63	362,939	380,828	388,625	367,848	347,888	354,560	337,296	372,619	361,690	382,949	412,147	429,585
U. Kentucky	64	359,944	372,932	360,776	339,764	328,239	331,705	349,661	378,374	393,034	410,581	417,674	429,241
SUNY, U. Buffalo	65	349,670	353,172	360,226	387,863	386,562	382,935	389,569	401,591	410,220	413,817	422,038	425,349
Case Western Reserve U.	66	418,164	429,206	431,090	425,788	419,011	401,527	405,655	408,609	434,441	438,994	439,778	421,868
U. Rochester	67	414,655	429,034	389,612	389,355	353,419	346,932	346,165	353,003	370,645	393,960	397,211	409,255
U. South Florida <sup>d</sup>	68	385,029	394,963	443,206	459,409	488,641	485,354	505,965	557,889	385,686	391,325	333,344	405,088

TABLE 21

## Higher education R&amp;D expenditures, ranked by FY 2021 R&amp;D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Princeton U.	69	242,570	263,335	275,666	269,908	293,274	279,851	307,653	334,125	365,007	385,739	396,502	404,448
Carnegie Mellon U.	70	222,790	242,882	255,933	271,277	251,222	242,004	319,168	328,100	331,383	359,720	386,996	402,376
U. Missouri, Columbia	71	238,500	230,957	239,810	236,423	237,266	246,684	280,051	293,006	294,686	310,421	332,180	388,779
U. Kansas	72	267,961	274,727	286,262	298,498	301,534	311,383	297,933	300,319	339,046	352,643	368,811	385,637
Uniformed Services U. of the Health Sciences	73	134,126	175,365	143,250	164,232	262,489	361,173	256,203	298,370	308,326	417,300	324,510	384,490
U. Oklahoma, Norman and Health Science Center	74	218,089	249,297	240,974	255,674	253,344	242,367	259,998	272,239	283,638	302,679	362,209	380,048
U. Miami	75	280,671	323,486	365,301	344,757	345,805	331,036	358,441	367,877	357,104	360,716	381,410	375,841
Virginia Commonwealth U.	76	197,709	207,756	201,366	196,015	201,858	218,925	225,999	235,464	246,190	255,648	283,874	364,096
Iowa State U.	77	250,120	267,641	260,995	266,596	313,263	306,125	328,385	323,584	361,206	358,474	363,107	360,275
Washington State U.	78	304,352	320,510	335,930	341,082	326,414	333,134	334,082	331,051	331,424	344,997	335,201	357,648
Rockefeller U.	79	265,750	272,491	292,896	298,474	316,368	323,932	335,136	348,845	353,142	351,089	356,217	357,543
U. Massachusetts, Medical School	80	232,039	262,714	256,090	245,923	241,869	250,338	253,099	279,884	274,211	281,507	279,096	347,337
U. New Mexico	81	211,771	220,565	220,360	227,703	228,849	232,271	239,550	246,597	251,322	239,696	243,375	332,566
Dartmouth C. and Dartmouth Hitchcock Medical Center	82	194,141	210,631	195,930	201,591	212,606	209,646	233,636	308,445	323,927	323,020	326,349	330,226
Florida State U.	83	227,329	230,411	225,378	250,877	252,548	256,449	268,288	282,901	297,661	329,205	350,430	328,604
Utah State U.	84	149,169	174,167	157,355	158,352	169,605	175,353	180,590	187,314	219,397	283,917	304,256	325,223
U. Tennessee, Knoxville <sup>e</sup>	85	150,671	167,456	179,252	193,054	179,041	173,533	183,268	203,800	259,607	247,693	320,407	316,273
U. Texas Health Science Center, Houston	86	240,772	261,172	236,250	233,256	233,737	234,299	237,016	246,060	258,411	271,525	273,862	308,823
U. Nebraska, Lincoln	87	224,135	235,296	253,321	266,507	278,299	284,438	294,856	302,204	308,053	316,820	320,463	307,083
U. Connecticut	88	237,908	253,792	256,854	242,251	258,056	259,397	265,522	267,647	269,685	285,764	280,131	302,329
Albert Einstein C. of Medicine	89	na	na	na	na	na	na	289,660	289,685	297,328	298,824	288,654	301,715
Temple U.	90	124,528	134,533	138,318	224,087	224,101	227,468	246,392	268,385	276,011	284,301	299,707	299,778
Louisiana State U., Baton Rouge	91	289,872	287,841	285,395	283,400	290,076	281,154	291,972	265,168	286,726	296,497	286,733	296,673
Georgetown U.	92	159,355	169,916	180,308	178,995	172,726	176,131	183,788	212,319	221,449	240,960	258,659	279,932
Medical U. South Carolina	93	224,632	213,346	236,586	245,451	242,594	243,534	260,098	262,267	282,253	295,600	272,590	277,761
Oregon State U.	94	216,595	228,814	240,507	232,677	230,963	245,317	254,275	267,068	272,433	263,830	268,385	276,955
Medical C. Wisconsin	95	191,816	215,358	209,040	201,237	199,713	199,283	199,925	209,618	229,436	251,300	264,325	276,850
Brown U.	96	335,838	344,090	365,120	361,010	341,531	342,040	347,016	212,290	244,838	256,954	266,127	276,331
Mississippi State U.	97	231,675	226,070	233,197	206,424	209,729	226,359	239,446	240,972	244,102	264,526	280,485	275,143
SUNY, Stony Brook U.	98	204,728	211,356	219,744	225,712	211,631	220,580	230,621	238,612	245,016	260,813	263,470	274,516
U. Hawaii, Manoa	99	303,085	318,316	312,311	326,750	324,342	316,497	304,476	292,021	276,388	280,416	275,929	271,768
Auburn U., Auburn	100	145,115	163,335	133,013	147,229	142,487	135,899	152,381	190,340	212,925	231,619	255,281	266,374
George Washington U.	101	196,917	197,621	196,448	202,428	227,995	241,117	231,829	245,519	260,656	269,799	270,369	266,108
Wake Forest U.	102	192,034	209,134	204,328	182,721	176,380	171,926	170,006	182,227	191,371	238,933	244,643	264,216
Woods Hole Oceanographic Institution	103	181,746	198,775	204,352	198,232	220,016	216,592	212,374	194,088	204,400	229,143	227,573	262,048

TABLE 21

**Higher education R&D expenditures, ranked by FY 2021 R&D expenditures: FYs 2010–21**

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
U. California, Santa Barbara	104	225,730	230,435	233,883	236,497	231,322	222,870	230,139	238,246	235,164	243,778	254,434	248,961
Florida International U.	105	110,271	110,006	118,058	128,070	132,531	163,033	170,846	177,292	196,180	225,864	236,842	246,075
U. Notre Dame	106	110,369	134,410	157,691	175,220	182,228	190,954	202,216	212,823	219,993	240,078	227,535	240,324
Clemson U.	107	174,693	166,350	142,096	152,444	161,070	171,215	183,965	193,268	213,458	218,760	228,597	237,485
Wayne State U.	108	254,492	259,895	227,070	224,331	218,435	213,878	221,537	227,728	238,859	244,217	243,259	235,519
U. Delaware	109	153,311	169,746	170,174	179,967	175,563	175,724	176,295	183,428	186,192	206,270	220,445	231,532
Tufts U.	110	156,106	156,395	160,922	156,525	160,825	168,314	189,085	223,409	213,457	213,285	216,241	224,956
U. Texas Health Science Center, San Antonio	111	207,115	198,655	184,298	175,983	172,716	170,277	194,885	169,200	179,219	188,483	202,572	219,734
U. Central Florida	112	117,985	109,190	116,891	126,681	185,555	215,519	198,211	200,387	215,332	225,085	213,757	218,596
U. South Carolina, Columbia	113	229,145	201,592	214,901	203,365	206,173	208,736	209,271	208,670	206,355	205,940	219,464	215,374
George Mason U.	114	84,120	88,089	90,198	95,913	98,680	106,410	108,899	112,404	149,138	186,267	218,445	214,207
U. Massachusetts, Amherst	115	169,141	181,297	194,775	190,739	200,199	213,902	214,576	210,416	211,140	223,177	219,389	213,824
Northeastern U.	116	79,949	86,783	107,862	116,088	116,245	122,915	129,040	142,349	166,711	183,998	200,068	211,342
Rice U.	117	97,903	110,235	117,223	131,003	138,536	144,679	154,543	167,277	161,831	182,564	198,681	207,404
Georgia State U.	118	81,015	92,725	91,148	111,999	123,915	139,596	161,314	200,171	201,235	195,572	202,451	206,472
Tulane U.	119	165,513	171,703	164,373	160,414	157,825	152,658	165,438	180,993	193,294	196,933	204,430	205,206
Kansas State U.	120	160,679	169,167	176,141	183,096	184,945	188,721	193,254	196,478	218,299	218,622	213,900	203,846
U. Houston	121	119,811	113,709	116,288	130,844	140,597	150,628	162,049	169,431	177,484	195,398	200,428	202,536
U. Nebraska, Medical Center	122	138,219	133,036	141,619	137,485	139,126	145,009	150,694	171,491	177,245	194,455	202,406	200,974
Thomas Jefferson U.	123	103,064	104,923	100,506	89,273	118,378	119,631	122,396	142,569	148,573	170,458	171,377	200,393
U. Louisville	124	189,090	197,438	196,842	186,772	183,376	163,262	172,907	177,588	176,655	177,862	198,818	200,362
West Virginia U.	125	154,926	166,420	169,303	167,144	164,454	170,145	172,477	185,606	185,110	187,512	188,452	199,907
Oklahoma State U., Stillwater	126	147,094	162,786	166,523	134,500	126,543	129,968	181,617	189,024	188,756	184,276	187,060	198,799
Texas Tech U.	127	133,360	149,399	138,026	142,676	159,308	163,897	172,521	191,482	185,742	193,923	199,643	197,739
U. Vermont	128	129,856	132,356	115,697	115,486	109,701	114,547	115,611	117,667	128,293	135,859	191,147	195,320
U. Arkansas for Medical Sciences	129	119,518	122,066	129,056	133,677	131,438	132,451	125,378	128,508	139,187	153,135	174,549	194,709
Montana State U., Bozeman	130	135,084	125,966	124,228	113,136	113,348	108,414	112,073	129,622	125,129	154,811	166,285	193,577
Wichita State U.	131	51,524	63,538	61,279	61,388	58,859	59,940	65,930	78,514	81,137	128,795	153,816	192,042
U. Dayton	132	93,309	90,557	81,030	84,252	86,881	98,182	116,589	135,214	147,001	165,343	163,718	191,228
U. California, Riverside	133	130,288	132,238	135,494	132,617	133,558	144,511	152,233	163,632	167,847	177,655	184,894	189,600
U. Texas Medical Branch	134	188,399	193,555	180,888	180,198	178,014	173,506	179,541	185,106	181,831	175,372	180,595	185,759
U. Louisiana, Lafayette	135	69,412	69,978	65,275	61,887	67,580	77,300	80,099	100,956	124,713	144,187	164,070	181,400
U. Nevada, Reno	136	95,423	89,740	85,726	89,797	87,324	90,138	95,475	105,869	144,426	152,128	159,790	175,386
U. Alaska, Fairbanks	137	161,986	165,530	160,407	162,658	155,769	142,742	144,259	152,694	140,917	144,457	152,299	172,957
U. New Hampshire	138	115,562	143,002	165,156	147,446	147,544	144,735	145,015	145,375	146,430	148,980	156,901	167,373
New Jersey Institute of Technology	139	92,318	100,491	102,851	107,310	106,081	110,512	130,812	142,164	162,349	161,232	163,447	166,587



TABLE 21

**Higher education R&D expenditures, ranked by FY 2021 R&D expenditures: FYs 2010–21**

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
U. Arkansas, Fayetteville	140	113,909	120,007	123,199	125,501	125,824	133,660	145,020	157,791	175,498	180,225	165,887	164,443
North Dakota State U.	141	126,419	134,064	135,493	150,173	154,437	153,542	156,297	153,119	145,669	152,381	155,645	164,050
U. California, Santa Cruz	142	143,919	155,617	155,516	150,777	151,734	151,713	151,192	124,344	127,538	142,958	150,400	160,615
Drexel U.	143	118,349	115,020	116,768	123,813	131,170	128,027	127,909	138,577	155,908	149,481	143,123	152,752
Syracuse U.	144	107,024	83,686	85,649	70,967	66,321	69,896	84,651	145,705	147,751	154,366	149,652	151,717
U. Alabama, Huntsville	145	75,683	75,724	87,388	101,016	89,325	88,439	96,865	94,376	99,405	109,744	131,648	149,792
U. Maine	146	111,282	111,600	92,135	77,583	101,247	79,500	79,222	99,502	106,694	129,913	134,183	146,801
U. Texas, San Antonio	147	56,279	58,667	57,233	53,626	47,061	54,949	59,831	70,163	72,682	84,326	138,586	145,362
U. North Dakota	148	76,560	74,882	80,149	68,942	67,595	64,384	70,275	102,823	109,865	110,836	111,663	143,506
U. Oregon	149	94,107	103,019	105,030	94,522	91,203	79,698	100,754	95,974	111,896	110,664	114,259	139,193
U. Alabama, Tuscaloosa	150	40,762	53,633	55,885	55,443	53,140	58,234	62,549	63,282	71,992	83,317	95,200	129,509
U. Rhode Island	151	90,016	102,630	114,323	101,898	91,706	93,828	97,900	101,871	104,490	115,160	109,967	129,296
U. Texas, Arlington	152	71,414	72,483	78,556	86,735	89,175	77,798	87,386	97,197	105,688	123,858	133,793	126,477
SUNY, Binghamton U.	153	72,057	72,539	81,000	76,005	71,382	79,895	85,192	98,089	113,851	104,297	117,870	124,565
U. Texas, Dallas	154	82,044	93,230	90,700	98,842	99,727	98,551	106,205	113,205	113,315	126,661	132,192	122,825
U. Montana, Missoula	155	63,540	60,159	59,313	60,189	55,032	60,485	70,059	85,044	90,563	104,665	110,218	121,571
Rensselaer Polytechnic Institute	156	83,952	84,834	92,720	92,495	105,608	102,841	101,127	104,797	100,856	103,739	122,753	119,056
Augusta U.	157	na	na	na	64,033	64,118	67,737	71,338	99,661	99,081	96,502	103,961	116,480
U. Mississippi	158	110,020	122,765	121,731	108,168	109,922	94,040	121,665	134,542	137,521	158,809	122,960	116,175
Cold Spring Harbor Laboratory	159	ne	89,913	84,072	78,236	76,733	84,653	88,943	97,288	115,870	126,773	115,198	114,903
SUNY, U. Albany	160	359,364	148,625	137,758	137,759	130,955	111,705	120,232	156,386	173,031	181,531	138,088	114,501
New Mexico State U.	161	157,872	139,062	141,151	142,365	134,262	132,377	106,282	102,218	96,270	101,457	107,275	110,580
U. Tennessee, Health Science Center	162	81,904	81,220	77,754	71,902	67,841	65,771	71,547	73,393	79,460	96,979	99,716	109,562
U. Texas, El Paso	163	68,870	74,069	79,649	83,249	79,537	89,418	91,330	94,565	91,032	106,809	108,628	109,410
San Diego State U.	164	99,137	106,591	92,867	86,733	95,674	93,572	90,722	89,187	88,177	92,964	97,710	107,681
Brandeis U.	165	71,006	74,889	74,660	76,060	74,992	74,700	73,435	68,437	61,639	60,825	91,355	107,549
Rush U.	166	73,398	79,212	80,300	81,770	80,551	79,048	73,351	74,062	89,101	96,267	94,438	107,398
U. Idaho	167	87,207	96,229	97,227	95,891	95,594	97,493	102,457	109,537	111,590	113,107	112,810	105,895
U. Nevada, Las Vegas	168	44,457	39,526	34,543	35,935	39,448	42,000	62,825	66,285	83,800	99,445	105,872	101,009
U. Massachusetts, Lowell	169	59,345	60,013	60,624	63,136	64,591	70,384	68,494	69,677	72,266	83,996	92,216	94,708
U. Wyoming	170	55,319	57,549	65,611	65,490	51,422	56,996	112,056	125,032	113,063	80,353	93,061	93,202
U. Maryland, Baltimore County	171	87,156	91,657	74,993	71,819	67,833	68,688	70,166	70,406	71,481	80,632	83,867	84,418
Michigan Technological U.	172	63,471	70,089	71,989	70,689	68,526	69,607	72,536	71,629	78,678	80,443	77,927	81,715
Colorado School of Mines	173	44,879	48,704	58,836	59,091	59,695	58,349	60,931	59,477	60,372	70,397	78,517	81,443
U. North Texas, Denton	174	31,496	42,475	46,943	49,518	44,180	43,628	37,106	43,789	44,025	78,691	84,239	81,252
Saint Louis U.	175	46,839	53,179	49,086	48,231	44,481	44,457	42,151	56,402	60,380	66,103	69,528	79,005

TABLE 21

**Higher education R&D expenditures, ranked by FY 2021 R&D expenditures: FYs 2010–21**

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Texas State U.	176	30,560	33,487	36,664	37,053	39,265	47,694	54,298	60,741	64,322	64,554	70,714	72,510
Cleveland State U.	177	34,235	55,502	61,111	67,378	61,783	57,662	77,720	83,762	83,641	80,077	78,189	71,451
Northern Arizona U.	178	28,803	30,785	28,100	30,516	31,590	35,206	39,580	46,253	52,899	58,914	64,456	69,129
William & Mary	179	57,461	58,919	55,805	57,940	59,015	61,554	63,027	64,127	65,269	64,835	66,763	68,801
U. Southern Mississippi	180	42,059	46,591	60,079	51,962	51,938	51,840	59,363	61,659	61,336	76,464	72,322	67,417
U. Memphis	181	49,517	48,321	51,194	48,141	55,566	46,675	48,321	49,695	64,297	58,700	69,463	67,092
American U.	182	39,747	46,611	43,526	61,087	63,628	58,325	57,064	56,034	61,741	71,053	71,839	65,912
Van Andel Research Institute	183	ne	ne	ne	ne	ne	40,502	40,040	44,578	55,171	61,738	58,982	65,789
Indiana U.-Purdue U., Indianapolis	184	296,194	322,617	316,914	332,760	324,261	55,973	57,853	58,056	60,501	67,635	70,778	65,330
Boston C.	185	50,537	52,253	51,442	50,702	49,724	47,761	54,469	58,088	57,030	61,956	63,063	65,156
Naval Postgraduate School	186	103,510	101,363	132,450	94,880	99,032	89,170	65,529	60,386	59,213	67,323	62,903	65,101
U. Massachusetts, Boston	187	56,416	57,040	60,086	60,380	61,186	62,374	64,223	70,019	61,473	62,018	64,219	63,723
Old Dominion U.	188	97,176	102,192	104,579	99,138	67,037	65,092	70,054	67,990	60,321	67,425	65,704	62,332
San Jose State U.	189	38,241	40,149	34,727	38,326	43,509	45,037	41,662	39,192	41,366	44,309	47,301	60,100
Florida Atlantic U.	190	56,472	62,024	65,377	23,967	22,997	21,214	26,750	46,025	48,024	51,085	53,845	58,471
U. Texas Rio Grande Valley	191	na	na	na	na	na	na	31,007	29,500	27,125	52,016	56,702	58,187
CUNY, City C.	192	46,699	60,648	57,982	55,138	52,654	53,223	62,484	54,627	53,979	52,738	45,632	57,361
Rochester Institute of Technology	193	38,663	34,889	36,935	36,613	35,945	40,442	45,518	51,263	49,413	58,175	57,777	56,043
U. Wisconsin-Milwaukee	194	71,181	65,648	61,771	56,587	60,752	63,414	59,813	54,181	55,771	53,773	61,069	55,664
Missouri U. of Science and Technology	195	42,263	41,581	38,588	40,397	39,065	35,842	35,756	38,243	42,986	47,807	47,001	54,437
U. Toledo	196	70,399	74,149	68,228	69,072	61,900	52,354	50,019	50,030	50,320	55,006	54,100	53,169
Howard U.	197	40,080	42,341	45,486	42,789	40,771	47,322	41,038	45,768	45,965	44,163	44,933	52,412
Mercer U.	198	27,298	29,039	31,376	28,892	30,209	32,838	31,735	29,447	34,197	44,128	49,116	51,989
U. North Carolina, Charlotte	199	31,814	27,533	25,141	24,764	23,342	24,870	27,815	26,097	39,888	47,187	50,050	51,877
East Carolina U.	200	23,995	28,114	31,990	38,271	29,925	26,549	25,273	26,117	39,074	55,611	57,820	51,662
South Dakota State U.	201	67,552	69,680	68,743	63,843	58,334	58,373	60,677	63,412	63,465	66,794	60,939	51,542
U. Maryland Center for Environmental Science	202	42,670	50,007	48,224	53,683	50,814	52,235	54,974	55,078	54,136	56,033	54,560	51,201
U. California, Office of the President	203	72,542	63,420	65,627	67,447	50,103	48,341	39,051	46,399	55,676	67,702	60,686	50,848
U. North Texas, Health Science Center	204	38,862	45,943	46,865	44,904	47,002	46,335	50,567	48,476	49,503	50,124	42,766	50,698
Kent State U.	205	26,331	27,455	26,507	23,149	25,666	38,069	34,661	42,003	42,792	47,188	50,307	50,408
Ohio U.	206	50,440	57,643	57,203	59,734	60,800	61,078	59,117	61,092	53,303	53,735	51,914	49,764
Baylor U.	207	10,925	12,343	10,161	13,616	20,729	24,642	26,767	29,400	31,936	33,304	39,765	48,809
Worcester Polytechnic Institute	208	18,613	22,137	20,232	25,298	29,929	36,130	37,822	33,368	33,067	39,878	43,092	48,702
U. South Alabama	209	35,500	42,233	40,172	40,590	41,681	43,722	46,670	41,431	41,056	52,540	51,102	47,610
Southern Illinois U., Carbondale	210	69,924	71,130	71,097	70,854	65,256	57,509	53,172	48,416	49,636	41,729	41,617	47,210
Florida A&M U.	211	53,474	53,326	52,263	51,149	46,367	46,522	45,390	37,578	39,682	42,470	41,319	47,124

TABLE 21

**Higher education R&D expenditures, ranked by FY 2021 R&D expenditures: FYs 2010–21**

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Boise State U.	212	18,731	24,204	27,920	25,690	26,568	31,341	32,085	34,992	41,382	39,824	43,307	46,065
U. California, Merced	213	21,591	21,328	22,656	22,909	23,916	29,688	29,370	35,093	38,226	44,890	45,966	45,964
Air Force Institute of Technology	214	31,259	31,879	32,746	27,592	23,902	26,866	29,998	35,733	33,360	34,016	35,584	45,703
SUNY, Upstate Medical U.	215	43,824	39,988	35,897	34,286	33,460	32,453	31,892	35,551	36,674	38,091	41,557	44,870
Louisiana State U., Health Sciences Center, New Orleans	216	59,776	57,007	53,712	49,443	45,486	46,840	43,067	40,785	38,989	40,914	43,419	44,370
U. Puerto Rico, Medical Sciences Campus	217	39,134	64,017	45,649	43,374	40,444	43,316	46,232	42,423	41,216	45,014	37,217	44,111
Loyola U., Chicago	218	43,903	42,708	45,903	51,676	50,774	48,664	42,672	39,738	39,332	39,223	39,365	44,036
Brigham Young U., Provo	219	32,997	37,142	33,843	36,562	38,051	39,126	42,304	43,406	40,755	39,582	38,569	43,916
Stevens Institute of Technology	220	35,544	41,622	31,929	28,908	30,826	34,082	35,765	35,144	33,060	36,695	44,747	43,386
Southern Methodist U.	221	18,742	24,453	24,397	22,544	32,401	29,282	31,819	29,879	31,140	42,562	43,081	41,960
Texas Tech U., Health Sciences Center	222	51,282	58,774	61,219	61,412	38,015	40,438	40,235	39,767	37,819	44,072	44,135	41,583
Portland State U.	223	56,533	58,975	58,489	55,435	54,787	53,872	56,572	48,964	46,911	50,045	43,667	41,311
Lehigh U.	224	37,332	32,086	31,992	35,220	37,066	36,788	32,941	36,969	38,674	38,185	38,064	41,279
North Carolina Agricultural and Technical State U.	225	35,297	34,930	35,103	33,994	35,047	35,172	33,759	37,379	38,140	37,339	36,151	40,751
U. Denver	226	15,748	17,004	15,237	19,262	18,183	16,116	21,326	22,289	27,270	36,551	41,349	38,751
Georgia Southern U.	227	3,704	3,912	5,719	18,069	20,245	17,152	17,395	16,084	12,978	11,166	12,166	37,201
Marquette U.	228	14,310	19,876	18,606	20,856	23,633	24,816	28,422	30,034	32,471	37,777	37,136	37,087
U. North Carolina, Greensboro	229	22,436	26,121	19,080	16,590	20,723	23,026	23,965	23,231	22,743	26,325	28,966	37,033
U. West Florida	230	17,757	21,710	16,221	19,332	19,579	31,232	40,815	35,054	41,035	38,555	37,397	36,837
San Francisco State U.	231	25,615	26,198	30,291	33,885	29,457	26,345	28,273	29,940	30,903	31,888	33,828	35,768
Catholic U. of America	232	21,454	25,397	24,971	23,235	22,331	24,265	25,139	24,282	25,497	24,484	25,221	35,548
SUNY, Downstate Health Sciences U.	233	32,512	41,993	43,257	39,354	33,331	28,652	33,735	31,873	34,661	36,015	33,204	34,459
U. Missouri, Kansas City	234	30,163	32,769	29,227	28,829	29,164	26,595	26,292	25,123	25,136	31,956	36,356	33,855
CUNY, Hunter C.	235	38,900	39,772	41,022	40,059	38,879	36,368	37,094	31,273	33,702	37,478	38,345	33,816
Morehouse School of Medicine	236	30,669	33,946	37,586	36,638	41,858	33,367	38,774	36,925	33,215	31,289	29,813	32,637
U.S. Air Force Academy	237	62,097	73,607	56,044	57,164	44,663	38,326	55,358	48,287	35,925	43,941	42,197	32,086
Texas A&M U.-Corpus Christi	238	17,266	17,509	15,776	17,418	21,321	24,507	24,786	27,993	30,253	32,944	32,284	30,500
Illinois Institute of Technology	239	36,554	44,463	32,576	36,722	31,356	34,336	29,826	32,659	33,280	34,334	29,122	29,698
U. Puerto Rico, Rio Piedras	240	30,515	32,582	33,099	29,234	28,793	28,579	23,491	21,204	17,085	24,088	22,895	28,896
New Mexico Institute of Mining and Technology	241	51,696	43,857	37,875	32,499	48,338	26,265	19,598	20,491	21,383	24,616	24,591	28,745
U. Massachusetts, Dartmouth	242	25,725	25,644	22,732	27,326	28,219	26,776	26,824	26,102	26,626	28,036	26,836	28,729
SUNY, C. of Environmental Science and Forestry	243	26,916	25,024	23,132	21,239	19,027	22,051	24,504	27,923	26,610	29,137	29,296	28,440
U. Texas Health Science Center, Tyler	244	ne	ne	ne	ne	ne	12,191	11,799	16,292	17,949	19,606	21,265	27,928
U. South Dakota	245	30,616	28,959	31,982	33,187	30,700	25,661	25,864	28,358	30,943	32,028	29,279	27,537
Louisiana Tech U.	246	26,020	27,583	26,546	24,949	22,942	23,827	23,104	22,741	24,655	26,143	26,585	27,417
Tennessee State U.	247	12,432	13,468	15,439	16,177	20,068	19,955	19,520	18,108	17,681	15,236	25,942	26,880

TABLE 21

**Higher education R&D expenditures, ranked by FY 2021 R&D expenditures: FYs 2010–21**

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Rowan U.	248	2,987	3,247	3,783	3,407	8,202	8,044	10,212	12,856	16,247	22,892	26,018	26,458
Desert Research Institute	249	34,367	35,331	33,056	27,695	23,778	22,103	29,422	29,440	27,875	26,991	26,428	26,365
Wright State U.	250	48,575	48,501	46,213	50,489	54,985	54,289	55,484	59,379	68,035	64,208	49,825	26,259
California Polytechnic State U., San Luis Obispo	251	19,732	16,532	17,412	16,067	15,096	16,312	18,081	17,979	16,352	25,249	26,605	25,953
Chapman U.	252	3,830	3,547	3,314	4,463	4,794	5,353	6,554	10,626	14,141	19,592	26,660	25,820
Western Michigan U. and Homer Stryker M.D. School of Medicine	253	26,391	25,051	21,073	18,979	18,942	19,679	18,927	22,372	21,184	25,071	24,541	25,314
Northern Illinois U.	254	27,036	21,748	21,823	23,027	16,427	17,722	21,225	19,150	23,280	26,570	25,420	25,261
Miami U.	255	26,521	26,093	26,311	23,924	21,216	16,108	16,057	17,239	19,658	22,380	24,489	25,138
Villanova U.	256	10,066	10,044	8,547	7,049	13,700	14,512	14,903	19,037	20,730	22,837	25,505	24,723
Louisiana State U., Health Sciences Center, Shreveport	257	30,817	31,021	29,365	28,266	25,004	24,069	23,353	22,560	24,463	26,262	25,321	24,600
Nova Southeastern U.	258	10,116	12,322	12,908	12,712	13,716	14,775	19,559	22,508	23,296	24,567	26,035	24,513
Teachers C., Columbia U.	259	17,167	18,406	20,805	19,649	20,538	23,269	24,124	24,194	24,477	24,865	22,630	24,335
Illinois State U.	260	18,417	17,833	17,760	17,589	19,159	18,742	20,408	20,080	21,055	27,082	31,539	24,152
Rutgers, State U. New Jersey, Newark	261	27,745	35,774	34,797	37,134	28,083	24,387	21,492	25,898	27,206	26,661	28,006	23,854
U. Minnesota, Duluth	262	21,150	23,400	21,530	21,383	21,904	27,550	27,528	24,956	25,189	27,530	26,137	23,767
California State U., Sacramento	263	15,207	16,344	14,053	15,564	13,136	17,930	20,676	21,106	21,429	23,544	24,939	23,699
Marshall U.	264	24,501	26,723	18,998	19,617	20,382	19,936	20,687	18,348	20,050	19,622	22,250	23,620
Texas A&M U.-Kingsville	265	17,378	17,114	17,419	18,653	21,819	20,894	21,309	22,633	21,150	22,268	22,745	23,578
Ponce Health Sciences U.	266	8,934	10,502	11,586	7,241	5,710	7,520	7,992	8,664	7,857	11,390	13,566	23,297
Creighton U.	267	27,700	31,443	32,594	29,983	25,560	23,825	23,510	24,315	20,587	24,039	20,339	23,251
Florida Institute of Technology	268	12,054	14,523	17,100	13,298	14,255	14,282	18,860	18,180	17,378	17,876	18,271	23,195
Delaware State U.	269	15,200	19,019	15,668	17,295	17,679	15,980	21,320	20,793	21,377	23,017	23,105	23,193
Middle Tennessee State U.	270	4,793	4,969	7,108	5,718	4,334	4,350	6,164	4,714	7,132	7,673	8,697	22,531
Albany Medical C.	271	22,953	20,876	17,735	15,093	16,093	18,043	20,166	20,443	21,187	23,028	23,510	22,443
Central Michigan U.	272	7,483	8,671	10,907	12,879	15,015	12,880	14,166	14,652	15,616	17,102	17,448	21,726
Tuskegee U.	273	15,581	15,685	15,991	21,150	24,945	20,740	16,535	16,535	16,535	20,562	20,973	21,355
U. Alaska, Anchorage	274	16,709	18,620	20,194	20,255	17,150	17,436	19,883	20,861	21,096	21,724	22,713	21,332
U. Nebraska, central administration	275	ne	ne	ne	ne	ne	ne	ne	ne	13,352	18,860	23,672	21,295
Morgan State U.	276	12,804	12,803	17,751	15,475	15,720	13,577	15,727	14,978	12,993	13,253	17,193	20,628
Oakland U.	277	12,856	15,868	18,194	16,767	15,196	17,108	16,001	14,561	13,817	18,002	12,949	20,261
California State U., East Bay	278	1,312	1,644	1,039	934	ne	ne	837	ne	ne	ne	9,072	20,108
Embry-Riddle Aeronautical U.	279	12,189	16,289	19,376	16,484	15,393	11,942	16,761	13,335	16,767	12,478	17,786	19,830
U.S. Military Academy	280	22,171	13,799	12,227	11,630	14,819	15,312	13,500	13,617	13,582	10,765	12,473	19,696
Eastern Virginia Medical School	281	44,420	36,569	37,745	44,183	43,917	42,296	32,550	28,671	30,010	27,064	20,870	19,415
U. Nebraska, Omaha	282	8,951	9,509	8,376	9,181	9,222	9,422	10,459	12,061	12,943	14,302	16,134	19,006

TABLE 21

## Higher education R&amp;D expenditures, ranked by FY 2021 R&amp;D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Kennesaw State U.	283	1,854	1,961	3,511	5,062	2,192	4,762	8,279	9,510	11,214	12,850	17,954	18,880
New York Medical C.	284	28,400	27,316	23,277	20,243	17,908	17,653	17,311	15,637	16,226	19,398	20,137	18,872
Bowling Green State U.	285	8,124	8,999	8,566	13,157	8,861	7,995	14,460	14,333	17,991	17,026	18,729	18,619
East Tennessee State U.	286	9,869	10,249	11,213	8,919	7,836	6,930	7,982	9,493	14,043	14,197	13,925	18,449
U. Puerto Rico, Mayaguez	287	26,475	34,424	32,115	29,225	27,152	28,100	25,491	26,130	24,769	26,877	26,553	18,368
Southern Illinois U., Edwardsville	288	31,781	33,736	26,992	25,807	18,915	19,051	18,780	17,393	18,420	18,088	18,273	18,044
U. Colorado Denver <sup>c</sup>	289	na	na	na	na	na	na	na	na	na	na	na	18,039
Tarleton State U.	290	10,763	10,426	9,393	9,722	10,996	9,825	9,404	10,893	12,503	13,171	14,890	17,729
U. Guam	291	5,555	5,626	6,131	6,043	7,075	6,062	7,402	8,842	11,225	12,249	13,043	17,666
Prairie View A&M U.	292	12,565	15,243	14,552	13,198	12,292	13,123	12,616	13,982	17,278	18,018	18,723	17,582
Montclair State U.	293	2,255	3,621	5,123	4,568	4,266	4,274	5,207	5,796	7,980	15,588	17,636	17,390
U. Akron	294	52,884	60,352	66,413	69,640	69,528	58,512	58,817	41,326	32,582	30,020	23,496	17,340
U. New Orleans	295	35,021	35,359	28,450	24,607	20,614	18,960	15,719	15,939	14,437	15,328	16,594	16,979
Clarkson U.	296	18,584	17,951	14,809	12,061	13,750	13,406	12,983	15,148	16,927	17,147	15,104	16,765
Fordham U.	297	19,289	18,350	19,311	18,822	17,961	20,939	25,374	20,807	20,644	20,287	20,456	16,731
U. North Carolina, Wilmington	298	23,143	22,593	19,722	18,145	14,648	15,564	15,715	16,015	16,955	17,515	16,544	16,656
California State U., Northridge	299	29,469	25,654	29,491	9,640	12,991	13,333	16,330	17,979	19,618	21,095	21,228	16,573
U. Tulsa	300	23,387	19,489	20,270	21,757	27,077	25,066	22,347	20,879	20,072	18,648	18,787	16,449
Jackson State U.	301	44,862	49,998	46,943	36,264	26,609	23,908	23,832	22,790	19,465	18,160	15,081	16,157
CUNY, Queens C.	302	16,845	23,219	22,399	19,762	23,434	19,092	19,168	15,936	16,676	18,391	16,470	16,063
Meharry Medical C.	303	27,001	29,055	25,559	22,532	18,997	13,998	14,768	16,782	16,980	18,286	13,870	15,840
U. North Florida	304	8,041	9,379	7,031	4,480	3,674	3,689	5,141	6,476	9,994	12,341	13,573	15,782
South Dakota School of Mines and Technology	305	28,572	32,070	19,140	12,156	10,524	14,970	15,396	15,541	15,092	12,973	14,490	15,746
CUNY, Advanced Science Research Center	306	na	na	na	na	na	569	ne	3,541	5,666	8,310	11,373	15,403
Tennessee Technological U.	307	16,754	13,247	10,233	9,715	10,097	11,082	11,528	12,079	12,765	13,801	14,085	15,387
Texas Christian U.	308	5,306	5,595	7,775	8,574	7,872	8,007	6,589	7,255	5,808	6,552	15,326	15,336
U. of the Virgin Islands	309	32,350	21,994	25,719	20,041	20,371	20,630	21,215	12,298	11,957	12,236	13,631	15,231
California State U., Long Beach	310	15,494	14,595	13,696	12,796	10,097	8,830	16,390	18,805	22,880	18,664	16,684	15,134
Long Island U.	311	832	877	890	915	ne	ne	1,420	2,290	2,405	5,113	13,997	15,059
CUNY, Graduate School of Public Health and Health Policy	312	na	na	na	na	na	na	na	na	9,751	9,521	12,177	15,035
Montana Technological U.	313	7,424	6,705	11,765	11,059	11,348	11,595	11,851	13,059	12,666	12,731	12,987	14,933
James Madison U.	314	7,038	7,303	8,891	5,835	4,628	3,712	3,303	3,248	4,191	8,726	10,247	14,687
U. Baltimore	315	4,229	5,944	5,556	5,448	4,990	5,022	5,798	6,851	10,556	12,451	15,054	14,672
U. Missouri, Saint Louis	316	14,628	18,461	19,356	20,869	18,618	12,061	13,460	12,042	12,266	14,432	15,352	14,632
New School	317	5,178	6,420	7,568	9,219	7,160	8,978	17,425	12,740	13,606	13,421	13,186	14,281

TABLE 21

## Higher education R&amp;D expenditures, ranked by FY 2021 R&amp;D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Alcorn State U.	318	10,280	11,397	11,515	11,315	10,060	9,396	8,204	16,129	13,834	14,435	13,710	14,188
North Carolina Central U.	319	6,870	9,496	11,076	8,979	11,537	12,448	12,463	14,119	14,942	16,227	15,833	14,105
Humboldt State U.	320	9,845	9,570	9,510	8,025	8,306	11,218	16,143	15,969	15,044	15,076	14,236	14,103
Loma Linda U.	321	35,990	39,409	31,772	31,715	23,375	25,519	22,977	21,846	19,892	17,938	15,984	14,029
Idaho State U.	322	20,495	21,450	21,179	22,147	20,610	17,866	20,447	18,564	18,081	14,972	14,478	13,953
Northeast Ohio Medical U.	323	10,819	13,581	13,358	12,722	15,916	17,103	18,823	19,216	18,231	18,016	15,758	13,853
Rosalind Franklin U. of Medicine and Science	324	12,426	14,261	15,587	17,401	17,794	16,604	16,760	17,006	16,765	16,126	14,601	13,805
Western Washington U.	325	10,571	9,498	7,597	8,157	8,567	9,921	10,743	13,014	13,075	11,983	12,823	13,450
Sam Houston State U.	326	7,555	5,816	4,349	4,608	3,996	3,086	3,266	3,658	7,152	9,445	12,437	13,315
Charles R. Drew U. of Medicine and Science	327	22,152	22,150	20,580	18,547	20,686	14,128	13,360	15,652	11,490	13,739	13,682	13,228
U. Hawaii, system office	328	ne	ne	ne	ne	ne	ne	ne	ne	12,340	12,159	13,568	12,918
Loyola Marymount U.	329	4,557	6,455	5,746	6,766	7,635	6,389	7,504	7,071	7,911	7,272	7,193	12,819
Xavier U. Louisiana	330	8,029	9,849	10,606	8,789	9,346	9,588	12,084	12,424	11,784	10,152	11,387	12,799
CUNY, John Jay C. of Criminal Justice	331	5,916	6,205	9,319	7,355	8,633	8,689	9,688	11,934	14,310	12,295	13,939	11,791
Hampton U.	332	14,455	12,414	15,356	12,641	11,169	14,895	14,225	16,482	14,424	13,605	11,402	11,669
California State U., San Bernardino	333	4,188	11,591	9,303	11,942	13,582	15,317	10,771	12,924	16,702	16,062	10,819	11,607
Texas Tech U., Health Sciences Center, El Paso	334	ne	ne	ne	ne	23,282	18,889	17,391	16,479	12,556	11,883	10,421	11,360
U. Tennessee, Chattanooga	335	10,749	9,251	10,896	7,844	6,239	6,817	5,600	6,352	7,585	9,280	10,834	11,192
Rhode Island C.	336	ne	8,027	10,389	10,385	8,938	10,080	9,943	9,030	9,287	9,480	10,094	10,990
Midwestern U.	337	3,626	4,022	5,200	6,292	7,310	8,560	7,732	9,207	10,173	10,343	10,479	10,961
U.S. Naval Academy	338	11,093	10,543	9,610	10,816	10,861	9,609	11,374	13,541	14,057	13,621	13,123	10,818
Salisbury U.	339	3,503	1,852	6,891	6,959	7,923	7,960	8,473	7,731	9,119	9,368	9,496	10,552
Duquesne U.	340	15,804	16,814	15,547	15,661	15,025	16,159	17,089	17,197	17,420	16,947	17,485	10,521
California State U., San Marcos	341	5,788	6,795	7,802	8,809	8,302	6,432	6,634	6,549	8,348	10,595	13,250	10,213
Virginia State U.	342	7,466	8,562	10,296	9,535	8,374	7,808	8,147	10,725	10,673	11,457	10,014	10,123
Missouri State U.	343	7,770	5,584	4,340	3,882	3,782	3,540	3,069	3,215	4,409	5,910	13,131	10,014
West Texas A&M U.	344	7,346	5,847	6,937	5,510	5,407	4,513	4,048	4,943	4,797	5,437	6,220	9,920
St. Edward's U.	345	ne	7,160	5,906	8,040	3,975	9,515	9,325	10,149	10,431	9,650	9,619	9,527
California State U., Los Angeles	346	7,714	8,823	7,192	7,659	5,172	5,010	5,371	8,274	9,594	12,476	10,590	9,382
California State U., Fresno	347	8,698	8,597	8,359	7,682	8,109	8,624	8,586	8,102	8,988	8,599	8,856	9,213
Texas Southern U.	348	7,003	6,318	6,380	6,548	6,038	5,005	4,495	4,722	3,740	4,893	10,138	9,128
Alabama A&M U.	349	30,497	30,238	29,979	29,720	29,461	29,202	25,112	21,022	16,932	12,840	8,749	9,065
California State U., Fullerton	350	21,776	28,186	22,222	18,478	7,919	5,611	5,755	5,510	6,348	7,173	5,929	9,006
Bryn Mawr C.	351	7,476	8,388	9,837	9,452	9,143	11,692	10,867	11,146	10,282	9,846	11,575	8,987
Clark Atlanta U.	352	8,515	8,245	10,406	9,159	9,192	9,945	8,513	8,007	7,833	9,048	8,452	8,892
Ball State U.	353	20,477	18,765	11,740	10,357	9,209	10,548	11,763	8,797	11,163	12,145	9,429	8,826

TABLE 21

**Higher education R&D expenditures, ranked by FY 2021 R&D expenditures: FYs 2010–21**

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021						
Kentucky State U.	354	4,912	4,562	6,859	5,605	5,694	6,017	7,178	8,151	i	9,125	8,433	7,963	8,756					
Central State U.	355	3,233	3,821	3,591	2,771	2,025	1,508	1,643	2,008		3,615	3,766	6,107	8,751					
U. Arkansas, Pine Bluff	356	8,343	9,415	9,082	8,911	8,198	8,425	8,873	8,136		8,349	9,024	8,540	8,713					
U. Maryland, Eastern Shore	357	8,692	8,664	7,309	8,826	8,982	9,700	8,250	7,403		4,941	7,133	8,092	8,636					
Arkansas State U., Jonesboro	358	11,115	13,435	14,250	10,463	8,099	8,453	8,169	7,952		8,245	8,945	8,640	8,422					
U. Washington, Bothell	359	630	2,857	4,285	4,704	7,550	7,657	8,406	10,219		8,097	7,950	7,107	8,311					
Florida Gulf Coast U.	360	13,906	17,051	14,393	14,204	9,626	8,992	7,335	6,025		5,115	5,907	6,671	8,197					
Winston-Salem State U.	361	ne	1,179	1,977	841	ne	ne	1,356	1,575		1,629	2,011	5,781	8,123					
U. of the District of Columbia	362	5,012	4,422	4,030	3,073	2,361	2,043	3,469	3,733		2,960	4,800	4,590	8,104					
Wesleyan U.	363	8,397	10,367	8,945	8,120	7,262	7,223	7,740	8,945		10,662	9,958	8,300	8,009					
Clark U.	364	7,111	6,861	7,260	5,693	6,168	7,050	6,970	8,453		8,318	10,193	10,277	7,931					
William Paterson U.	365	1,051	1,452	ne	ne	ne	ne	1,919	3,012		9,456	10,122	9,603	7,867					
Oklahoma State U., Center for Health Sciences	366	4,398	2,815	2,122	2,137	1,805	1,625	2,182	2,454		2,608	5,408	8,378	7,758					
Lincoln U., Jefferson City	367	8,475	8,518	7,899	6,585	6,742	6,296	5,826	5,164		4,215	4,581	5,777	7,621					
U. San Diego	368	2,934	3,483	4,275	4,554	5,146	4,476	4,734	5,089		5,642	6,036	8,607	7,580					
U. Michigan, Dearborn	369	6,779	7,554	6,015	6,846	8,176	7,802	7,904	8,315		8,094	8,813	8,777	7,472					
U. Hawaii, Hilo	370	14,857	9,934	22,003	16,009	9,323	14,495	11,287	7,008		7,133	6,864	6,992	7,411					
U. Arkansas, Little Rock	371	11,007	12,039	10,500	13,107	8,068	7,003	7,604	6,833		8,167	9,975	9,711	7,397					
Claremont Graduate U.	372	7,116	6,589	10,350	9,705	9,540	i	9,375	i	9,210	i	9,045	i	8,880	i	8,715	i	9,403	7,235
Eastern Michigan U.	373	14,133	11,643	12,437	3,128	1,428	1,761	3,815	6,281		6,600	7,175	9,088	7,233					
U. Oklahoma, Tulsa	374	ne	ne	ne	ne	ne	4,104	4,962	4,487		6,233	6,373	7,483	7,185					
California State Polytechnic U., Pomona	375	6,493	7,198	6,597	6,988	5,455	4,611	5,254	5,863		8,043	6,099	7,396	7,011					
Western Kentucky U.	376	9,943	8,344	10,639	9,322	8,280	7,854	8,926	10,814		9,617	9,281	8,241	6,944					
California State U., Monterey Bay	377	5,305	6,959	6,567	6,129	4,787	5,492	5,680	5,397		5,799	6,444	5,874	6,882					
Grand Valley State U.	378	5,044	6,429	i	7,814	i	9,202	8,198	7,453		6,764	6,917	6,968	6,592	6,792	6,809			
Western U. of Health Sciences	379	1,786	1,768	3,005	3,721	5,474	4,904	6,895	6,187		5,140	4,951	5,899	6,688					
DePaul U.	380	4,889	5,798	5,706	5,524	6,415	9,479	9,558	8,561		7,079	6,144	6,557	6,675					
Edward Via C. of Osteopathic Medicine	381	ne	2,453	2,576	4,992	2,633	2,237	5,692	8,119		7,601	7,225	7,475	6,629					
West Virginia State U.	382	3,770	4,176	5,087	4,491	7,221	7,365	5,224	6,305		6,535	5,829	5,775	6,565					
C. Charleston	383	14,218	8,320	9,579	10,224	10,034	10,607	10,189	8,927		7,375	7,610	5,728	6,361					
Langston U.	384	4,492	5,206	5,326	4,932	8,512	8,126	11,178	11,025	i	10,872	i	10,719	14,409	6,345				
CUNY, Brooklyn C.	385	6,846	9,306	9,216	8,064	9,407	9,091	9,602	7,393		6,600	6,837	i	7,074	6,318				
California State U., Bakersfield	386	2,083	3,162	1,241	2,602	2,432	3,192	3,161	4,652		5,577	7,591	7,053	6,253					
Wellesley C.	387	8,422	7,242	8,439	9,113	10,127	9,595	11,664	10,326		11,530	8,810	8,088	6,252					
U. New England	388	3,560	4,016	5,224	6,637	7,650	7,498	7,566	8,064		6,700	7,346	6,886	6,234					
Philadelphia C. of Osteopathic Medicine	389	1,278	2,401	1,898	2,614	2,209	2,561	2,458	2,969		3,059	3,162	3,360	6,186					





TABLE 21

## Higher education R&amp;D expenditures, ranked by FY 2021 R&amp;D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
U. Detroit Mercy	425	1,148	1,462	970	ne	1,320	1,882	3,654	2,748	4,605	5,210	4,786	4,578
Morehouse C.	426	7,857	8,485	i 9,113	9,581	7,349	6,180	4,315	3,667	4,531	4,564	4,825	4,533
Claremont McKenna C.	427	5,725	5,316	5,365	i 5,414	i 5,463	ne	6,094	5,818	5,693	6,214	5,846	4,515
Appalachian State U.	428	2,898	3,835	4,438	3,051	4,289	3,878	3,146	4,475	3,631	3,268	4,894	4,509
Bucknell U.	429	5,456	5,043	4,009	4,297	4,464	4,140	4,516	i 4,892	i 5,269	5,625	5,051	i 4,476
New York Institute of Technology	430	1,785	2,059	3,013	4,007	5,761	4,169	4,114	3,236	3,832	5,820	3,580	4,465
West Chester U. Pennsylvania	431	5,584	i 8,103	4,591	1,635	2,793	5,009	5,895	7,293	6,340	6,777	6,414	4,433
U. Wisconsin-Stevens Point	432	6,766	6,171	i 5,576	4,392	3,919	i 3,446	i 2,973	3,420	i 3,867	i 4,314	i 4,764	4,401
Fisk U.	433	7,700	4,849	4,058	6,565	i 9,073	9,854	i 10,635	5,017	2,790	4,748	3,904	4,320
Norfolk State U.	434	5,944	7,140	8,336	6,431	6,936	5,348	7,593	7,296	6,914	8,050	7,153	4,316
Oregon Institute of Technology	435	ne	258	ne	ne	ne	2,056	4,027	3,595	i 3,163	4,793	4,267	4,314
U. Washington, Tacoma	436	872	1,359	1,845	2,203	2,938	3,618	3,957	3,246	3,006	3,471	3,504	4,291
CUNY, Graduate Center	437	11,562	11,974	9,173	11,982	7,797	6,175	7,093	i 8,011	4,781	5,399	4,787	4,265
California State U., Chico	438	2,881	2,684	2,492	2,868	2,384	1,837	2,363	1,600	2,452	3,232	4,305	4,209
CUNY, Lehman C.	439	3,593	i 3,762	3,228	2,904	3,265	3,130	5,347	4,979	5,556	4,690	4,154	4,181
Grinnell C.	440	2,069	1,340	2,735	4,023	3,974	3,723	4,183	4,953	5,573	5,500	5,826	4,122
Smith C.	441	4,613	4,529	4,246	4,234	4,283	5,268	4,466	6,055	5,954	6,041	4,685	4,085
U. New Haven	442	ne	2,009	2,723	1,400	1,616	i 1,832	3,822	5,005	5,585	5,062	3,843	4,069
U. North Carolina, general administration	443	ne	ne	ne	ne	ne	4,197	4,137	3,721	4,843	4,154	3,942	4,024
U. of the Sciences Philadelphia	444	1,964	3,504	3,610	3,765	2,922	4,076	3,308	3,980	3,671	3,740	3,761	4,005
U. Central Arkansas	445	2,670	2,821	3,277	2,913	4,064	3,502	3,453	3,313	3,620	3,477	3,455	3,990
Fayetteville State U.	446	11,865	14,618	15,719	16,698	14,732	13,746	15,725	5,105	4,980	4,695	2,797	3,933
South Carolina State U.	446	7,167	10,037	i 12,909	12,809	i 12,709	i 12,607	13,076	i 14,300	15,130	i 3,659	3,796	i 3,933
Murray State U.	448	3,396	3,718	3,345	2,192	2,080	2,371	2,124	2,459	2,872	3,710	3,019	3,844
Haverford C.	449	3,620	2,765	2,588	2,769	2,546	2,633	2,173	2,442	3,041	3,752	4,473	3,835
U. Central del Caribe	450	7,122	7,515	7,313	7,095	7,181	6,964	7,090	5,634	4,111	3,953	3,931	3,831
Texas A&M U.-Commerce	451	2,679	2,242	2,279	2,541	2,833	3,755	2,943	4,227	3,431	3,403	4,166	3,827
Carleton C.	452	4,575	5,382	4,957	5,848	5,657	6,746	6,385	6,888	5,515	4,388	3,732	3,800
Towson U.	453	3,052	3,574	2,599	2,800	2,997	3,153	2,303	2,834	3,194	3,423	3,612	3,794
National Defense U.	454	ne	ne	ne	5,865	7,682	5,542	6,447	6,293	4,276	4,231	4,583	3,786
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	455	ne	2,342	2,562	2,979	3,356	3,089	3,177	3,285	3,502	3,769	3,737	3,776
Texas A&M International U.	456	2,428	3,121	3,344	3,674	3,441	2,917	3,742	4,745	5,735	6,068	3,067	3,740
Franklin and Marshall C.	457	3,770	3,439	2,997	3,475	3,105	3,888	3,772	4,385	4,769	5,041	3,623	3,722
Albany C. of Pharmacy and Health Sciences	458	3,074	3,496	2,639	2,637	3,200	2,533	1,789	2,567	2,732	3,383	3,765	3,687
Pace U.	459	3,085	3,732	4,214	3,611	4,373	4,647	5,359	5,028	4,282	3,855	4,272	3,649

TABLE 21

**Higher education R&D expenditures, ranked by FY 2021 R&D expenditures: FYs 2010–21**

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Occidental C.	460	2,289	1,809	1,592	1,634	2,177	1,544	2,008	1,764	1,445	2,458	2,657	3,587
U. Massachusetts, central office	461	ne	ne	3,173	3,617	5,875	5,056	5,219	4,394	5,298	4,916	5,225	3,541
Kean U.	462	ne	1,497	2,029	761	ne	1,064	908	ne	ne	ne	2,201	3,538
Western Illinois U.	463	1,221	1,528	4,514	1,983	1,349	860	ne	2,006	2,466	2,373	2,461	3,532
U. Texas of the Permian Basin	464	1,417	1,232	1,707	1,146	1,532	1,725	1,561	1,152	668	ne	2,105	3,504
Touro U.	465	1,221	1,779	2,237	2,155	3,067	3,106	3,466	3,122	3,233	3,543	3,551	3,489
SUNY, C. of Optometry	466	3,529	3,738	3,466	3,637	3,481	3,906	4,169	3,304	3,120	2,968	3,477	3,460
Dakota State U.	467	ne	1,015	5,709	1,574	1,446	1,152	2,171	2,284	3,619	3,710	4,412	3,416
Northern Kentucky U.	468	2,316	2,397	2,201	1,810	2,052	2,026	1,846	1,649	1,653	2,363	2,693	3,403
U. Virginia's C. Wise	469	481	336	ne	ne	ne	ne	ne	ne	ne	ne	ne	3,310
Colgate U.	470	2,851	2,291	3,268	2,704	2,444	2,721	3,219	3,414	3,823	3,756	2,913	3,306
Swarthmore C.	471	2,984	2,994	3,281	3,415	3,528	2,943	3,211	3,569	3,921	4,203	3,544	3,296
U. Northern Iowa	472	3,064	4,248	3,615	3,678	3,711	4,032	3,632	3,303	2,983	3,628	2,970	3,259
Stephen F. Austin State U.	473	9,127	6,046	5,495	4,612	4,298	5,170	4,749	3,677	3,336	3,679	3,672	3,204
U. Nebraska, Kearney	474	1,655	2,199	1,715	1,761	1,504	1,496	1,864	3,510	2,639	2,919	2,640	3,201
Milwaukee School of Engineering	475	3,944	4,472	4,635	4,376	4,410	4,524	3,930	3,374	3,232	4,026	3,190	3,193
U. Northern Colorado	476	2,607	2,078	2,896	3,034	4,176	3,652	4,028	4,538	5,089	4,571	3,738	3,159
Santa Clara U.	477	3,816	2,407	3,329	2,376	2,883	1,659	2,056	2,145	2,299	2,319	2,682	3,142
MGH Institute of Health Professions	478	ne	607	ne	ne	ne	3,931	2,548	2,282	3,328	4,130	3,549	3,037
U. Wisconsin-La Crosse	479	4,141	3,862	i	3,583	3,796	3,424	3,615	3,211	3,187	3,569	2,692	2,795
Colorado State U., Pueblo	480	413	364	ne	ne	ne	ne	ne	ne	ne	3,107	3,104	2,990
Sonoma State U.	481	858	825	ne	1,938	1,714	1,163	693	ne	ne	ne	1,545	2,957
St. John's U., New York	482	1,643	1,786	2,161	2,401	2,507	2,558	2,307	2,542	2,903	2,352	3,282	2,940
Pennsylvania State U., Harrisburg	483	2,734	3,460	2,903	2,230	2,557	3,379	2,558	1,654	2,119	2,805	1,866	2,938
Middlebury C.	484	2,292	2,408	3,031	2,179	1,450	1,599	1,822	2,043	1,895	1,657	1,720	2,927
Saint Joseph's U.	485	2,918	3,073	2,955	2,921	1,988	2,093	2,171	2,409	2,151	2,851	3,150	2,922
Trinity U.	486	1,446	1,355	1,611	3,094	2,992	2,633	2,383	3,274	3,244	3,736	3,472	2,905
CUNY, C. Staten Island	487	3,290	4,188	4,955	3,691	3,731	3,060	3,511	4,250	4,118	i	3,986	3,682
Western Carolina U.	488	2,376	1,451	1,811	1,028	1,048	1,145	1,305	1,474	1,507	2,633	2,696	2,847
Northwest Indian C.	489	2,426	2,744	i	2,847	3,247	2,609	i	ne	ne	2,154	2,659	2,708
California State U., Maritime Academy	490	ne	3,005	2,793	2,480	1,011	1,542	2,205	1,921	3,039	2,959	3,202	2,799
Youngstown State U.	491	4,523	4,732	3,598	3,785	3,464	3,348	2,342	4,439	4,463	4,447	4,120	2,775
Austin Peay State U.	492	ne	2,180	2,124	2,067	2,002	2,113	1,823	2,134	2,644	2,285	2,833	2,740
Pittsburg State U.	493	1,759	1,687	1,479	1,536	2,475	2,210	2,162	2,255	2,253	2,513	2,173	2,730
California State U., Dominguez Hills	494	2,743	2,780	2,894	4,671	3,614	i	2,557	2,790	1,858	2,043	1,957	2,690
Alfred U.	495	4,524	6,084	5,451	6,731	4,655	5,193	3,975	3,231	3,641	5,153	2,780	2,660

TABLE 21

**Higher education R&D expenditures, ranked by FY 2021 R&D expenditures: FYs 2010–21**

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Christopher Newport U.	496	1,110	1,669	1,327	1,187	1,508	1,208	1,172	1,264	1,732	1,961	2,608	2,656
Pepperdine U.	497	2,672	1,924	2,571	2,400	2,401	2,714	3,178	2,396	1,954	2,170	2,006	2,655
Alabama State U.	498	13,340	12,340	13,607	1,927	2,236	2,303	2,372	2,253	2,434	2,577	2,582	2,631
Bates C.	499	1,590	1,897	2,070	2,514	1,584	2,791	1,781	1,853	1,635	2,135	2,303	2,620
U. Illinois, Springfield	500	2,096	2,002	2,370	2,276	1,916	2,070	1,683	2,900	2,164	1,876	3,406	2,612
U. Wisconsin-Superior	501	5,890	6,187	6,041	ne	3,030	ne	ne	ne	3,068	2,250	2,301	2,602
Winthrop U.	502	ne	5,089	7,993	12,495	13,981	10,156	1,993	1,826	2,007	2,189	2,217	2,586
Pratt Institute	503	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	2,547
Dillard U.	504	8,425	7,936	7,448	7,741	6,939	9,387	9,566	7,095	6,573	2,772	2,523	2,528
CUNY, Baruch C.	505	2,616	2,645	3,605	2,264	2,183	2,451	2,998	2,543	2,817	2,387	2,396	2,521
Purdue U., Fort Wayne	506	8,523	8,864	8,570	8,128	7,882	7,052	5,952	5,254	4,945	2,416	2,264	2,495
Davidson C.	507	1,493	1,977	1,400	2,337	1,804	2,377	1,521	1,736	1,638	1,777	2,263	2,466
Johnson C. Smith U.	508	ne	ne	ne	ne	ne	ne	2,094	2,255	2,468	2,148	2,472	2,461
Furman U.	509	2,311	2,184	2,049	2,199	1,600	1,928	1,869	2,051	2,064	1,628	2,101	2,431
Saginaw Valley State U.	510	873	1,249	1,094	939	ne	1,220	1,190	1,406	1,640	2,818	2,343	2,428
Bowdoin C.	511	2,627	2,877	4,732	4,292	3,126	2,991	3,204	2,340	2,724	2,991	2,719	2,417
Central Washington U.	512	5,159	2,858	2,753	2,122	2,124	2,581	2,751	3,798	3,066	3,223	2,674	2,410
Framingham State U.	513	ne	ne	ne	ne	ne	ne	ne	1,901	164	ne	2,317	2,401
St. Cloud State U.	514	4,184	3,404	2,932	2,912	3,380	4,192	3,497	3,588	3,725	3,275	3,056	2,379
Harvey Mudd C.	515	3,214	3,861	3,512	3,595	3,127	3,272	4,332	3,748	3,790	3,353	2,916	2,359
California State U., Channel Islands	516	ne	524	ne	1,236	3,862	1,949	1,383	1,096	1,248	1,572	1,497	2,341
Skidmore C.	517	2,850	2,113	1,885	1,903	1,811	1,772	1,327	1,859	2,584	3,012	2,412	2,335
Marymount U.	518	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	2,307
U. Richmond	519	4,052	4,064	4,282	3,351	3,598	3,069	3,047	3,106	2,784	2,783	2,469	2,294
Spelman C.	520	3,181	2,273	2,148	1,602	1,595	1,524	1,929	2,079	2,350	2,751	2,750	2,282
Lewis and Clark C.	521	2,753	2,778	2,246	3,628	4,713	3,873	3,267	3,438	2,811	2,750	3,350	2,281
U. Texas, Tyler	522	5,679	2,766	8,520	5,317	6,894	4,610	2,844	1,837	1,828	2,063	2,007	2,279
Keck Graduate Institute	523	ne	2,313	1,920	2,357	2,132	1,722	1,814	1,875	1,967	2,095	2,152	2,254
Coastal Carolina U.	524	2,404	2,162	2,412	2,516	2,166	1,862	1,779	1,893	1,631	2,042	1,903	2,245
Palmer C. of Chiropractic, Davenport	525	4,693	4,861	4,507	3,774	2,736	1,698	1,510	1,836	1,600	1,650	1,900	2,233
U. Louisiana, Monroe	526	2,884	2,812	2,469	2,781	2,267	1,672	2,441	2,297	2,123	2,364	2,362	2,198
Minnesota State U., Mankato	527	3,837	2,654	2,082	2,640	3,310	2,294	4,034	2,471	2,943	3,392	2,754	2,170
Pomona C.	528	2,924	3,640	3,259	3,679	3,818	3,538	3,691	3,205	2,983	2,985	2,855	2,146
Sul Ross State U.	529	3,039	3,183	2,375	2,159	2,528	2,204	2,015	2,500	2,934	2,352	2,068	2,143
Grambling State U.	530	993	2,135	2,179	1,695	1,469	1,863	1,570	5,911	2,981	2,836	2,427	2,124
Tougaloo C.	531	2,978	2,753	2,613	2,639	2,285	2,689	2,473	3,030	3,173	3,380	2,102	2,092

TABLE 21

**Higher education R&D expenditures, ranked by FY 2021 R&D expenditures: FYs 2010–21**

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
California State U., Stanislaus	532	ne	1,487	1,881	1,342	1,136	1,080	1,248	1,365	1,394	1,477	1,843	2,085
SUNY, Geneseo	533	1,373	2,677	2,132	1,201	1,084	1,314	1,750	1,758	1,939	2,139	1,642	2,070
Citadel Military C. South Carolina	534	ne	415	ne	ne	ne	ne	ne	ne	ne	ne	1,012	2,054
Suffolk U.	535	ne	1,624	1,303	1,551	1,534	1,305	1,492	i	1,679	i	ne	2,043
U. South Carolina, Aiken	536	337	750	ne	1,309	1,133	1,154	1,445	2,961	2,602	2,481	2,590	2,042
Elon U.	537	ne	1,523	1,658	2,043	2,184	2,608	2,606	2,407	2,486	2,545	1,968	2,032
Mount Holyoke C.	538	2,788	3,317	3,323	3,118	3,871	3,826	3,403	3,635	3,027	2,979	2,016	2,026
U. of the Incarnate Word	539	ne	667	ne	ne	ne	848	ne	ne	1,338	1,800	1,469	1,982
New England C. of Optometry	540	1,457	1,751	2,237	2,172	1,234	1,077	980	ne	1,026	1,223	1,150	1,978
SUNY, Buffalo State	541	1,935	2,539	2,970	2,106	1,996	2,366	2,221	1,887	1,928	2,124	2,253	1,962
Hobart and William Smith Colleges	542	1,434	1,566	1,516	2,238	1,221	946	ne	952	ne	1,919	2,114	1,941
Mercyhurst U.	543	2,040	1,206	1,539	1,414	1,914	1,987	1,647	1,669	i	ne	1,801	i
Fort Lewis C.	544	392	606	ne	ne	ne	ne	ne	ne	ne	1,460	1,370	1,926
Eastern Washington U.	545	3,266	3,910	2,700	2,115	1,867	2,973	3,368	2,000	2,590	2,024	2,282	1,921
Northeastern Illinois U.	546	711	533	ne	ne	703	ne	ne	1,403	2,442	2,478	2,018	1,913
C. New Jersey	547	850	486	ne	ne	ne	ne	ne	1,078	949	ne	1,464	1,912
U. Puerto Rico, Cayey	548	927	1,474	1,916	1,726	1,795	1,521	1,415	1,109	1,359	1,870	1,974	1,881
U. Wisconsin-Green Bay	549	1,219	1,239	i	1,259	i	1,279	i	1,299	i	1,320	1,599	1,510
Manhattan C.	550	498	638	ne	ne	ne	ne	ne	ne	ne	1,190	1,307	1,864
Roger Williams U.	551	1,967	2,627	2,596	2,186	2,558	2,348	2,441	2,952	1,937	1,852	1,531	1,854
U. Wisconsin-Eau Claire	552	1,950	1,406	1,362	1,235	915	ne	1,238	1,641	1,227	1,530	1,318	1,852
Hawaii Pacific U.	553	ne	1,436	1,390	1,043	1,524	1,241	2,371	2,175	2,114	1,980	1,796	1,849
U. Houston-Downtown	554	1,013	1,351	2,267	1,444	2,414	2,459	1,784	2,397	2,508	2,216	2,299	1,828
Willamette U.	555	2,059	1,940	2,652	1,960	1,698	2,007	2,459	3,147	2,723	1,953	1,546	1,817
Savannah State U.	556	1,874	2,700	1,996	2,613	2,210	1,801	2,267	1,407	1,793	1,720	1,804	1,804
Trinity C., Hartford	557	1,875	1,934	2,102	1,786	2,131	1,717	1,598	2,856	1,672	1,858	1,428	1,775
Lawrence Technological U.	558	3,952	3,348	1,483	2,022	1,876	2,528	1,907	1,942	1,668	1,352	1,521	1,764
Morehead State U.	559	2,145	2,018	2,174	2,631	1,892	1,838	2,399	2,860	2,434	2,028	1,883	1,754
Hamilton C.	560	3,192	3,109	3,069	2,942	2,846	2,291	2,662	2,354	1,796	2,050	1,869	1,747
Heidelberg U.	561	ne	1,219	i	ne	1,129	1,539	1,109	1,286	1,621	1,280	1,237	1,125
Erikson Institute	562	ne	1,212	2,511	2,001	1,321	2,397	3,117	3,965	3,583	2,279	1,992	1,723
Southeastern Louisiana U.	562	2,561	1,952	2,121	2,067	1,503	2,670	2,128	2,206	2,039	1,971	2,258	1,723
Elizabeth City State U.	564	5,576	10,455	4,455	4,515	2,988	2,277	1,889	1,340	978	ne	1,473	1,717
U. Houston-Clear Lake	565	1,279	1,746	1,769	1,542	1,716	1,535	1,578	1,779	1,251	1,370	1,363	1,716
Colby C.	566	1,782	1,772	1,996	1,822	1,673	1,748	1,903	2,071	2,240	1,852	1,536	1,672
Monmouth U.	567	2,195	1,956	904	ne	865	ne	900	ne	ne	1,294	1,729	1,667

TABLE 21

## Higher education R&amp;D expenditures, ranked by FY 2021 R&amp;D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
CUNY, system office	568	ne	ne	1,817	1,210	1,088	1,782	1,655	1,114	3,253	2,619	1,704	1,664
Northwestern State U. Louisiana	569	1,464	1,189	1,102	1,022	792	ne	1,628	1,373	1,623	2,058	1,940	1,663
U. Wisconsin-Oshkosh	570	1,556	2,384	2,331	2,167	1,935	i 1,703	ne	1,507	i 1,544	i 1,581	i 1,618	1,656
Eastern Connecticut State U.	571	ne	216	ne	ne	1,459	1,149	1,209	1,228	1,100	1,659	1,799	1,646
Franklin W. Olin C. of Engineering	572	ne	1,016	1,777	1,157	1,561	2,136	1,762	1,553	1,254	1,655	1,404	1,627
Vassar C.	573	1,280	1,838	1,258	1,694	1,220	2,854	1,495	1,600	4,185	1,009	1,568	1,606
U. Ana G. Mendez, Gurabo	574	6,620	7,098	6,953	6,916	2,694	2,473	2,518	1,777	1,579	3,945	2,049	1,574
Seattle U.	575	1,337	i 1,274	642	ne	2,692	2,847	2,050	1,623	2,535	2,223	2,060	1,562
Troy U.	576	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,692	1,548
La Sierra U.	577	ne	732	ne	ne	1,057	1,165	1,255	2,202	2,227	1,581	1,647	1,517
Calvin U.	578	5,010	3,113	3,252	3,466	3,051	2,430	i 1,809	1,456	1,937	1,577	1,497	i 1,490
Drake U.	579	1,033	966	ne	918	ne	ne	1,558	1,215	1,103	865	ne	1,488
U. North Georgia	580	ne	ne	ne	ne	ne	ne	ne	2,064	2,465	2,068	1,905	1,415
Bowie State U.	581	ne	1,910	1,739	1,422	1,761	1,497	1,927	1,813	1,839	1,911	1,967	1,398
Union C., Schenectady	582	1,984	1,615	1,516	2,402	1,924	1,560	2,150	1,189	1,540	1,740	1,062	1,396
U. San Francisco	583	2,124	2,668	4,301	2,663	2,764	2,599	2,365	2,602	2,741	2,712	2,161	1,375
U. of the Pacific	584	6,120	4,704	5,291	4,563	4,088	2,734	3,013	2,155	3,014	3,078	1,713	1,371
CUNY, New York City C. of Technology	585	231	343	ne	ne	ne	ne	ne	ne	2,418	2,711	2,130	1,367
Northern Michigan U.	586	910	841	ne	ne	ne	ne	1,118	1,339	1,728	1,520	1,523	1,364
Marshall B. Ketchum U.	587	ne	ne	ne	ne	1,030	1,468	1,491	1,512	i 1,451	i 1,430	i 1,357	i 1,351
U. Puerto Rico, Humacao	588	1,971	i 1,976	1,949	1,455	1,145	784	ne	ne	1,168	1,195	1,456	1,321
Kettering U.	589	6,880	5,087	4,059	3,449	3,517	3,673	3,463	4,233	2,531	1,765	2,081	1,315
Central Connecticut State U.	590	776	1,451	1,506	1,574	1,185	1,259	1,322	995	ne	1,381	1,572	1,314
Babson C.	591	ne	696	ne	ne	ne	ne	2,108	1,849	1,917	1,845	2,352	1,286
Black Hills State U.	592	2,883	1,643	2,466	3,061	2,380	2,430	2,833	2,109	1,571	2,031	1,499	1,280
Macalester C.	592	4,389	4,653	1,721	1,457	1,455	1,286	1,562	1,916	1,404	1,808	1,755	1,280
SUNY, C. Plattsburgh	592	1,664	1,098	913	ne	1,008	1,135	1,020	1,003	1,604	1,729	1,452	1,280
Florida Polytechnic U.	595	na	na	na	na	na	212	ne	ne	ne	2,006	1,091	1,269
West Virginia School of Osteopathic Medicine	596	594	528	ne	ne	ne	ne	ne	ne	ne	ne	1,311	1,255
U. Hartford	597	1,137	2,419	2,007	1,807	1,606	1,701	1,803	1,801	1,073	1,528	1,436	1,252
Stockton U.	598	ne	1,455	927	ne	1,374	1,452	807	ne	2,560	2,634	4,236	1,246
Connecticut C.	599	1,532	1,801	1,740	1,842	1,966	1,900	1,972	1,875	1,349	1,894	1,598	1,244
Biola U.	600	ne	ne	ne	ne	ne	ne	1,000	i 1,034	i 1,085	i 1,155	i 1,187	i 1,243
Doane U.	601	ne	1,022	678	ne	1,033	474	ne	ne	1,092	1,093	1,123	i 1,176
U. Alaska, Southeast	601	1,759	1,274	1,382	1,559	1,512	1,588	1,808	1,621	1,641	1,341	1,264	1,176
U. Wisconsin-Platteville	603	681	715	i ne	ne	1,000	i 970	ne	1,068	i ne	1,084	i 1,104	i 1,144

TABLE 21

## Higher education R&amp;D expenditures, ranked by FY 2021 R&amp;D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
CUNY, York C.	604	ne	2,180	1,544	999	ne	716	ne	ne	ne	1,621	1,691	1,133
New Mexico Highlands U.	605	1,529	1,498	1,566	1,209	979	ne	1,111	1,023	952	ne	1,090	1,129 i
Albion C.	606	ne	799	ne	ne	ne	ne	ne	1,074	1,055	1,040	1,132	1,127 i
Saint John's U.	607	640	891	ne	1,444	1,623	1,372	1,459	1,267	1,208	1,191 i	1,130 i	1,125 i
U. of Mary Washington	608	ne	1,374	907	ne	ne	690	ne	ne	1,242	1,315	1,393	1,123
SUNY, C. Brockport	609	831	1,248	1,487	1,321	1,192	1,367	1,335	1,289	1,293	1,390	1,719	1,114
Northland C.	610	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,096 i
C. Wooster	611	988	1,225	966	ne	1,321	1,245 i	ne	1,644	1,494	1,758	1,076	1,071 i
C. of Saint Benedict	612	ne	867	ne	1,347	1,451	1,179	1,305	1,122	1,142	1,126 i	1,069 i	1,064 i
Indiana State U.	613	1,541	1,980	1,857	1,238	1,436	1,541	1,763	1,284	1,323	1,682	1,471	1,042
Alaska Pacific U.	614	434	518	ne	ne	ne	1,246	1,358	1,248	1,544	1,774	1,261	1,036
Canisius C.	614	221	205	ne	ne	ne	ne	ne	1,546	1,069	950	ne	1,036
Ithaca C.	616	1,077	1,025	1,132	1,245	1,248	972	ne	ne	ne	ne	1,199	1,030
Clafin U.	617	3,252	5,439	5,255	2,661	1,818	1,255	1,772	1,360	1,509	1,746	1,910	1,015
Lafayette C.	617	2,089	2,426	1,864	1,947	1,915	1,693	1,553	1,831	1,815	1,554	1,390	1,015
Augustana U.	619	912	1,578	1,160	1,045	1,106	782	ne	1,212	1,170	841	ne	1,013
SUNY, Oswego	620	783	977	ne	725	ne	ne	ne	1,658	1,982	1,781	1,534	1,003
U. Wisconsin-River Falls	621	441	551 i	ne	ne	ne	ne	ne	1,072	923	ne	1,107	999
Eastern Kentucky U.	622	3,531	3,782	3,404	2,845	2,221	1,681	1,486	1,248	1,142	1,125	1,010	986
Sacred Heart U.	623	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	972
Rhode Island School of Design	624	ne	551	ne	ne	ne	1,013	1,071 i	1,086 i	1,042 i	1,027 i	975 i	971 i
U. Hawaii, Maui C.	625	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	967
Liberty U.	626	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,780	1,894	937
Keene State C.	627	ne	2,290	2,338 i	2,387	2,601	966	ne	908	ne	1,061	1,063	919
Indiana U., South Bend	628	1,070	1,099	1,219	1,410	1,565	1,619	1,474	1,039	958	ne	ne	898
Arcadia U.	629	1,649	1,888	956	ne	ne	ne	ne	ne	ne	ne	ne	889
Albany State U.	630	740	1,416	2,225	1,658	1,549	1,356	1,496	1,393	1,301	1,491	1,060	880
U. Minnesota, Morris	631	672	899	ne	1,534	1,338	1,223	1,029	974	ne	1,234	1,004	855
Mills C.	632	1,679	2,237	2,747	3,869	3,619	3,159	3,540	3,353	1,850	1,643	1,541	850
National U. of Natural Medicine	632	ne	791	ne	ne	ne	ne	ne	921	ne	1,245	1,428	850
Fairfield U.	634	9,294	9,892	9,331 i	8,769	9,155	5,750	6,174	8,749	1,742	1,279	1,210	849
Fielding Graduate U.	635	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	843
St. Olaf C.	636	1,574	1,130	1,518	1,242	1,353	1,346	1,605	1,539	1,155	1,010	1,032	816
American Samoa Community C.	637	ne	ne	ne	ne	ne	1,337	793	ne	ne	860	ne	815
Andrews U.	638	1,195	854	ne	ne	ne	ne	ne	ne	ne	1,126	1,033	802
Fort Hays State U.	639	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,143	1,172	800

TABLE 21

**Higher education R&D expenditures, ranked by FY 2021 R&D expenditures: FYs 2010–21**

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Oberlin C.	640	1,985	1,710	1,856	1,670	1,819	1,932	1,305	1,887	1,803	2,076	1,182	776
Providence C.	641	917	758	ne	983	ne	1,329	1,196	1,014	1,215	1,042	1,092	766
U. Michigan, Flint	642	693	767	ne	ne	ne	ne	ne	1,466	1,237	1,448	1,247	752
Wheaton C., Wheaton	643	ne	1,187	844	ne	1,302	783	ne	1,270	1,751	2,173	1,322	729
Dordt U.	644	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	696
Niagara U.	645	1,090	1,656	2,475	2,193	1,946	1,828	1,505	1,823	2,523	2,057	1,124	509
Albizu U.	646	165	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	428
Lipscomb U.	647	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	307	321
Jacksonville State U.	648	398	624	ne	ne	ne	3,242	3,231	3,120	3,008	2,429	1,244	275
All other surveyed institutions	-	1,848,911	2,287,715	2,246,077	2,154,059	1,493,189	1,484,648	1,522,233	1,589,841	1,670,719	658,094	591,877	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

<sup>a</sup> Johns Hopkins University includes the Applied Physics Laboratory, with \$1,949,752 thousand in total R&D expenditures in FY 2021.

<sup>b</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

<sup>c</sup> The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

<sup>d</sup> The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

<sup>e</sup> The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

**Note(s):**

Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 22

## Higher education R&amp;D expenditures, ranked by all R&amp;D expenditures, by source of funds: FY 2021

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
All institutions	-	89,723,447	49,143,460	4,736,015	22,448,362	5,115,480	5,590,273	2,689,857
Johns Hopkins U. <sup>a</sup>	1	3,181,385	2,774,643	4,677	147,355	103,162	145,027	6,521
U. California, San Francisco	2	1,710,036	683,179	33,056	418,589	128,370	254,406	192,436
U. Michigan, Ann Arbor	3	1,639,645	891,125	2,066	581,768	91,117	63,650	9,919
U. Pennsylvania	4	1,631,950	792,089	20,733	511,958	190,755	111,885	4,530
U. Washington, Seattle	5	1,488,645	1,046,377	21,877	105,070	54,751	212,584	47,986
U. California, Los Angeles	6	1,454,880	721,043	71,014	302,528	87,959	194,232	78,104
U. California, San Diego	7	1,425,499	801,117	51,346	250,863	85,003	87,380	149,790
U. Wisconsin-Madison	8	1,380,075	646,764	135,923	412,540	31,502	117,817	35,529
Stanford U.	9	1,274,483	811,183	17,802	136,444	113,691	186,565	8,798
Harvard U.	10	1,254,008	616,589	5,137	384,197	55,357	172,327	20,401
Duke U.	11	1,237,686	776,632	1,073	153,692	187,864	98,223	20,202
Ohio State U.	12	1,236,111	559,797	45,862	425,597	129,914	50,022	24,919
U. North Carolina, Chapel Hill	13	1,205,883	747,895	9,550	304,506	48,938	79,885	15,109
Cornell U.	14	1,183,524	592,359	87,821	220,800	43,950	115,910	122,684
Yale U.	15	1,165,148	647,656	4,859	334,314	76,784	92,343	9,192
Texas A&M U., College Station and Health Science Center	16	1,147,720	528,057	198,483	313,192	32,978	45,135	29,875
U. Maryland <sup>b</sup>	17	1,142,264	713,283	42,597	307,481	30,638	43,450	4,815
U. Pittsburgh, Pittsburgh	18	1,135,416	724,993	9,484	255,241	33,240	65,217	47,241
U. Texas M. D. Anderson Cancer Center	19	1,124,971	217,073	293,325	233,279	211,849	32,741	136,704
Georgia Institute of Technology	20	1,114,481	852,319	107,465	71,780	56,015	23,558	3,344
Columbia U. in the City of New York	21	1,098,570	831,648	7,173	79,363	71,239	106,884	2,263
U. Minnesota, Twin Cities	22	1,072,961	570,946	69,842	309,620	44,460	45,879	32,214
New York U.	23	1,063,704	547,027	13,191	243,805	51,800	90,401	117,480
Vanderbilt U. and Vanderbilt U. Medical Center	24	1,019,273	586,880	2,897	313,810	81,360	31,526	2,800
Washington U., Saint Louis	25	989,214	606,127	1,471	188,980	105,176	85,060	2,400
Pennsylvania State U., University Park and Hershey Medical Center	26	970,544	622,532	46,993	216,134	33,787	26,230	24,868
U. Florida	27	959,965	423,154	161,448	266,197	31,394	46,582	31,190
U. Southern California	28	955,565	574,185	14,664	179,130	61,867	56,073	69,646
Massachusetts Institute of Technology	29	949,076	483,526	3,213	116,258	177,759	92,386	75,934
Northwestern U.	30	913,178	572,975	141	227,719	54,888	47,280	10,175
Emory U.	31	852,922	515,940	298	213,741	58,517	62,768	1,658



TABLE 22

**Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U. California, Berkeley	32	846,872	354,478	40,383	185,077	71,696	137,896	57,342
Icahn School of Medicine at Mount Sinai	33	820,260	554,582	5,500	137,874	59,235	48,289	14,780
U. California, Davis	34	817,409	373,719	75,116	207,272	56,160	44,693	60,449
U. Texas, Austin	35	779,348	489,827	30,336	139,669	68,580	43,258	7,678
U. Arizona	36	770,031	353,117	28,604	234,514	24,601	31,045	98,150
U. Illinois, Urbana-Champaign	37	731,268	406,612	26,853	206,718	41,455	33,562	16,068
Baylor C. of Medicine	38	716,976	365,472	34,447	239,079	29,465	48,513	0
Michigan State U.	39	710,178	349,889	41,609	275,632	11,016	17,600	14,432
Indiana U., Bloomington	40	695,258	326,326	3,863	264,093	29,077	70,216	1,683
Purdue U., West Lafayette	41	679,482	295,278	37,369	211,557	64,364	25,857	45,057
Arizona State U.	42	677,303	274,541	43,390	258,139	23,580	56,958	20,695
Boston U.	43	652,096	402,443	501	160,347	20,071	45,146	23,588
U. Alabama, Birmingham	44	644,330	423,290	9,355	116,561	61,764	31,641	1,719
Rutgers, State U. New Jersey, New Brunswick	45	643,955	339,015	84,201	111,501	40,861	49,049	19,328
U. Texas Southwestern Medical Center	46	632,134	257,611	68,114	151,111	38,886	52,491	63,921
U. Utah	47	624,737	340,434	4,638	203,839	38,783	33,417	3,626
U. Virginia, Charlottesville	48	611,313	297,273	8,714	181,375	28,643	34,515	60,793
U. Colorado Anschutz Medical Campus <sup>c</sup>	49	562,855	363,999	25,162	69,836	48,309	45,580	9,969
U. Iowa	50	553,876	283,763	5,395	220,579	25,536	18,601	2
U. Cincinnati	51	551,826	309,097	7,234	145,772	39,228	38,816	11,679
U. Colorado Boulder	52	547,724	459,816	4,348	33,465	10,691	14,357	25,047
North Carolina State U.	53	547,118	239,115	127,290	126,142	49,478	4,806	287
Virginia Polytechnic Institute and State U.	54	542,045	216,733	60,571	220,645	32,964	5,050	6,082
U. California, Irvine	55	523,752	255,010	15,891	130,928	40,622	34,512	46,789
U. Chicago	56	497,651	394,275	3	32,174	38,215	32,167	817
U. Georgia	57	493,944	188,451	54,706	220,665	11,212	14,029	4,881
Scripps Research Institute	58	485,435	272,181	2,103	147,290	22,399	41,462	0
SUNY, Polytechnic Institute	59	465,273	25,427	206,962	77,753	150,915	456	3,760
Oregon Health and Science U.	60	452,812	329,016	1,007	44,030	40,991	37,168	600
Colorado State U., Fort Collins	61	447,197	303,901	28,559	76,610	11,979	19,536	6,612
California Institute of Technology	62	438,624	293,197	8,142	50,562	17,193	47,355	22,175
U. Illinois, Chicago	63	429,585	237,949	8,027	137,227	13,998	25,065	7,319
U. Kentucky	64	429,241	220,703	33,287	127,488	8,529	11,078	28,156

TABLE 22

**Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
SUNY, U. Buffalo	65	425,349	210,257	27,020	132,361	21,474	24,932	9,305
Case Western Reserve U.	66	421,868	340,438	4,557	50,526	4,035	19,766	2,546
U. Rochester	67	409,255	309,647	3,074	41,775	34,036	15,949	4,774
U. South Florida <sup>d</sup>	68	405,088	185,364	23,254	161,442	14,798	10,584	9,646
Princeton U.	69	404,448	205,000	281	86,675	20,200	57,700	34,592
Carnegie Mellon U.	70	402,376	234,993	3,675	114,892	34,473	10,503	3,840
U. Missouri, Columbia	71	388,779	163,576	39,936	157,031	14,488	8,801	4,947
U. Kansas	72	385,637	187,249	33,921	112,360	27,517	11,831	12,759
Uniformed Services U. of the Health Sciences	73	384,490	275,573	0	82,058	0	26,859	0
U. Oklahoma, Norman and Health Science Center	74	380,048	193,639	38,203	116,014	19,294	9,504	3,394
U. Miami	75	375,841	231,001	15,057	69,955	34,768	24,311	749
Virginia Commonwealth U.	76	364,096	160,995	31,893	144,356	12,494	14,358	0
Iowa State U.	77	360,275	169,177	34,097	122,844	19,837	9,644	4,676
Washington State U.	78	357,648	179,536	48,317	106,804	9,897	11,326	1,768
Rockefeller U.	79	357,543	96,318	656	218,134	3,210	38,301	924
U. Massachusetts, Medical School	80	347,337	248,873	5,405	49,135	16,669	19,542	7,713
U. New Mexico	81	332,566	242,212	8,359	62,426	4,253	14,088	1,228
Dartmouth C. and Dartmouth Hitchcock Medical Center	82	330,226	152,335	1,446	144,008	4,723	19,660	8,054
Florida State U.	83	328,604	150,108	20,583	143,790	3,033	3,764	7,326
Utah State U.	84	325,223	264,575	22,481	24,792	6,975	482	5,918
U. Tennessee, Knoxville	85	316,273	135,202	12,577	151,533	7,224	5,995	3,742
U. Texas Health Science Center, Houston	86	308,823	165,139	42,636	47,653	16,305	24,200	12,890
U. Nebraska, Lincoln	87	307,083	106,564	55,626	111,550	19,843	6,145	7,355
U. Connecticut	88	302,329	183,362	4,394	88,458	9,827	12,683	3,605
Albert Einstein C. of Medicine	89	301,715	214,619	1,764	67,563	4,184	13,585	0
Temple U.	90	299,778	153,316	8,876	90,467	22,560	18,260	6,299
Louisiana State U., Baton Rouge	91	296,673	103,178	70,166	98,424	11,492	5,959	7,454
Georgetown U.	92	279,932	130,419	1,405	51,440	16,888	57,585	22,195
Medical U. South Carolina	93	277,761	162,394	4,423	72,286	22,129	8,899	7,630
Oregon State U.	94	276,955	179,180	47,981	25,573	6,517	2,956	14,748
Medical C. Wisconsin	95	276,850	136,385	640	85,666	23,118	25,747	5,294
Brown U.	96	276,331	198,574	28	50,127	4,925	19,410	3,267
Mississippi State U.	97	275,143	116,713	88,418	58,242	3,257	6,994	1,519

TABLE 22

**Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
SUNY, Stony Brook U.	98	274,516	162,972	10,323	84,647	5,135	9,416	2,023
U. Hawaii, Manoa	99	271,768	157,772	20,742	78,176	2,660	11,138	1,280
Auburn U., Auburn	100	266,374	91,157	28,351	130,767	6,492	1,818	7,789
George Washington U.	101	266,108	161,349	2,296	63,225	4,155	26,131	8,952
Wake Forest U.	102	264,216	188,887	12,370	23,080	15,449	16,849	7,581
Woods Hole Oceanographic Institution	103	262,048	222,351	1,029	16,006	2,804	9,792	10,066
U. California, Santa Barbara	104	248,961	122,168	5,213	54,569	20,480	28,768	17,763
Florida International U.	105	246,075	105,309	19,445	111,950	2,311	6,437	623
U. Notre Dame	106	240,324	109,891	665	84,208	13,499	17,293	14,768
Clemson U.	107	237,485	89,883	25,748	98,955	16,178	6,562	159
Wayne State U.	108	235,519	117,976	9,594	72,758	4,228	26,574	4,389
U. Delaware	109	231,532	157,725	10,335	47,254	6,026	4,176	6,016
Tufts U.	110	224,956	166,809	3,242	15,442	8,655	26,955	3,853
U. Texas Health Science Center, San Antonio	111	219,734	106,824	25,110	51,848	10,085	25,548	319
U. Central Florida	112	218,596	109,310	11,703	76,091	11,489	5,025	4,978
U. South Carolina, Columbia	113	215,374	97,193	6,108	96,392	3,409	8,354	3,918
George Mason U.	114	214,207	103,712	3,387	65,041	5,910	30,643	5,514
U. Massachusetts, Amherst	115	213,824	116,349	8,595	71,954	7,710	5,479	3,737
Northeastern U.	116	211,342	143,421	2,227	44,964	9,547	10,718	465
Rice U.	117	207,404	95,648	7,372	62,352	7,123	30,638	4,271
Georgia State U.	118	206,472	79,834	6,353	105,546	615	11,938	2,186
Tulane U.	119	205,206	113,819	4,442	49,660	8,279	15,569	13,437
Kansas State U.	120	203,846	77,779	42,139	68,224	6,671	7,814	1,219
U. Houston	121	202,536	77,489	35,530	71,291	7,745	7,309	3,172
U. Nebraska, Medical Center	122	200,974	111,042	11,950	38,843	9,286	14,356	15,497
Thomas Jefferson U.	123	200,393	109,448	2,542	47,728	18,591	10,704	11,380
U. Louisville	124	200,362	97,179	7,351	65,375	9,846	7,685	12,926
West Virginia U.	125	199,907	89,802	9,993	72,419	4,505	5,949	17,239
Oklahoma State U., Stillwater	126	198,799	47,428	21,258	117,732	9,786	2,322	273
Texas Tech U.	127	197,739	33,938	27,357	108,999	12,221	14,929	295
U. Vermont	128	195,320	103,554	727	74,407	1,989	8,801	5,842
U. Arkansas for Medical Sciences	129	194,709	83,387	24,809	63,526	13,493	4,730	4,764
Montana State U., Bozeman	130	193,577	113,257	17,738	52,653	2,084	4,742	3,103

TABLE 22

**Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Wichita State U.	131	192,042	77,427	6,161	20,493	86,621	297	1,043
U. Dayton	132	191,228	181,445	425	2,288	6,277	272	521
U. California, Riverside	133	189,600	97,182	11,424	49,131	6,809	7,703	17,351
U. Texas Medical Branch	134	185,759	117,915	7,739	39,565	8,424	12,116	0
U. Louisiana, Lafayette	135	181,400	65,436	7,472	40,891	67,346	255	0
U. Nevada, Reno	136	175,386	77,246	7,001	74,924	2,919	1,698	11,598
U. Alaska, Fairbanks	137	172,957	128,229	1,956	36,765	2,534	1,758	1,715
U. New Hampshire	138	167,373	99,323	7,547	47,286	7,870	3,511	1,836
New Jersey Institute of Technology	139	166,587	77,057	13,030	60,952	1,278	6,242	8,028
U. Arkansas, Fayetteville	140	164,443	48,534	50,207	51,933	6,561	6,257	951
North Dakota State U.	141	164,050	42,824	43,787	69,112	1,508	536	6,283
U. California, Santa Cruz	142	160,615	86,263	4,943	31,668	7,273	16,325	14,143
Drexel U.	143	152,752	93,517	4,601	36,063	3,196	8,682	6,693
Syracuse U.	144	151,717	34,200	4,328	96,162	6,481	10,501	45
U. Alabama, Huntsville	145	149,792	116,971	4,743	26,294	688	610	486
U. Maine	146	146,801	65,249	17,875	56,407	3,612	2,857	801
U. Texas, San Antonio	147	145,362	42,952	17,629	67,130	5,196	9,854	2,601
U. North Dakota	148	143,506	58,463	34,750	41,133	8,194	740	226
U. Oregon	149	139,193	82,242	769	48,194	1,611	5,448	929
U. Alabama, Tuscaloosa	150	129,509	53,880	15,693	55,682	2,679	1,291	284
U. Rhode Island	151	129,296	78,923	7,798	37,252	2,060	2,034	1,229
U. Texas, Arlington	152	126,477	46,946	19,262	49,685	3,006	6,131	1,447
SUNY, Binghamton U.	153	124,565	23,225	6,737	89,466	3,399	962	776
U. Texas, Dallas	154	122,825	58,249	11,065	29,308	6,581	17,622	0
U. Montana, Missoula	155	121,571	70,686	907	46,982	601	2,017	378
Rensselaer Polytechnic Institute	156	119,056	52,465	3,714	40,932	16,432	1,917	3,596
Augusta U.	157	116,480	61,943	200	46,412	3,282	4,531	112
U. Mississippi	158	116,175	76,886	4,165	28,869	2,600	3,165	490
Cold Spring Harbor Laboratory	159	114,903	56,907	21	35,757	3,333	18,885	0
SUNY, U. Albany	160	114,501	56,425	1,749	49,949	573	2,735	3,070
New Mexico State U.	161	110,580	64,699	22,094	13,581	2,562	1,982	5,662
U. Tennessee, Health Science Center	162	109,562	56,021	5,433	30,132	3,708	7,514	6,754
U. Texas, El Paso	163	109,410	43,930	19,841	34,866	994	3,441	6,338

TABLE 22

**Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
San Diego State U.	164	107,681	43,473	4,107	56,085	523	2,340	1,153
Brandeis U.	165	107,549	52,147	404	34,998	1,418	9,045	9,537
Rush U.	166	107,398	73,279	1,338	9,645	15,329	7,807	0
U. Idaho	167	105,895	51,021	33,391	16,337	1,794	586	2,766
U. Nevada, Las Vegas	168	101,009	27,178	2,902	67,657	905	467	1,900
U. Massachusetts, Lowell	169	94,708	48,179	4,201	36,562	3,444	1,664	658
U. Wyoming	170	93,202	54,444	4,681	26,166	6,088	1,756	67
U. Maryland, Baltimore County	171	84,418	59,882	7,220	12,334	1,860	1,979	1,143
Michigan Technological U.	172	81,715	41,505	576	30,768	7,078	422	1,366
Colorado School of Mines	173	81,443	61,421	1,351	3,657	9,036	1,990	3,988
U. North Texas, Denton	174	81,252	18,702	5,567	53,591	1,992	1,329	71
Saint Louis U.	175	79,005	41,411	548	24,824	3,614	8,537	71
Texas State U.	176	72,510	31,116	3,949	31,792	765	4,888	0
Cleveland State U.	177	71,451	47,402	1,458	16,391	1,755	4,303	142
Northern Arizona U.	178	69,129	41,744	10,179	14,963	839	1,286	118
William & Mary	179	68,801	29,928	3,895	28,188	543	4,453	1,794
U. Southern Mississippi	180	67,417	44,401	11,576	9,499	1,239	655	47
U. Memphis	181	67,092	21,578	7,208	34,139	814	3,142	211
American U.	182	65,912	12,076	513	42,117	774	9,199	1,233
Van Andel Research Institute	183	65,789	22,231	703	32,688	90	3,610	6,467
Indiana U.-Purdue U., Indianapolis	184	65,330	30,290	687	27,359	1,855	4,970	169
Boston C.	185	65,156	34,257	1,632	12,870	522	15,071	804
Naval Postgraduate School	186	65,101	54,855	0	9,608	264	62	312
U. Massachusetts, Boston	187	63,723	23,673	7,113	25,532	2,222	4,829	354
Old Dominion U.	188	62,332	25,514	17,685	14,098	918	3,565	552
San Jose State U.	189	60,100	30,877	7,617	19,350	1,080	1,071	105
Florida Atlantic U.	190	58,471	28,510	5,852	13,984	2,762	4,968	2,395
U. Texas Rio Grande Valley	191	58,187	13,018	6,945	29,053	265	8,701	205
CUNY, City C.	192	57,361	34,218	9,824	11,311	691	1,045	272
Rochester Institute of Technology	193	56,043	31,187	5,213	15,139	2,563	558	1,383
U. Wisconsin-Milwaukee	194	55,664	24,397	15,783	11,939	1,596	924	1,025
Missouri U. of Science and Technology	195	54,437	26,164	172	19,872	4,007	616	3,606
U. Toledo	196	53,169	32,601	884	14,308	2,718	2,592	66

TABLE 22

**Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Howard U.	197	52,412	35,443	1,176	12,094	2,860	839	0
Mercer U.	198	51,989	34,413	76	9,056	5,342	82	3,020
U. North Carolina, Charlotte	199	51,877	27,145	9,921	11,654	2,349	753	55
East Carolina U.	200	51,662	22,813	787	21,450	4,387	1,858	367
South Dakota State U.	201	51,542	18,607	15,713	3,929	1,304	2,820	9,169
U. Maryland Center for Environmental Science	202	51,201	14,072	25,740	8,670	496	1,636	587
U. California, Office of the President	203	50,848	653	29,282	20,864	0	0	49
U. North Texas, Health Science Center	204	50,698	32,464	9,224	6,615	1,633	626	136
Kent State U.	205	50,408	15,179	1,379	31,409	573	1,700	168
Ohio U.	206	49,764	19,164	883	24,765	3,433	1,040	479
Baylor U.	207	48,809	11,025	1,892	26,678	3,116	4,510	1,588
Worcester Polytechnic Institute	208	48,702	30,166	1,262	9,301	3,296	2,533	2,144
U. South Alabama	209	47,610	23,758	345	19,099	3,466	211	731
Southern Illinois U., Carbondale	210	47,210	12,655	492	25,725	7,901	437	0
Florida A&M U.	211	47,124	36,761	5,741	3,886	566	170	0
Boise State U.	212	46,065	31,357	2,402	10,836	576	670	224
U. California, Merced	213	45,964	18,621	7,048	14,224	373	1,290	4,408
Air Force Institute of Technology	214	45,703	27,025	0	18,015	663	0	0
SUNY, Upstate Medical U.	215	44,870	24,974	2,333	9,193	4,314	2,647	1,409
Louisiana State U., Health Sciences Center, New Orleans	216	44,370	34,272	244	3,743	2,800	3,178	133
U. Puerto Rico, Medical Sciences Campus	217	44,111	33,262	1,838	6,320	2,688	0	3
Loyola U., Chicago	218	44,036	26,793	188	8,941	3,359	3,695	1,060
Brigham Young U., Provo	219	43,916	30,439	1,217	6,514	3,592	1,772	382
Stevens Institute of Technology	220	43,386	33,998	1,642	5,491	1,403	675	177
Southern Methodist U.	221	41,960	17,886	1,039	18,643	2,072	2,144	176
Texas Tech U., Health Sciences Center	222	41,583	12,148	16,670	8,153	342	1,268	3,002
Portland State U.	223	41,311	29,842	3,576	4,722	847	1,724	600
Lehigh U.	224	41,279	29,051	2,243	8,806	531	613	35
North Carolina Agricultural and Technical State U.	225	40,751	25,755	542	14,005	149	257	43
U. Denver	226	38,751	23,415	951	6,869	1,740	5,281	495
Georgia Southern U.	227	37,201	3,373	259	29,635	3,482	452	0
Marquette U.	228	37,087	13,918	365	14,809	947	2,042	5,006
U. North Carolina, Greensboro	229	37,033	24,423	363	10,842	106	401	898

TABLE 22

**Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U. West Florida	230	36,837	13,313	170	22,485	614	255	0
San Francisco State U.	231	35,768	15,993	2,305	16,710	0	743	17
Catholic U. of America	232	35,548	23,128	150	5,753	624	1,013	4,880
SUNY, Downstate Health Sciences U.	233	34,459	27,620	23	5,397	354	950	115
U. Missouri, Kansas City	234	33,855	21,203	122	9,896	451	763	1,420
CUNY, Hunter C.	235	33,816	23,166	2,359	7,156	85	471	579
Morehouse School of Medicine	236	32,637	25,181	611	3,622	0	3,223	0
U.S. Air Force Academy	237	32,086	31,818	0	200	68	0	0
Texas A&M U.-Corpus Christi	238	30,500	10,967	9,110	4,589	603	2,642	2,589
Illinois Institute of Technology	239	29,698	24,762	291	2,080	1,074	861	630
U. Puerto Rico, Rio Piedras	240	28,896	15,108	150	13,026	181	348	83
New Mexico Institute of Mining and Technology	241	28,745	24,900	631	1,654	1,236	191	133
U. Massachusetts, Dartmouth	242	28,729	8,223	1,422	16,908	1,488	513	175
SUNY, C. of Environmental Science and Forestry	243	28,440	6,979	12,203	7,152	580	752	774
U. Texas Health Science Center, Tyler	244	27,928	12,007	6,884	3,545	111	5,381	0
U. South Dakota	245	27,537	11,664	1,772	13,629	0	472	0
Louisiana Tech U.	246	27,417	6,428	2,767	15,465	937	0	1,820
Tennessee State U.	247	26,880	20,378	455	5,986	43	18	0
Rowan U.	248	26,458	17,400	4,442	2,700	677	1,239	0
Desert Research Institute	249	26,365	16,641	378	3,572	521	4,109	1,144
Wright State U.	250	26,259	19,617	584	4,999	415	582	62
California Polytechnic State U., San Luis Obispo	251	25,953	11,163	2,537	9,139	1,053	2,003	58
Chapman U.	252	25,820	8,574	612	10,273	567	5,766	28
Western Michigan U. and Homer Stryker M.D. School of Medicine	253	25,314	13,944	1,074	7,033	1,697	547	1,019
Northern Illinois U.	254	25,261	9,080	899	14,630	155	467	30
Miami U.	255	25,138	9,412	1,610	12,023	1,249	508	336
Villanova U.	256	24,723	5,826	1,372	15,623	381	1,368	153
Louisiana State U., Health Sciences Center, Shreveport	257	24,600	12,359	19	8,765	297	3,160	0
Nova Southeastern U.	258	24,513	10,386	3,636	9,152	486	629	224
Teachers C., Columbia U.	259	24,335	8,521	700	NA	1,700	10,914	2,500
Illinois State U.	260	24,152	9,787	746	12,813	25	772	9
Rutgers, State U. New Jersey, Newark	261	23,854	16,281	573	5,723	8	879	390
U. Minnesota, Duluth	262	23,767	5,325	6,341	11,624	381	77	19

TABLE 22

**Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
California State U., Sacramento	263	23,699	5,582	11,012	5,344	147	508	1,106
Marshall U.	264	23,620	12,854	1,040	8,589	226	911	0
Texas A&M U.-Kingsville	265	23,578	9,265	4,652	3,614	353	5,468	226
Ponce Health Sciences U.	266	23,297	18,284	685	2,472	1,683	173	0
Creighton U.	267	23,251	8,585	4,347	7,115	1,478	542	1,184
Florida Institute of Technology	268	23,195	13,049	1,743	6,485	824	703	391
Delaware State U.	269	23,193	16,460	2,432	4,094	195	12	0
Middle Tennessee State U.	270	22,531	4,150	480	16,884	259	758	0
Albany Medical C.	271	22,443	13,166	0	3,324	3,788	709	1,456
Central Michigan U.	272	21,726	6,919	26	13,477	109	952	243
Tuskegee U.	273	21,355	15,424	2,676	2,724	0	0	531
U. Alaska, Anchorage	274	21,332	15,079	1,631	3,747	348	356	171
U. Nebraska, central administration	275	21,295	20,675	250	0	50	250	70
Morgan State U.	276	20,628	16,319	2,782	389	225	571	342
Oakland U.	277	20,261	7,426	1,694	8,499	1,023	1,423	196
California State U., East Bay	278	20,108	9,275	1,443	7,470	1,033	349	538
Embry-Riddle Aeronautical U.	279	19,830	14,859	103	1,365	1,195	426	1,882
U.S. Military Academy	280	19,696	13,708	0	3,980	45	268	1,695
Eastern Virginia Medical School	281	19,415	14,774	176	2,384	1,298	783	0
U. Nebraska, Omaha	282	19,006	13,503	1,855	3,125	201	177	145
Kennesaw State U.	283	18,880	3,104	619	13,722	318	1,032	85
New York Medical C.	284	18,872	10,739	1,098	794	4,002	1,503	736
Bowling Green State U.	285	18,619	7,263	1,333	9,178	84	754	7
East Tennessee State U.	286	18,449	8,358	20	4,902	134	4,785	250
U. Puerto Rico, Mayaguez	287	18,368	13,073	33	5,148	37	0	77
Southern Illinois U., Edwardsville	288	18,044	3,844	71	13,848	221	22	38
U. Colorado Denver <sup>C</sup>	289	18,039	11,866	3,047	804	493	1,671	158
Tarleton State U.	290	17,729	4,620	3,749	8,949	263	148	0
U. Guam	291	17,666	14,316	1,705	1,465	24	156	0
Prairie View A&M U.	292	17,582	9,566	4,041	3,421	115	439	0
Montclair State U.	293	17,390	4,146	543	10,479	41	2,163	18
U. Akron	294	17,340	9,024	442	4,217	2,093	653	911
U. New Orleans	295	16,979	3,674	748	10,069	372	1,159	957



TABLE 22

**Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Clarkson U.	296	16,765	7,246	1,426	5,725	1,147	871	350
Fordham U.	297	16,731	4,076	25	10,871	83	1,011	665
U. North Carolina, Wilmington	298	16,656	6,852	5,748	2,150	867	951	88
California State U., Northridge	299	16,573	13,989	353	1,051	81	1,099	0
U. Tulsa	300	16,449	5,876	361	2,454	7,397	320	41
Jackson State U.	301	16,157	14,038	0	1,426	198	473	22
CUNY, Queens C.	302	16,063	12,386	1,241	1,776	149	425	86
Meharry Medical C.	303	15,840	13,784	0	565	1	1,490	0
U. North Florida	304	15,782	7,267	1,297	7,084	47	64	23
South Dakota School of Mines and Technology	305	15,746	11,587	1,345	1,944	569	76	225
CUNY, Advanced Science Research Center	306	15,403	11,840	357	1,943	251	702	310
Tennessee Technological U.	307	15,387	7,625	4,363	3,008	111	76	204
Texas Christian U.	308	15,336	4,448	438	8,684	1,670	23	73
U. of the Virgin Islands	309	15,231	13,099	1,818	17	142	155	0
California State U., Long Beach	310	15,134	11,178	877	1,113	195	528	1,243
Long Island U.	311	15,059	2,686	0	12,040	36	271	26
CUNY, Graduate School of Public Health and Health Policy	312	15,035	12,254	76	1,206	0	1,343	156
Montana Technological U.	313	14,933	6,133	5,658	2,739	402	0	1
James Madison U.	314	14,687	2,379	349	11,111	330	507	11
U. Baltimore	315	14,672	11,692	1,907	NA	0	745	328
U. Missouri, Saint Louis	316	14,632	5,812	5	5,549	96	2,804	366
New School	317	14,281	1,324	86	2,762	30	7,709	2,370
Alcorn State U.	318	14,188	7,593	4,457	2,103	6	29	0
North Carolina Central U.	319	14,105	10,676	976	NA	503	844	1,106
Humboldt State U.	320	14,103	1,975	3,971	3,818	164	2,108	2,067
Loma Linda U.	321	14,029	10,116	444	1,932	241	1,160	136
Idaho State U.	322	13,953	7,216	1,982	3,937	387	264	167
Northeast Ohio Medical U.	323	13,853	9,999	14	3,182	0	658	0
Rosalind Franklin U. of Medicine and Science	324	13,805	9,357	0	3,219	520	705	4
Western Washington U.	325	13,450	4,290	1,107	6,665	137	1,203	48
Sam Houston State U.	326	13,315	5,632	232	6,985	29	416	21
Charles R. Drew U. of Medicine and Science	327	13,228	9,945	151	2,834	0	298	0
U. Hawaii, system office	328	12,918	12,688	17	213	0	0	0

TABLE 22

## Higher education R&amp;D expenditures, ranked by all R&amp;D expenditures, by source of funds: FY 2021

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Loyola Marymount U.	329	12,819	2,170	1,393	8,148	20	1,088	0
Xavier U. Louisiana	330	12,799	11,213	709	702	0	175	0
CUNY, John Jay C. of Criminal Justice	331	11,791	3,519	3,037	2,521	37	2,597	80
Hampton U.	332	11,669	11,517	0	152	0	0	0
California State U., San Bernardino	333	11,607	5,867	2,928	2,652	20	140	0
Texas Tech U., Health Sciences Center, El Paso	334	11,360	1,831	2,829	6,064	395	241	0
U. Tennessee, Chattanooga	335	11,192	4,507	705	5,296	65	223	396
Rhode Island C.	336	10,990	4,894	5,593	64	0	439	0
Midwestern U.	337	10,961	1,506	22	9,040	178	215	0
U.S. Naval Academy	338	10,818	10,247	0	169	0	402	0
Salisbury U.	339	10,552	3,271	3,604	3,567	8	102	0
Duquesne U.	340	10,521	5,020	1,138	2,788	146	1,429	0
California State U., San Marcos	341	10,213	8,831	1,110	267	0	5	0
Virginia State U.	342	10,123	4,846	2,278	2,602	0	397	0
Missouri State U.	343	10,014	8,931	196	735	132	20	0
West Texas A&M U.	344	9,920	2,195	5,258	1,554	832	31	50
St. Edward's U.	345	9,527	7,600	800	1,030	15	31	51
California State U., Los Angeles	346	9,382	7,342	108	1,561	0	371	0
California State U., Fresno	347	9,213	4,101	1,086	2,278	186	1,232	330
Texas Southern U.	348	9,128	5,562	760	2,692	0	114	0
Alabama A&M U.	349	9,065	5,967	2,534	447	117	0	0
California State U., Fullerton	350	9,006	4,551	251	3,904	97	203	0
Bryn Mawr C.	351	8,987	1,429	0	7,285	18	255	0
Clark Atlanta U.	352	8,892	5,355	0	3,435	57	45	0
Ball State U.	353	8,826	2,469	266	5,153	702	236	0
Kentucky State U.	354	8,756	3,716	4,870	0	72	98	0
Central State U.	355	8,751	4,165	2,866	1,720	0	0	0
U. Arkansas, Pine Bluff	356	8,713	3,960	2,216	2,502	0	35	0
U. Maryland, Eastern Shore	357	8,636	8,346	153	10	19	0	108
Arkansas State U., Jonesboro	358	8,422	4,249	3,103	721	349	0	0
U. Washington, Bothell	359	8,311	2,956	86	814	0	4,386	69
Florida Gulf Coast U.	360	8,197	4,467	3,160	0	136	434	0
Winston-Salem State U.	361	8,123	4,841	1,690	NA	0	1,077	515

TABLE 22

**Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U. of the District of Columbia	362	8,104	6,851	1,253	0	0	0	0
Wesleyan U.	363	8,009	4,032	0	3,004	62	854	57
Clark U.	364	7,931	2,754	74	3,633	0	1,431	39
William Paterson U.	365	7,867	1,893	25	5,678	11	113	147
Oklahoma State U., Center for Health Sciences	366	7,758	2,304	127	5,241	56	30	0
Lincoln U., Jefferson City	367	7,621	5,621	2,000	NA	0	0	0
U. San Diego	368	7,580	2,554	26	4,203	0	414	383
U. Michigan, Dearborn	369	7,472	2,366	22	2,794	1,911	271	108
U. Hawaii, Hilo	370	7,411	5,510	53	1,260	166	421	1
U. Arkansas, Little Rock	371	7,397	6,939	79	3	139	94	143
Claremont Graduate U.	372	7,235	1,152	306	1,275	1,518	2,355	629
Eastern Michigan U.	373	7,233	2,237	185	4,618	71	119	3
U. Oklahoma, Tulsa	374	7,185	1,267	493	4,182	72	696	475
California State Polytechnic U., Pomona	375	7,011	4,396	846	1,469	141	159	0
Western Kentucky U.	376	6,944	2,348	377	4,035	105	60	19
California State U., Monterey Bay	377	6,882	3,813	1,277	1,610	3	172	7
Grand Valley State U.	378	6,809	1,415	418	3,398	0	1,023	555
Western U. of Health Sciences	379	6,688	5,620	312	124	365	260	7
DePaul U.	380	6,675	4,518	150	1,120	203	666	18
Edward Via C. of Osteopathic Medicine	381	6,629	537	0	5,879	31	182	0
West Virginia State U.	382	6,565	4,119	1,566	877	0	3	0
C. Charleston	383	6,361	4,126	304	1,458	0	377	96
Langston U.	384	6,345	3,089	2	2,645	609	0	0
CUNY, Brooklyn C.	385	6,318	4,505	64	1,242	105	339	63
California State U., Bakersfield	386	6,253	3,827	215	2,160	0	51	0
Wellesley C.	387	6,252	3,469	204	NA	138	2,024	417
U. New England	388	6,234	3,864	6	2,022	89	253	0
Philadelphia C. of Osteopathic Medicine	389	6,186	318	55	2,837	1,220	1,756	0
Indiana U. Pennsylvania	390	6,180	1,503	331	3,718	7	607	14
Southern U. and A&M C., Agricultural Research and Extension Center	391	6,164	3,588	2,556	20	0	0	0
Gallaudet U.	392	6,126	2,140	192	3,049	0	327	418
U. Central Oklahoma	393	5,997	1,516	644	3,761	73	3	0
Roseman U. of Health Sciences	394	5,985	53	0	5,775	65	1	91

TABLE 22

## Higher education R&amp;D expenditures, ranked by all R&amp;D expenditures, by source of funds: FY 2021

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Southern Connecticut State U.	395	5,750	713	90	4,245	0	473	229
Purdue U., Northwest	396	5,647	2,280	531	1,536	667	93	540
Hofstra U.	397	5,545	1,266	92	4,023	0	162	2
Naval War C.	398	5,542	5,542	0	0	0	0	0
Pennsylvania State U., Behrend	399	5,509	2,286	428	1,157	494	1,142	2
U. Southern Maine	400	5,480	2,020	2,903	301	0	190	66
Colorado C.	401	5,467	3,725	385	575	0	782	0
Yeshiva U.	402	5,452	1,509	0	2,843	0	256	844
U. Colorado Colorado Springs	403	5,338	3,942	504	338	518	36	0
Seton Hall U.	404	5,320	2,137	1,977	730	95	381	0
Azusa Pacific U.	405	5,318	212	59	4,893	2	152	0
U. of Health Sciences and Pharmacy in St. Louis	406	5,313	4,063	0	759	462	29	0
Des Moines U.	407	5,258 i	485 i	266 i	4,247 i	3 i	257 i	0 i
Hope C.	408	5,211	1,992	493	1,463	0	1,207	56
U. of St. Thomas (MN)	409	5,146	1,321	66	1,213	1,690	559	297
Rutgers, State U. New Jersey, Camden	410	5,142	2,905	16	1,423	123	612	63
Reed C.	411	5,132 i	1,916 i	32 i	2,782 i	0 i	291 i	111 i
High Tech High Graduate School of Ed.	412	5,032	0	0	0	0	5,032	0
Toyota Technological Institute, Chicago	413	4,967	3,090	0	1,602	232	43	0
Southern U. and A&M C., Baton Rouge	414	4,943	3,770	95	374	704	0	0
Texas Woman's U.	414	4,943	1,514	1,853	893	75	608	0
Williams C.	416	4,902 i	1,152 i	0 i	1,625 i	0 i	134 i	1,991 i
U. North Carolina, Asheville	417	4,844	2,322	346	440	30	1,706	0
Fort Valley State U.	418	4,842	4,429	42	371	0	0	0
Lamar U.	419	4,734	1,873	2,047	65	145	500	104
Pacific U.	420	4,690	2,072	269	1,480	100	769	0
U.S. Army War C.	421	4,662 i	4,662 i	0 i	0 i	0 i	0 i	0 i
Amherst C.	422	4,636	1,375	0	1,895	0	71	1,295
Barnard C.	423	4,632	3,527	0	718	22	365	0
Abilene Christian U.	424	4,597	827	0	199	3,546	25	0
U. Detroit Mercy	425	4,578	3,917	0	649	12	0	0
Morehouse C.	426	4,533	4,533	0	0	0	0	0
Claremont McKenna C.	427	4,515	637	0	3,548	0	330	0

TABLE 22

**Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Appalachian State U.	428	4,509	1,694	229	2,106	365	115	0
Bucknell U.	429	4,476	1,696	0	1,439	311	203	827
New York Institute of Technology	430	4,465	1,988	142	2,069	0	266	0
West Chester U. Pennsylvania	431	4,433	608	66	3,540	27	119	73
U. Wisconsin-Stevens Point	432	4,401	1,776	1,010	1,289	12	121	193
Fisk U.	433	4,320	3,940	24	0	0	356	0
Norfolk State U.	434	4,316	3,976	0	0	52	35	253
Oregon Institute of Technology	435	4,314	252	3,792	NA	94	176	0
U. Washington, Tacoma	436	4,291	3,459	349	234	0	99	150
CUNY, Graduate Center	437	4,265	2,496	128	87	0	980	574
California State U., Chico	438	4,209	2,258	792	505	69	128	457
CUNY, Lehman C.	439	4,181	3,382	0	419	171	102	107
Grinnell C.	440	4,122	344	0	3,379	0	192	207
Smith C.	441	4,085	2,433	16	1,118	74	436	8
U. New Haven	442	4,069	2,069	434	209	418	832	107
U. North Carolina, general administration	443	4,024	408	3,616	0	0	0	0
U. of the Sciences Philadelphia	444	4,005	1,320	213	1,170	1,155	147	0
U. Central Arkansas	445	3,990	1,640	869	1,281	0	200	0
Fayetteville State U.	446	3,933	1,988	519	1,238	128	60	0
South Carolina State U.	446	3,933	3,933	NA	NA	NA	NA	NA
Murray State U.	448	3,844	2,721	21	982	120	0	0
Haverford C.	449	3,835	2,455	0	631	0	308	441
U. Central del Caribe	450	3,831	2,492	223	1,050	0	0	66
Texas A&M U.-Commerce	451	3,827	1,283	76	2,300	8	141	19
Carleton C.	452	3,800	1,499	6	1,948	0	229	118
Towson U.	453	3,794	1,758	153	1,608	42	181	52
National Defense U.	454	3,786	3,786	0	0	0	0	0
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	455	3,776	376	0	3,337	0	26	37
Texas A&M International U.	456	3,740	1,243	797	965	85	628	22
Franklin and Marshall C.	457	3,722	1,363	209	1,622	279	61	188
Albany C. of Pharmacy and Health Sciences	458	3,687	1,900	0	963	715	109	0
Pace U.	459	3,649	2,536	0	819	1	293	0

TABLE 22

**Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Occidental C.	460	3,587	2,348	395	NA	392	452	0
U. Massachusetts, central office	461	3,541	342	2,417	256	1	504	21
Kean U.	462	3,538	362	318	2,783	70	5	0
Western Illinois U.	463	3,532	3,163	4	86	176	48	55
U. Texas of the Permian Basin	464	3,504	1,762	460	522	54	706	0
Touro U.	465	3,489	1,377	0	2,091	20	1	0
SUNY, C. of Optometry	466	3,460	2,105	0	437	907	10	1
Dakota State U.	467	3,416	2,603	218	376	201	0	18
Northern Kentucky U.	468	3,403	2,156	13	774	2	458	0
U. Virginia's C. Wise	469	3,310	1,307	1,267	718	0	9	9
Colgate U.	470	3,306	1,440	0	1,515	75	261	15
Swarthmore C.	471	3,296	1,414	0	1,571	1	310	0
U. Northern Iowa	472	3,259	1,995	530	654	0	80	0
Stephen F. Austin State U.	473	3,204	1,029	1,323	543	13	164	132
U. Nebraska, Kearney	474	3,201	1,327	746	1,081	37	10	0
Milwaukee School of Engineering	475	3,193	751	10	54	2,377	1	0
U. Northern Colorado	476	3,159	1,942	46	945	8	218	0
Santa Clara U.	477	3,142	1,930	118	NA	558	536	0
MGH Institute of Health Professions	478	3,037	2,500	0	30	0	507	0
U. Wisconsin-La Crosse	479	3,001	895	862	807	365	63	9
Colorado State U., Pueblo	480	2,990	1,508	1,244	201	0	0	37
Sonoma State U.	481	2,957	2,212	366	261	69	49	0
St. John's U., New York	482	2,940	1,950	0	254	200	393	143
Pennsylvania State U., Harrisburg	483	2,938	1,616	340	525	191	211	55
Middlebury C.	484	2,927	2,639	0	17	0	261	10
Saint Joseph's U.	485	2,922	1,158	673	872	134	85	0
Trinity U.	486	2,905	1,078	29	812	5	913	68
CUNY, C. Staten Island	487	2,860	2,234	165	277	0	76	108
Western Carolina U.	488	2,847	1,697	309	655	137	49	0
Northwest Indian C.	489	2,806	2,621	0	32	0	153	0
California State U., Maritime Academy	490	2,799	548	131	18	2,102	0	0
Youngstown State U.	491	2,775	2,198	206	278	77	16	0
Austin Peay State U.	492	2,740	597	1,263	859	0	12	9

TABLE 22

## Higher education R&amp;D expenditures, ranked by all R&amp;D expenditures, by source of funds: FY 2021

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Pittsburg State U.	493	2,730	759	1,001	NA	969	1	0
California State U., Dominguez Hills	494	2,690	2,001	19	670	0	0	0
Alfred U.	495	2,660	939	1,040	449	149	83	0
Christopher Newport U.	496	2,656	1,497	2	919	89	149	0
Pepperdine U.	497	2,655	835	16	1,444	0	355	5
Alabama State U.	498	2,631	2,338	0	0	287	6	0
Bates C.	499	2,620	2,079	0	188	0	165	188
U. Illinois, Springfield	500	2,612	1,071	670	839	0	32	0
U. Wisconsin-Superior	501	2,602	1,843	148	490	16	42	63
Winthrop U.	502	2,586	1,495	351	632	3	105	0
Pratt Institute	503	2,547	294	835	38	0	1,380	0
Dillard U.	504	2,528	1,257	0	1,271	0	0	0
CUNY, Baruch C.	505	2,521	1,691	0	531	0	204	95
Purdue U., Fort Wayne	506	2,495	401	513	818	141	50	572
Davidson C.	507	2,466	1,151	7	771	24	421	92
Johnson C. Smith U.	508	2,461	2,365	52	0	4	40	0
Furman U.	509	2,431	1,028	2	1,259	15	77	50
Saginaw Valley State U.	510	2,428	1,899	0	394	5	114	16
Bowdoin C.	511	2,417	1,836	6	440	0	135	0
Central Washington U.	512	2,410	1,778	185	346	55	46	0
Framingham State U.	513	2,401	188	0	0	81	2,132	0
St. Cloud State U.	514	2,379	577	429	725	403	245	0
Harvey Mudd C.	515	2,359	1,443	0	695	11	98	112
California State U., Channel Islands	516	2,341	993	611	542	186	9	0
Skidmore C.	517	2,335	1,739	0	245	0	351	0
Marymount U.	518	2,307	337	125	1,779	0	66	0
U. Richmond	519	2,294	1,534	0	370	0	390	0
Spelman C.	520	2,282	1,886	0	279	117	0	0
Lewis and Clark C.	521	2,281	702	0	1,319	0	260	0
U. Texas, Tyler	522	2,279	929	153	649	238	252	58
Keck Graduate Institute	523	2,254	1,201	0	697	144	35	177
Coastal Carolina U.	524	2,245	948	864	391	0	42	0
Palmer C. of Chiropractic, Davenport	525	2,233	1,733	0	500	0	0	0

TABLE 22

**Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U. Louisiana, Monroe	526	2,198	1,465	569	8	0	156	0
Minnesota State U., Mankato	527	2,170	575	154	1,147	0	184	110
Pomona C.	528	2,146	930	9	1,140	0	67	0
Sul Ross State U.	529	2,143 i	505 i	130 i	123 i	26 i	810 i	549 i
Grambling State U.	530	2,124	731	595	798	0	0	0
Tougaloo C.	531	2,092 i	2,092 i	0 i	0 i	0 i	0 i	0 i
California State U., Stanislaus	532	2,085	1,354	104	112	504	11	0
SUNY, Geneseo	533	2,070	1,273	10	780	0	7	0
Citadel Military C. South Carolina	534	2,054	1,714	53	174	80	27	6
Suffolk U.	535	2,043	634	0	1,261	0	148	0
U. South Carolina, Aiken	536	2,042	1,884	0	154	0	4	0
Elon U.	537	2,032	138	0	1,883	0	11	0
Mount Holyoke C.	538	2,026	1,539	0	200	0	287	0
U. of the Incarnate Word	539	1,982	1,076	0	785	83	38	0
New England C. of Optometry	540	1,978	1,623	26	149	175	5	0
SUNY, Buffalo State	541	1,962	977	682	210	24	64	5
Hobart and William Smith Colleges	542	1,941	758	662	391	0	73	57
Mercyhurst U.	543	1,937 i	745 i	584 i	608 i	0 i	0 i	0 i
Fort Lewis C.	544	1,926	1,746	14	124	42	0	0
Eastern Washington U.	545	1,921	775	965	NA	20	109	52
Northeastern Illinois U.	546	1,913	1,913	0	0	0	0	0
C. New Jersey	547	1,912	1,079	56	327	57	393	0
U. Puerto Rico, Cayey	548	1,881	1,202	0	539	11	129	0
U. Wisconsin-Green Bay	549	1,879	876	441	454	25	83	0
Manhattan C.	550	1,864	397	505	406	556	0	0
Roger Williams U.	551	1,854	1,202	34	460	11	147	0
U. Wisconsin-Eau Claire	552	1,852	909	410	308	83	139	3
Hawaii Pacific U.	553	1,849	1,741	36	36	0	36	0
U. Houston-Downtown	554	1,828	1,169	72	215	0	372	0
Willamette U.	555	1,817	896	33	761	0	127	0
Savannah State U.	556	1,804	1,804	0	0	0	0	0
Trinity C., Hartford	557	1,775	1,348	0	409	0	18	0
Lawrence Technological U.	558	1,764	284	701	2	434	343	0



TABLE 22

## Higher education R&amp;D expenditures, ranked by all R&amp;D expenditures, by source of funds: FY 2021

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Morehead State U.	559	1,754	1,727	3	12	11	1	0
Hamilton C.	560	1,747	286	0	827	0	374	260
Heidelberg U.	561	1,725	308	1,092	303	0	22	0
Erikson Institute	562	1,723	772	16	31	0	904	0
Southeastern Louisiana U.	562	1,723	795	55	663	197	13	0
Elizabeth City State U.	564	1,717	1,603	52	NA	62	0	0
U. Houston-Clear Lake	565	1,716	865	620	80	107	44	0
Colby C.	566	1,672	750	0	427	0	495	0
Monmouth U.	567	1,667	174	778	75	25	601	14
CUNY, system office	568	1,664	768	363	105	68	360	0
Northwestern State U. Louisiana	569	1,663	738	634	291	0	0	0
U. Wisconsin-Oshkosh	570	1,656	1,083	94	415	31	33	0
Eastern Connecticut State U.	571	1,646	108	9	1,529	0	0	0
Franklin W. Olin C. of Engineering	572	1,627	636	0	478	15	481	17
Vassar C.	573	1,606	918	21	455	0	209	3
U. Ana G. Mendez, Gurabo	574	1,574	926	0	648	0	0	0
Seattle U.	575	1,562	1,102	54	129	0	270	7
Troy U.	576	1,548	1,488	0	35	25	0	0
La Sierra U.	577	1,517	812	0	137	0	568	0
Calvin U.	578	1,490 i	942 i	27 i	5 i	83 i	158 i	275 i
Drake U.	579	1,488	1,016	8	157	233	74	0
U. North Georgia	580	1,415	497	3	693	1	221	0
Bowie State U.	581	1,398	1,398	0	0	0	0	0
Union C., Schenectady	582	1,396	976	0	340	7	64	9
U. San Francisco	583	1,375	255	200	466	0	434	20
U. of the Pacific	584	1,371	1,106	211	NA	11	43	0
CUNY, New York City C. of Technology	585	1,367	1,197	0	129	31	0	10
Northern Michigan U.	586	1,364	366	8	769	0	127	94
Marshall B. Ketchum U.	587	1,351 i	343 i	0 i	668 i	340 i	0 i	0 i
U. Puerto Rico, Humacao	588	1,321	1,137	0	184	0	0	0
Kettering U.	589	1,315	353	7	586	314	55	0
Central Connecticut State U.	590	1,314	663	254	390	0	7	0
Babson C.	591	1,286	0	0	566	160	293	267

TABLE 22

## Higher education R&amp;D expenditures, ranked by all R&amp;D expenditures, by source of funds: FY 2021

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Black Hills State U.	592	1,280	1,124	76	80	0	0	0
Macalester C.	592	1,280	617	4	568	0	91	0
SUNY, C. Plattsburgh	592	1,280	824	61	358	0	32	5
Florida Polytechnic U.	595	1,269	459	91	606	89	17	7
West Virginia School of Osteopathic Medicine	596	1,255	423	31	801	0	0	0
U. Hartford	597	1,252	766	0	361	5	120	0
Stockton U.	598	1,246	486	147	572	0	41	0
Connecticut C.	599	1,244	439	0	785	0	20	0
Biola U.	600	1,243 i	714 i	18 i	302 i	80 i	98 i	31 i
Doane U.	601	1,176 i	1,034 i	0 i	127 i	0 i	15 i	0 i
U. Alaska, Southeast	601	1,176	1,046	30	35	4	54	7
U. Wisconsin-Platteville	603	1,144 i	353 i	294 i	194 i	264 i	30 i	9 i
CUNY, York C.	604	1,133	922	0	168	0	43	0
New Mexico Highlands U.	605	1,129 i	1,085 i	0 i	0 i	0 i	44 i	0 i
Albion C.	606	1,127 i	289 i	0 i	838 i	0 i	0 i	0 i
Saint John's U.	607	1,125 i	0 i	0 i	1,125 i	0 i	0 i	0 i
U. of Mary Washington	608	1,123	485	100	480	2	25	31
SUNY, C. Brockport	609	1,114	500	211	268	32	74	29
Northland C.	610	1,096 i	697 i	29 i	157 i	0 i	213 i	0 i
C. Wooster	611	1,071 i	300 i	0 i	683 i	0 i	88 i	0 i
C. of Saint Benedict	612	1,064 i	46 i	0 i	1,018 i	0 i	0 i	0 i
Indiana State U.	613	1,042	582	244	135	68	13	0
Alaska Pacific U.	614	1,036	189	0	0	817	17	13
Canisius C.	614	1,036	597	0	0	0	439	0
Ithaca C.	616	1,030	685	51	224	5	35	30
Clafin U.	617	1,015	1,005	0	0	0	10	0
Lafayette C.	617	1,015	508	4	417	0	75	11
Augustana U.	619	1,013	1,013	0	0	0	0	0
SUNY, Oswego	620	1,003	415	81	439	42	14	12
U. Wisconsin-River Falls	621	999	212	588	3	141	0	55
Eastern Kentucky U.	622	986	530	76	351	0	29	0
Sacred Heart U.	623	972	675	0	244	0	53	0
Rhode Island School of Design	624	971 i	250 i	41 i	416 i	215 i	49 i	0 i

TABLE 22

**Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U. Hawaii, Maui C.	625	967	951	0	16	0	0	0
Liberty U.	626	937	120	75	657	68	17	0
Keene State C.	627	919	894	0	25	0	0	0
Indiana U., South Bend	628	898	337	0	423	0	138	0
Arcadia U.	629	889	371	289	0	0	229	0
Albany State U.	630	880	552	203	0	125	0	0
U. Minnesota, Morris	631	855	162	170	502	0	21	0
Mills C.	632	850	683	0	0	0	129	38
National U. of Natural Medicine	632	850	523	0	195	132	0	0
Fairfield U.	634	849	147	0	354	0	348	0
Fielding Graduate U.	635	843	791	0	52	0	0	0
St. Olaf C.	636	816	271	0	520	0	25	0
American Samoa Community C.	637	815	815	0	0	0	0	0
Andrews U.	638	802	256	3	441	0	102	0
Fort Hays State U.	639	800	482	37	185	48	6	42
Oberlin C.	640	776	505	0	160	67	44	0
Providence C.	641	766	574	0	124	0	68	0
U. Michigan, Flint	642	752	113	0	367	203	38	31
Wheaton C., Wheaton	643	729	148	0	327	0	254	0
Dordt U.	644	696	594	0	88	0	14	0
Niagara U.	645	509	34	78	194	0	203	0
Albizu U.	646	428	0	126	272	0	0	30
Lipscomb U.	647	321	222	0	0	22	77	0
Jacksonville State U.	648	275	245	0	30	0	0	0

i = imputed. NA = not available; data were not provided by institution.

<sup>a</sup> Johns Hopkins University includes the Applied Physics Laboratory, with \$1,949,752 thousand in total R&D expenditures in FY 2021.<sup>b</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.<sup>c</sup> The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of

Colorado Denver and Anschutz Medical Campus.

<sup>d</sup> The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

**Note(s):**

Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#). For complete rankings of all institutions in both survey populations, see [table 5](#).

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2021.

TABLE 23

## Higher education R&amp;D expenditures, ranked by all R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
All institutions	-	89,723,447	2,951,923	3,295,883	52,364,596	772,935	5,740,630	1,326,030	2,842,033	1,022,500	14,293,487	5,113,430
Johns Hopkins U. <sup>a</sup>	1	3,181,385	270,040	79,257	1,069,865	117,429	338,454	6,201	5,305	50,406	1,237,980	6,448
U. California, San Francisco	2	1,710,036	0	0	1,639,862	0	69,817	0	0	357	0	0
U. Michigan, Ann Arbor	3	1,639,645	13,922	15,080	931,174	17,937	66,041	18,255	175,698	3,628	279,682	118,228
U. Pennsylvania	4	1,631,950	27,396	1,929	1,243,966	8,637	59,246	15,250	46,021	1,172	88,937	139,396
U. Washington, Seattle	5	1,488,645	26,869	128,033	1,013,261	5,778	58,664	11,269	13,491	0	157,622	73,658
U. California, Los Angeles	6	1,454,880	16,186	41,818	1,053,540	12,110	56,624	17,464	62,413	42,390	93,906	58,429
U. California, San Diego	7	1,425,499	46,962	185,870	827,370	5,639	86,893	18,645	22,940	13,214	177,564	40,402
U. Wisconsin-Madison	8	1,380,075	23,678	65,814	861,558	6,394	87,587	10,944	63,043	44,157	131,709	85,191
Stanford U.	9	1,274,483	23,232	21,216	905,150	6,070	98,672	16,587	22,559	272	136,251	44,474
Harvard U.	10	1,254,008	20,858	38,756	714,069	19,503	109,606	4,200	136,543	8,608	92,782	109,083
Duke U.	11	1,237,686	5,273	7,310	1,040,786	8,922	22,131	6,923	36,432	23	94,483	15,403
Ohio State U.	12	1,236,111	16,691	7,979	876,239	4,793	40,010	8,139	17,017	42,228	163,509	59,506
U. North Carolina, Chapel Hill	13	1,205,883	32,344	16,879	925,380	5,489	38,809	43,348	67,325	15	30,935	45,359
Cornell U.	14	1,183,524	28,125	6,589	833,824	2,467	120,151	11,273	22,269	0	118,621	40,205
Yale U.	15	1,165,148	7,379	7,021	1,012,626	3,589	56,847	10,453	14,055	29	35,778	17,371
Texas A&M U., College Station and Health Science Center	16	1,147,720	19,178	106,932	487,219	6,729	56,029	6,546	28,965	10,943	385,656	39,523
U. Maryland <sup>b</sup>	17	1,142,264	50,483	61,660	633,517	3,760	101,322	8,600	58,423	15,701	154,163	54,635
U. Pittsburgh, Pittsburgh	18	1,135,416	10,455	9,952	983,251	2,891	27,919	16,966	4,070	12,637	56,681	10,594
U. Texas M. D. Anderson Cancer Center	19	1,124,971	0	0	1,056,727	18,914	17,572	17,939	13,819	0	0	0
Georgia Institute of Technology	20	1,114,481	146,318	13,998	32,997	8,614	33,914	3,782	7,467	0	839,071	28,320
Columbia U. in the City of New York	21	1,098,570	27,763	77,515	797,089	2,951	46,386	4,637	11,332	0	75,457	55,440
U. Minnesota, Twin Cities	22	1,072,961	22,629	13,634	760,975	8,555	41,812	29,408	33,248	2,845	121,637	38,218

TABLE 23

**Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
New York U.	23	1,063,704	15,246	436	771,663	16,998	26,417	27,209	29,601	17	99,307	76,810
Vanderbilt U. and Vanderbilt U. Medical Center	24	1,019,273	18,226	1,861	806,323	1,317	30,077	15,687	8,539	0	86,541	50,702
Washington U., Saint Louis	25	989,214	4,575	6,083	887,653	840	24,320	6,121	1,374	3,116	26,574	28,558
Pennsylvania State U., University Park and Hershey Medical Center	26	970,544	73,737	31,930	291,733	14,090	89,035	29,685	27,130	0	378,667	34,537
U. Florida	27	959,965	15,238	16,189	706,987	1,757	28,005	12,597	16,015	12	122,704	40,461
U. Southern California	28	955,565	115,694	14,323	598,925	1,472	21,413	9,837	75,520	162	78,179	40,040
Massachusetts Institute of Technology	29	949,076	116,877	30,961	118,283	9,015	170,494	478	47,850	19,812	382,569	52,737
Northwestern U.	30	913,178	8,957	1,342	659,195	1,490	83,618	3,352	21,988	27,424	80,735	25,077
Emory U.	31	852,922	2,841	2,217	789,831	1,693	25,676	5,215	3,979	0	11,488	9,982
U. California, Berkeley	32	846,872	9,583	7,857	264,394	8,067	156,896	16,892	56,908	74,539	199,711	52,025
Icahn School of Medicine at Mount Sinai	33	820,260	0	0	820,260	0	0	0	0	0	0	0
U. California, Davis	34	817,409	5,934	30,603	590,027	4,698	27,906	3,177	30,951	9,720	102,370	12,023
U. Texas, Austin	35	779,348	87,595	54,009	148,471	17,349	85,250	10,293	23,660	2,806	279,730	70,185
U. Arizona	36	770,031	16,503	32,088	447,584	3,347	140,655	4,255	18,628	6,158	72,158	28,655
U. Illinois, Urbana-Champaign	37	731,268	99,600	5,521	258,253	3,612	78,698	15,063	5,604	13,335	216,233	35,349
Baylor C. of Medicine	38	716,976	0	0	716,976	0	0	0	0	0	0	0
Michigan State U.	39	710,178	15,996	5,695	317,235	11,152	167,520	13,042	45,620	17,284	79,360	37,274
Indiana U., Bloomington	40	695,258	38,843	7,960	501,125	1,678	30,322	13,211	40,800	12,122	13,012	36,185
Purdue U., West Lafayette	41	679,482	22,324	7,578	237,182	2,742	42,663	8,342	14,611	2,619	285,469	55,952
Arizona State U.	42	677,303	22,498	68,116	111,790	4,121	26,742	14,623	73,205	128,982	145,574	81,652
Boston U.	43	652,096	14,542	7,876	445,535	5,039	35,094	22,092	9,041	6,515	79,757	26,605
U. Alabama, Birmingham	44	644,330	1,356	436	571,525	383	9,885	5,695	317	10	46,844	7,879

TABLE 23

## Higher education R&amp;D expenditures, ranked by all R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Rutgers, State U. New Jersey, New Brunswick	45	643,955	6,316	24,326	483,265	9,673	23,111	6,145	7,351	3,804	51,289	28,675
U. Texas Southwestern Medical Center	46	632,134	0	0	632,134	0	0	0	0	0	0	0
U. Utah	47	624,737	33,446	47,024	420,965	3,708	30,441	7,255	6,254	0	48,225	27,419
U. Virginia, Charlottesville	48	611,313	24,669	5,356	402,376	1,710	27,304	7,565	18,063	2,389	62,271	59,610
U. Colorado Anschutz Medical Campus <sup>c</sup>	49	562,855	0	212	559,348	0	391	20	352	0	1,204	1,328
U. Iowa	50	553,876	4,180	1,971	415,734	406	32,013	10,981	6,010	3,124	47,722	31,735
U. Cincinnati	51	551,826	3,614	913	456,847	1,320	9,189	4,278	11,451	898	42,434	20,882
U. Colorado Boulder	52	547,724	16,468	118,876	53,211	2,857	120,677	13,610	14,018	1,724	177,604	28,679
North Carolina State U.	53	547,118	17,016	25,579	237,289	20,392	28,455	2,523	10,768	14,385	172,900	17,811
Virginia Polytechnic Institute and State U.	54	542,045	25,466	3,534	207,204	8,107	24,374	4,169	11,574	89	246,965	10,563
U. California, Irvine	55	523,752	23,444	13,034	315,900	6,314	38,794	10,898	12,606	1,036	65,454	36,272
U. Chicago	56	497,651	26,205	8,854	336,114	4,653	55,032	6,041	22,088	0	30,018	8,646
U. Georgia	57	493,944	4,121	17,846	309,153	5,845	10,896	27,865	28,411	4,995	20,289	64,523
Scripps Research Institute	58	485,435	0	0	485,435	0	0	0	0	0	0	0
SUNY, Polytechnic Institute	59	465,273	0	0	2,587	0	0	0	0	0	462,562	124
Oregon Health and Science U.	60	452,812	0	0	439,212	0	0	60	0	0	13,526	14
Colorado State U., Fort Collins	61	447,197	3,621	60,073	288,731	2,980	12,947	3,755	11,988	6,461	41,575	15,066
California Institute of Technology	62	438,624	13,508	43,295	100,754	1,039	212,265	0	0	0	51,630	16,133
U. Illinois, Chicago	63	429,585	12,103	943	324,053	4,021	17,718	2,928	8,351	6,112	35,675	17,681
U. Kentucky	64	429,241	4,011	3,356	323,030	1,512	8,722	4,185	4,075	17,548	52,361	10,441
SUNY, U. Buffalo	65	425,349	17,679	4,912	254,314	1,730	13,431	5,677	8,687	642	100,194	18,083
Case Western Reserve U.	66	421,868	2,407	536	360,294	697	9,007	1,654	5,880	379	39,079	1,935
U. Rochester	67	409,255	3,608	2,536	271,630	214	99,556	5,135	343	7,256	16,780	2,197

TABLE 23

## Higher education R&amp;D expenditures, ranked by all R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. South Florida <sup>d</sup>	68	405,088	11,614	19,373	203,414	3,055	9,900	6,927	33,907	1,299	50,547	65,052
Princeton U.	69	404,448	23,518	29,203	95,938	11,672	99,326	5,441	57,323	0	67,231	14,796
Carnegie Mellon U.	70	402,376	196,380	364	14,273	12,464	21,109	10,631	12,392	6,330	112,597	15,836
U. Missouri, Columbia	71	388,779	6,866	1,249	237,728	1,377	8,722	5,836	6,665	29,372	56,685	34,279
U. Kansas	72	385,637	3,652	11,923	230,059	543	15,492	11,469	1,918	8,381	21,363	80,837
Uniformed Services U. of the Health Sciences	73	384,490	0	0	366,610	0	0	17,880	0	0	0	0
U. Oklahoma, Norman and Health Science Center	74	380,048	4,661	91,101	165,745	2,274	16,497	2,599	11,396	0	39,785	45,990
U. Miami	75	375,841	835	50,826	297,764	843	5,000	14,808	463	64	4,527	711
Virginia Commonwealth U.	76	364,096	6,270	278	233,486	698	3,396	10,533	4,959	0	32,233	72,243
Iowa State U.	77	360,275	5,844	5,650	142,283	16,101	26,696	3,595	10,196	878	123,428	25,604
Washington State U.	78	357,648	8,393	8,946	211,107	535	26,256	5,000	15,147	1,216	48,031	33,017
Rockefeller U.	79	357,543	8,886	660	339,729	1,433	6,835	0	0	0	0	0
U. Massachusetts, Medical School	80	347,337	0	0	347,337	0	0	0	0	0	0	0
U. New Mexico	81	332,566	3,657	6,727	243,730	1,229	7,087	6,321	10,544	6,770	41,317	5,184
Dartmouth C. and Dartmouth Hitchcock Medical Center	82	330,226	18,556	4,607	163,702	6,932	26,312	11,670	23,175	4,466	33,559	37,247
Florida State U.	83	328,604	10,320	16,252	61,377	6,567	63,481	16,829	18,501	5,435	52,153	77,689
Utah State U.	84	325,223	3,039	2,146	56,043	720	5,111	5,331	2,417	0	247,332	3,084
U. Tennessee, Knoxville	85	316,273	11,725	5,062	86,080	2,938	20,809	4,744	10,596	16,841	128,579	28,899
U. Texas Health Science Center, Houston	86	308,823	0	0	308,823	0	0	0	0	0	0	0
U. Nebraska, Lincoln	87	307,083	9,353	2,028	153,809	4,556	25,194	12,502	11,493	2,521	51,287	34,340
U. Connecticut	88	302,329	5,294	10,483	175,232	2,119	17,682	22,130	6,705	2,260	54,185	6,239
Albert Einstein C. of Medicine	89	301,715	0	0	301,715	0	0	0	0	0	0	0
Temple U.	90	299,778	6,327	2,108	223,136	2,547	17,979	11,427	7,649	548	8,279	19,778



TABLE 23

## Higher education R&amp;D expenditures, ranked by all R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Louisiana State U., Baton Rouge	91	296,673	15,399	28,763	158,608	2,077	23,438	750	4,537	10,831	39,104	13,166
Georgetown U.	92	279,932	19,590	0	183,629	2,606	10,525	949	32,030	0	0	30,603
Medical U. South Carolina	93	277,761	0	0	277,761	0	0	0	0	0	0	0
Oregon State U.	94	276,955	7,241	43,111	151,779	1,247	4,727	1,035	5,713	3,634	52,731	5,737
Medical C. Wisconsin	95	276,850	0	0	269,290	0	0	0	0	0	7,560	0
Brown U.	96	276,331	14,984	7,954	139,126	10,903	17,072	8,598	32,799	9,115	23,587	12,193
Mississippi State U.	97	275,143	5,546	15,520	127,096	1,880	10,755	1,836	25,601	2,206	67,472	17,231
SUNY, Stony Brook U.	98	274,516	12,621	26,694	127,257	7,407	43,101	5,557	2,776	16,646	28,344	4,113
U. Hawaii, Manoa	99	271,768	11,590	73,176	123,962	439	26,381	414	3,481	5,283	23,966	3,076
Auburn U., Auburn	100	266,374	5,127	4,008	111,491	3,471	15,214	3,137	6,228	1,998	78,720	36,980
George Washington U.	101	266,108	7,326	175	180,965	725	7,033	3,071	23,621	2,836	22,749	17,607
Wake Forest U.	102	264,216	266	0	253,797	161	2,236	812	689	0	1,204	5,051
Woods Hole Oceanographic Institution	103	262,048	0	160,059	0	0	0	0	0	0	101,989	0
U. California, Santa Barbara	104	248,961	11,503	37,222	29,848	1,416	54,435	3,457	8,231	385	86,303	16,161
Florida International U.	105	246,075	16,708	16,584	55,462	1,915	27,997	34,345	19,172	1,950	41,740	30,202
U. Notre Dame	106	240,324	13,961	0	29,599	4,751	47,332	4,454	10,334	13,385	90,572	25,936
Clemson U.	107	237,485	7,040	0	66,524	1,870	10,139	1,587	6,298	0	90,038	53,989
Wayne State U.	108	235,519	2,158	288	175,847	1,093	19,885	2,542	3,585	5,621	11,675	12,825
U. Delaware	109	231,532	4,182	18,173	60,823	1,384	26,015	7,990	13,326	2,435	90,327	6,877
Tufts U.	110	224,956	1,045	377	149,664	7,181	9,212	5,486	15,859	8,188	24,017	3,927
U. Texas Health Science Center, San Antonio	111	219,734	0	0	219,734	0	0	0	0	0	0	0
U. Central Florida	112	218,596	32,242	3,951	30,876	3,269	37,144	9,231	6,935	893	57,620	36,435
U. South Carolina, Columbia	113	215,374	3,311	9,609	84,069	1,558	6,928	8,759	17,831	154	36,223	46,932
George Mason U.	114	214,207	24,420	12,577	47,800	2,493	4,786	3,029	48,250	24	49,826	21,002
U. Massachusetts, Amherst	115	213,824	27,336	3,582	69,519	3,218	22,250	8,004	5,623	1,590	60,065	12,637

TABLE 23

**Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Northeastern U.	116	211,342	21,505	4,044	32,513	1,210	24,279	9,695	13,062	0	92,723	12,311
Rice U.	117	207,404	11,623	4,786	15,766	7,349	33,015	5,772	21,092	528	100,872	6,601
Georgia State U.	118	206,472	4,896	1,500	65,536	2,091	17,588	9,692	33,767	0	0	71,402
Tulane U.	119	205,206	1,873	4,217	164,874	518	5,018	1,771	6,935	0	6,662	13,338
Kansas State U.	120	203,846	3,898	1,130	119,328	2,708	12,736	4,287	9,633	8,736	27,743	13,647
U. Houston	121	202,536	4,352	9,292	34,322	3,497	52,230	13,601	2,404	1,590	56,555	24,693
U. Nebraska, Medical Center	122	200,974	0	0	200,974	0	0	0	0	0	0	0
Thomas Jefferson U.	123	200,393	0	0	200,309	0	0	0	0	0	55	29
U. Louisville	124	200,362	71	185	157,735	697	3,254	1,757	1,330	1,778	20,965	12,590
West Virginia U.	125	199,907	2,179	3,965	124,894	579	12,431	2,304	3,681	1,063	39,855	8,956
Oklahoma State U., Stillwater	126	198,799	3,636	3,119	77,720	4,276	8,824	6,926	5,445	6,896	35,094	46,863
Texas Tech U.	127	197,739	4,274	9,282	55,930	3,678	15,784	8,762	11,235	0	41,962	46,832
U. Vermont	128	195,320	2,978	3,237	142,622	3,153	4,354	3,694	6,052	4,303	11,914	13,013
U. Arkansas for Medical Sciences	129	194,709	0	0	194,709	0	0	0	0	0	0	0
Montana State U., Bozeman	130	193,577	2,625	5,468	74,897	2,527	23,329	415	2,194	11,499	51,785	18,838
Wichita State U.	131	192,042	0	320	14,196	419	1,438	478	380	0	157,430	17,381
U. Dayton	132	191,228	7,528	465	544	3	910	118	15	0	180,158	1,487
U. California, Riverside	133	189,600	8,295	10,303	98,539	1,994	17,559	3,791	5,224	2,821	34,888	6,186
U. Texas Medical Branch	134	185,759	0	0	184,500	0	0	0	0	0	1,259	0
U. Louisiana, Lafayette	135	181,400	16,823	6,277	80,528	3,119	6,453	151	3,919	1,184	30,295	32,651
U. Nevada, Reno	136	175,386	6,843	19,030	78,218	1,777	8,025	6,422	7,637	2,845	27,769	16,820
U. Alaska, Fairbanks	137	172,957	1,116	95,711	37,477	191	16,441	0	1,248	1,425	17,314	2,034
U. New Hampshire	138	167,373	1,057	55,523	52,907	1,239	4,957	1,279	13,329	0	22,509	14,573
New Jersey Institute of Technology	139	166,587	11,575	0	22,393	4,949	15,415	0	6,602	16	82,240	23,397
U. Arkansas, Fayetteville	140	164,443	5,882	5,686	79,509	60	8,111	994	4,212	0	37,818	22,171
North Dakota State U.	141	164,050	2,929	680	106,163	1,501	10,077	2,283	6,686	5,701	13,963	14,067

TABLE 23

## Higher education R&amp;D expenditures, ranked by all R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. California, Santa Cruz	142	160,615	5,128	31,217	28,302	156	35,606	868	5,411	575	49,576	3,776
Drexel U.	143	152,752	5,655	0	96,668	620	2,074	2,435	2,271	1,714	32,665	8,650
Syracuse U.	144	151,717	5,582	3,005	10,916	2,572	13,926	3,916	14,920	145	24,698	72,037
U. Alabama, Huntsville	145	149,792	48,967	17,960	2,620	709	15,071	233	820	0	55,510	7,902
U. Maine	146	146,801	2,585	24,778	38,598	657	6,803	1,108	2,316	12,888	46,986	10,082
U. Texas, San Antonio	147	145,362	19,203	3,429	26,419	1,554	11,547	2,835	9,393	2,153	21,499	47,330
U. North Dakota	148	143,506	1,856	6,234	31,330	372	2,964	1,713	1,577	317	86,578	10,565
U. Oregon	149	139,193	6,362	6,060	56,791	694	13,881	19,455	3,797	1,950	0	30,203
U. Alabama, Tuscaloosa	150	129,509	12,797	4,302	14,565	1,174	7,991	5,384	9,556	0	43,941	29,799
U. Rhode Island	151	129,296	439	52,469	28,984	5	3,328	3,222	1,417	19,636	10,766	9,030
U. Texas, Arlington	152	126,477	6,865	867	19,246	2,350	16,864	1,568	79	0	58,154	20,484
SUNY, Binghamton U.	153	124,565	8,490	1,636	12,788	3,133	14,568	10,640	19,706	0	39,529	14,075
U. Texas, Dallas	154	122,825	8,945	598	27,495	1,363	16,444	4,130	2,666	672	50,646	9,866
U. Montana, Missoula	155	121,571	2,207	6,212	72,501	878	8,615	933	20,948	0	0	9,277
Rensselaer Polytechnic Institute	156	119,056	13,145	1,868	6,913	2,944	12,251	4,036	1,535	78	67,810	8,476
Augusta U.	157	116,480	141	0	115,862	44	172	155	41	0	0	65
U. Mississippi	158	116,175	273	1,306	82,916	358	10,803	889	1,777	174	6,033	11,646
Cold Spring Harbor Laboratory	159	114,903	0	0	114,885	0	0	0	0	0	0	18
SUNY, U. Albany	160	114,501	5,230	15,605	52,135	1,400	6,791	3,748	12,288	23	3,133	14,148
New Mexico State U.	161	110,580	4,043	5,067	48,808	116	20,108	422	570	502	29,884	1,060
U. Tennessee, Health Science Center	162	109,562	0	0	107,620	0	0	0	0	1,255	687	0
U. Texas, El Paso	163	109,410	6,234	3,757	23,452	2,412	9,092	4,407	4,964	5,975	26,599	22,518
San Diego State U.	164	107,681	1,439	2,158	31,479	3,883	6,681	18,729	4,876	6,322	10,715	21,399
Brandeis U.	165	107,549	3,187	0	27,969	1,880	15,157	4,423	34,261	0	4,055	16,617
Rush U.	166	107,398	0	0	104,999	0	0	2,399	0	0	0	0
U. Idaho	167	105,895	2,184	4,803	73,435	194	1,646	189	4,453	2,788	12,944	3,259
U. Nevada, Las Vegas	168	101,009	1,015	6,082	32,306	2,624	10,589	3,738	6,536	558	10,667	26,894

TABLE 23

**Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Massachusetts, Lowell	169	94,708	7,420	2,614	12,821	754	18,308	1,743	6,915	397	36,339	7,397
U. Wyoming	170	93,202	1,580	11,251	43,538	1,306	1,808	412	1,086	6,574	24,675	972
U. Maryland, Baltimore County	171	84,418	12,102	15,087	10,033	428	19,202	1,491	14,413	2,234	6,668	2,760
Michigan Technological U.	172	81,715	4,582	16,272	2,621	1,942	4,085	546	1,279	447	46,733	3,208
Colorado School of Mines	173	81,443	3,894	5,713	3,081	682	10,812	0	1,220	0	54,062	1,979
U. North Texas, Denton	174	81,252	7,269	1,879	13,582	237	8,710	2,719	4,057	0	18,285	24,514
Saint Louis U.	175	79,005	1,345	2,264	65,928	190	2,131	233	1,380	0	1,999	3,535
Texas State U.	176	72,510	1,200	7,338	11,708	1,057	3,421	272	4,437	1,759	9,321	31,997
Cleveland State U.	177	71,451	0	0	45,321	642	976	762	5,902	0	12,371	5,477
Northern Arizona U.	178	69,129	4,037	6,790	41,082	0	8,120	396	167	469	6,497	1,571
William & Mary	179	68,801	2,575	34,838	2,669	371	5,985	367	9,878	1,380	0	10,738
U. Southern Mississippi	180	67,417	232	26,110	11,218	0	14,672	118	2,134	0	5,963	6,970
U. Memphis	181	67,092	7,957	4,089	9,537	1,250	3,372	5,431	7,319	1,702	9,464	16,971
American U.	182	65,912	649	1,035	1,148	1,538	4,404	1,063	16,428	3,243	0	36,404
Van Andel Research Institute	183	65,789	0	0	65,789	0	0	0	0	0	0	0
Indiana U.-Purdue U., Indianapolis	184	65,330	4,643	938	22,890	404	2,748	4,030	11,605	4,993	6,604	6,475
Boston C.	185	65,156	663	7,414	9,313	1,079	11,863	4,588	10,756	0	50	19,430
Naval Postgraduate School	186	65,101	6,058	6,591	1,537	2,435	5,927	151	6,669	4,618	24,254	6,861
U. Massachusetts, Boston	187	63,723	2,709	2,960	8,612	486	4,174	4,292	12,178	444	1,266	26,602
Old Dominion U.	188	62,332	2,693	3,775	15,041	1,097	7,021	1,381	1,659	0	25,811	3,854
San Jose State U.	189	60,100	297	14,857	3,655	751	3,437	18,930	2,940	0	3,664	11,569
Florida Atlantic U.	190	58,471	2,479	2,013	27,748	1,026	2,726	1,771	153	0	17,064	3,491
U. Texas Rio Grande Valley	191	58,187	1,581	1,649	28,556	2,194	4,338	1,181	3,534	63	5,354	9,737
CUNY, City C.	192	57,361	778	1,600	9,192	158	8,709	15	16	0	34,710	2,183

TABLE 23

**Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Rochester Institute of Technology	193	56,043	8,809	0	1,551	2,178	12,388	110	2,603	0	20,874	7,530
U. Wisconsin-Milwaukee	194	55,664	193	7,385	9,109	707	10,970	3,800	6,531	2,309	8,577	6,083
Missouri U. of Science and Technology	195	54,437	2,545	0	555	252	4,478	134	69	166	43,470	2,768
U. Toledo	196	53,169	0	5,309	25,012	3	10,594	365	47	0	10,299	1,540
Howard U.	197	52,412	1,747	289	30,787	198	5,720	2,214	952	0	9,535	970
Mercer U.	198	51,989	140	0	8,627	219	1,878	270	105	217	40,439	94
U. North Carolina, Charlotte	199	51,877	18,214	1,054	4,701	782	3,367	750	2,947	0	15,643	4,419
East Carolina U.	200	51,662	603	4,564	28,703	7	1,814	974	2,319	0	3,069	9,609
South Dakota State U.	201	51,542	32	801	38,411	433	1,943	600	1,772	0	7,161	389
U. Maryland Center for Environmental Science	202	51,201	40	40,621	8,729	15	519	0	326	0	72	879
U. California, Office of the President	203	50,848	0	0	42,520	0	7,905	0	0	37	0	386
U. North Texas, Health Science Center	204	50,698	0	0	50,692	0	0	0	6	0	0	0
Kent State U.	205	50,408	1,509	1,038	9,034	1,385	9,048	4,536	4,930	828	3,732	14,368
Ohio U.	206	49,764	271	2,183	16,838	53	5,520	1,792	897	0	16,645	5,565
Baylor U.	207	48,809	1,148	2,731	11,299	877	8,289	3,692	1,420	5,390	7,241	6,722
Worcester Polytechnic Institute	208	48,702	10,707	0	2,188	1,880	3,852	0	1,515	0	27,108	1,452
U. South Alabama	209	47,610	3,722	4,466	31,362	163	626	561	515	0	5,085	1,110
Southern Illinois U., Carbondale	210	47,210	566	1,643	37,448	14	2,052	381	996	990	3,120	0
Florida A&M U.	211	47,124	16	5,633	23,507	4	1,346	212	5	0	5,222	11,179
Boise State U.	212	46,065	1,686	3,129	12,908	1,475	5,881	127	2,554	489	14,918	2,898
U. California, Merced	213	45,964	1,134	3,849	9,742	2,139	5,753	424	1,816	1,156	13,854	6,097
Air Force Institute of Technology	214	45,703	1,921	175	0	828	15,999	0	0	0	26,780	0
SUNY, Upstate Medical U.	215	44,870	0	0	44,870	0	0	0	0	0	0	0

TABLE 23

## Higher education R&amp;D expenditures, ranked by all R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Louisiana State U., Health Sciences Center, New Orleans	216	44,370	0	0	44,370	0	0	0	0	0	0	0
U. Puerto Rico, Medical Sciences Campus	217	44,111	0	265	43,846	0	0	0	0	0	0	0
Loyola U., Chicago	218	44,036	216	0	38,592	81	1,026	1,288	1,139	0	0	1,694
Brigham Young U., Provo	219	43,916	929	853	9,660	483	6,357	382	927	0	20,162	4,163
Stevens Institute of Technology	220	43,386	4,984	0	94	56	2,066	0	0	130	33,983	2,073
Southern Methodist U.	221	41,960	205	5,367	2,221	1,736	4,598	1,273	529	97	9,972	15,962
Texas Tech U., Health Sciences Center	222	41,583	0	0	40,567	0	0	0	0	0	0	1,016
Portland State U.	223	41,311	1,644	1,818	13,784	947	1,977	1,257	4,338	663	6,668	8,215
Lehigh U.	224	41,279	2,514	1,087	5,271	140	3,642	398	212	19	25,835	2,161
North Carolina Agricultural and Technical State U.	225	40,751	1,227	0	20,086	797	1,158	236	69	0	11,616	5,562
U. Denver	226	38,751	22	52	5,347	80	3,977	6,659	1,678	0	3,558	17,378
Georgia Southern U.	227	37,201	1,045	890	7,662	1,405	5,400	1,069	3,743	26	4,052	11,909
Marquette U.	228	37,087	1,439	0	12,236	1,110	3,903	1,223	431	0	9,027	7,718
U. North Carolina, Greensboro	229	37,033	806	0	8,934	308	4,250	3,539	1,155	0	0	18,041
U. West Florida	230	36,837	2,510	18	2,192	81	1,356	424	3,779	0	709	25,768
San Francisco State U.	231	35,768	1,579	3,975	13,143	1,326	3,418	1,617	3,892	1,546	2,386	2,886
Catholic U. of America	232	35,548	50	0	1,649	53	19,708	520	651	0	3,926	8,991
SUNY, Downstate Health Sciences U.	233	34,459	0	0	34,459	0	0	0	0	0	0	0
U. Missouri, Kansas City	234	33,855	1,698	190	17,966	3	1,451	646	180	448	9,174	2,099
CUNY, Hunter C.	235	33,816	1,395	1,010	7,852	217	5,489	12,382	2,509	0	0	2,962
Morehouse School of Medicine	236	32,637	0	0	32,637	0	0	0	0	0	0	0
U.S. Air Force Academy	237	32,086	150	34	369	0	2,398	0	3	0	29,132	0

TABLE 23

## Higher education R&amp;D expenditures, ranked by all R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Texas A&M U.-Corpus Christi	238	30,500	313	12,296	5,422	6	1,089	0	464	890	6,590	3,430
Illinois Institute of Technology	239	29,698	2,647	224	9,053	381	3,483	0	13	4	13,737	156
U. Puerto Rico, Rio Piedras	240	28,896	604	3,409	4,283	178	4,886	7	1,185	4,093	1,152	9,099
New Mexico Institute of Mining and Technology	241	28,745	6,732	7,309	290	3	1,151	0	0	0	13,002	258
U. Massachusetts, Dartmouth	242	28,729	1,718	12,196	1,834	1,497	2,650	0	42	0	8,049	743
SUNY, C. of Environmental Science and Forestry	243	28,440	190	995	23,850	0	404	1,531	22	68	1,085	295
U. Texas Health Science Center, Tyler	244	27,928	0	0	27,928	0	0	0	0	0	0	0
U. South Dakota	245	27,537	174	0	15,920	189	3,713	1,150	316	0	1,429	4,646
Louisiana Tech U.	246	27,417	1,952	236	2,242	999	2,342	616	1,136	0	11,257	6,637
Tennessee State U.	247	26,880	454	314	21,260	116	435	259	509	0	3,062	471
Rowan U.	248	26,458	588	397	10,849	225	1,524	739	65	129	11,570	372
Desert Research Institute	249	26,365	0	22,791	3,574	0	0	0	0	0	0	0
Wright State U.	250	26,259	3,531	163	11,213	90	1,465	1,194	0	67	8,129	407
California Polytechnic State U., San Luis Obispo	251	25,953	679	1,106	6,526	2,668	4,953	157	930	0	5,522	3,412
Chapman U.	252	25,820	701	304	9,497	16	1,314	1,161	3,253	0	348	9,226
Western Michigan U. and Homer Stryker M.D. School of Medicine	253	25,314	169	1,660	5,982	21	1,148	302	245	87	8,058	7,642
Northern Illinois U.	254	25,261	944	803	3,011	40	5,454	947	4,024	0	4,134	5,904
Miami U.	255	25,138	564	1,071	9,733	427	3,940	1,510	1,444	0	4,356	2,093
Villanova U.	256	24,723	413	443	3,610	116	3,095	900	433	703	9,484	5,526

TABLE 23

## Higher education R&amp;D expenditures, ranked by all R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Louisiana State U., Health Sciences Center, Shreveport	257	24,600	0	0	24,600	0	0	0	0	0	0	0
Nova Southeastern U.	258	24,513	32	10,973	12,827	0	0	353	0	0	0	328
Teachers C., Columbia U.	259	24,335	2,913	0	5,040	0	0	878	15,472	0	0	32
Illinois State U.	260	24,152	168	591	4,364	215	1,171	50	1,105	0	0	16,488
Rutgers, State U. New Jersey, Newark	261	23,854	2,013	1,873	11,845	0	2,667	1,139	672	43	0	3,602
U. Minnesota, Duluth	262	23,767	242	451	19,119	274	624	20	154	0	2,392	491
California State U., Sacramento	263	23,699	340	752	1,446	116	238	330	6,544	4,320	5,986	3,627
Marshall U.	264	23,620	79	404	18,296	0	295	3	3	0	2,475	2,065
Texas A&M U.-Kingsville	265	23,578	12	0	16,283	0	213	51	0	99	4,622	2,298
Ponce Health Sciences U.	266	23,297	0	0	22,009	0	0	1,288	0	0	0	0
Creighton U.	267	23,251	928	0	17,512	239	1,621	279	1,068	0	0	1,604
Florida Institute of Technology	268	23,195	5,643	3,254	2,175	286	3,547	1,371	0	71	5,891	957
Delaware State U.	269	23,193	334	377	14,196	3	2,304	1,144	528	0	308	3,999
Middle Tennessee State U.	270	22,531	1,000	126	4,048	1,187	2,967	652	3,668	0	592	8,291
Albany Medical C.	271	22,443	0	0	22,443	0	0	0	0	0	0	0
Central Michigan U.	272	21,726	87	557	14,879	141	1,891	486	152	1,785	412	1,336
Tuskegee U.	273	21,355	463	0	8,136	1,146	169	0	5,828	85	5,528	0
U. Alaska, Anchorage	274	21,332	166	5,735	8,381	0	1,160	277	3,020	177	1,674	742
U. Nebraska, central administration	275	21,295	448	0	12,423	0	0	0	0	0	8,060	364
Morgan State U.	276	20,628	660	3,298	5,810	146	774	9	160	0	8,031	1,740
Oakland U.	277	20,261	1,150	0	7,887	55	5,596	377	161	0	4,437	598
California State U., East Bay	278	20,108	264	1,493	1,762	482	2,441	465	3,331	29	1,024	8,817



TABLE 23

## Higher education R&amp;D expenditures, ranked by all R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Embry-Riddle Aeronautical U.	279	19,830	2,136	1,200	0	110	3,853	0	476	0	11,279	776
U.S. Military Academy	280	19,696	2,305	2	2,642	1,259	338	387	4,179	156	7,772	656
Eastern Virginia Medical School	281	19,415	0	0	19,415	0	0	0	0	0	0	0
U. Nebraska, Omaha	282	19,006	2,588	34	7,208	468	76	456	2,324	3,349	1,051	1,452
Kennesaw State U.	283	18,880	3,745	0	3,073	287	1,133	231	2,554	1,280	1,858	4,719
New York Medical C.	284	18,872	0	0	18,872	0	0	0	0	0	0	0
Bowling Green State U.	285	18,619	192	1,875	3,158	160	2,345	979	3,631	20	57	6,202
East Tennessee State U.	286	18,449	4 i	26 i	13,835 i	50 i	240 i	3,057 i	46 i	0 i	138 i	1,053 i
U. Puerto Rico, Mayaguez	287	18,368	0	2,014	1,729	87	1,002	0	93	0	11,397	2,046
Southern Illinois U., Edwardsville	288	18,044	49	2,542	7,333	185	1,374	0	334	0	1,786	4,441
U. Colorado Denver <sup>c</sup>	289	18,039	475	379	4,284	1,122	1,574	1,179	359	0	3,695	4,972
Tarleton State U.	290	17,729	395	3,745	7,521	342	359	368	778	1,014	166	3,041
U. Guam	291	17,666	0	5,047	11,783	87	86	0	205	4	0	454
Prairie View A&M U.	292	17,582	188	0	8,187	81	1,348	292	17	67	4,687	2,715
Montclair State U.	293	17,390	314	1,815	3,231	785	737	3,099	1,378	7	104	5,920
U. Akron	294	17,340	32	467	1,390	161	6,703	226	54	0	7,714	593
U. New Orleans	295	16,979	1,370	1,244	1,114	482	2,652	523	3,079	1,037	1,897	3,581
Clarkson U.	296	16,765	776	172	1,014	868	2,414	113	42	0	10,113	1,253
Fordham U.	297	16,731	287	0	1,207	140	1,067	2,116	662	0	0	11,252
U. North Carolina, Wilmington	298	16,656	244	4,311	7,179	51	435	214	1,183	370	1,064	1,605
California State U., Northridge	299	16,573	380	731	4,020	685	7,447	255	393	93	1,216	1,353
U. Tulsa	300	16,449	2,783	202	725	3	403	472	174	0	10,926	761
Jackson State U.	301	16,157	662	2	3,183	44	8,231	174	73	217	2,236	1,335
CUNY, Queens C.	302	16,063	294	402	10,421	251	1,815	1,082	579	102	0	1,117
Meharry Medical C.	303	15,840	0	0	15,840	0	0	0	0	0	0	0
U. North Florida	304	15,782	418	21	1,647	19	608	249	277	0	2,119	10,424

TABLE 23

## Higher education R&amp;D expenditures, ranked by all R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
South Dakota School of Mines and Technology	305	15,746	48	0	0	216	1,824	0	0	0	13,658	0
CUNY, Advanced Science Research Center	306	15,403	74	1,030	5,261	0	6,107	0	0	0	2,928	3
Tennessee Technological U.	307	15,387	2,581	24	2,510	0	879	80	87	0	8,455	771
Texas Christian U.	308	15,336	86	121	570	0	398	206	74	11,584	36	2,261
U. of the Virgin Islands	309	15,231	90	6,508	6,045	439	1,069	0	248	0	832	0
California State U., Long Beach	310	15,134	271	226	3,700	446	2,723	1,431	645	194	4,574	924
Long Island U.	311	15,059	5	261	7,162	372	996	950	906	0	0	4,407
CUNY, Graduate School of Public Health and Health Policy	312	15,035	0	0	14,025	0	0	1,010	0	0	0	0
Montana Technological U.	313	14,933	0	8,222	661	0	216	0	0	0	5,834	0
James Madison U.	314	14,687	845	628	3,372	345	1,825	1,345	150	3	174	6,000
U. Baltimore	315	14,672	46	0	0	0	45	0	2,824	0	0	11,757
U. Missouri, Saint Louis	316	14,632	187	0	6,118	407	2,345	241	1,882	304	0	3,148
New School	317	14,281	19	169	197	56	0	635	5,293	0	3,793	4,119
Alcorn State U.	318	14,188	0	0	6,826	0	0	0	7,181	0	181	0
North Carolina Central U.	319	14,105	157	294	6,109	0	3,257	0	250	0	1,773	2,265
Humboldt State U.	320	14,103	85	1,141	5,303	8	90	4	1,385	69	5,564	454
Loma Linda U.	321	14,029	0	0	13,191	0	0	597	0	0	0	241
Idaho State U.	322	13,953	686	1,627	4,167	2	1,847	266	213	527	4,411	207
Northeast Ohio Medical U.	323	13,853	0	5	13,823	0	0	0	23	2	0	0
Rosalind Franklin U. of Medicine and Science	324	13,805	0	0	13,478	0	0	327	0	0	0	0
Western Washington U.	325	13,450	383	3,379	719	375	2,191	1,497	818	1,096	587	2,405
Sam Houston State U.	326	13,315	26	124	2,688	444	503	631	1,970	0	36	6,893

TABLE 23

## Higher education R&amp;D expenditures, ranked by all R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Charles R. Drew U. of Medicine and Science	327	13,228	0	0	13,228	0	0	0	0	0	0	0
U. Hawaii, system office	328	12,918	1,327	11,591	0	0	0	0	0	0	0	0
Loyola Marymount U.	329	12,819	58	527	819	134	269	1,604	1,724	67	234	7,383
Xavier U. Louisiana	330	12,799	652	0	3,511	0	8,440	0	0	0	57	139
CUNY, John Jay C. of Criminal Justice	331	11,791	16	0	48	12	235	933	569	95	0	9,883
Hampton U.	332	11,669	994	2,881	1,685	344	3,409	0	1,041	0	827	488
California State U., San Bernardino	333	11,607	228	51	1,016	466	1,992	2,299	208	357	1,382	3,608
Texas Tech U., Health Sciences Center, El Paso	334	11,360	0	0	10,555	0	0	0	0	0	0	805
U. Tennessee, Chattanooga	335	11,192	899	0	878	206	22	246	21	3,530	3,578	1,812
Rhode Island C.	336	10,990	24	0	1,157	0	320	115	13	0	0	9,361
Midwestern U.	337	10,961	0	4	10,957	0	0	0	0	0	0	0
U.S. Naval Academy	338	10,818	774	649	0	993	1,604	0	8	0	6,719	71
Salisbury U.	339	10,552	303	988	2,598	123	440	13	488	0	3	5,596
Duquesne U.	340	10,521	0	510	6,085	71	615	160	46	0	102	2,932
California State U., San Marcos	341	10,213	620	13	1,120	0	1,063	1,150	680	2,892	1,682	993
Virginia State U.	342	10,123	0	8	7,191	217	0	95	0	0	1,273	1,339
Missouri State U.	343	10,014	42	177	2,109	0	345	34	263	0	7,024	20
West Texas A&M U.	344	9,920	301	688	6,240	1	200	0	0	184	1,400	906
St. Edward's U.	345	9,527	1,050	478	1,445	645	1,101	20	50	0	0	4,738
California State U., Los Angeles	346	9,382	218	23	740	26	5,165	103	1,131	0	1,486	490
California State U., Fresno	347	9,213	141	379	4,197	490	1,307	116	165	199	1,290	929
Texas Southern U.	348	9,128	136	79	5,033	167	1,168	425	845	0	27	1,248
Alabama A&M U.	349	9,065	307	0	5,357	74	627	171	283	0	1,714	532

TABLE 23

## Higher education R&amp;D expenditures, ranked by all R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
California State U., Fullerton	350	9,006	200	229	2,507	212	1,343	272	342	597	661	2,643
Bryn Mawr C.	351	8,987	356	151	709	599	1,119	327	1,542	0	0	4,184
Clark Atlanta U.	352	8,892	160	0	6,614	286	1,616	0	0	0	36	180
Ball State U.	353	8,826	1,079	0	2,674	27	826	183	1,473	0	0	2,564
Kentucky State U.	354	8,756	15	2	8,546	193	0	0	0	0	0	0
Central State U.	355	8,751	0	102	8,134	69	67	0	0	168	211	0
U. Arkansas, Pine Bluff	356	8,713	0	0	6,852	3	1,175	0	0	683	0	0
U. Maryland, Eastern Shore	357	8,636	0	4,182	4,310	0	0	0	0	0	144	0
Arkansas State U., Jonesboro	358	8,422	239	0	6,436	3	665	62	267	323	384	43
U. Washington, Bothell	359	8,311	188	405	668	0	681	0	0	0	304	6,065
Florida Gulf Coast U.	360	8,197	13	2,475	2,209	0	197	10	8	0	145	3,140
Winston-Salem State U.	361	8,123	590	0	3,530	0	956	356	1,458	0	0	1,233
U. of the District of Columbia	362	8,104	242	177	3,054	447	0	0	0	0	3,134	1,050
Wesleyan U.	363	8,009	0	450	1,469	402	2,137	1,002	136	0	0	2,413
Clark U.	364	7,931	36	1,197	2,197	0	1,386	223	2,711	0	0	181
William Paterson U.	365	7,867	178	487	1,051	68	140	485	1,591	0	0	3,867
Oklahoma State U., Center for Health Sciences	366	7,758	99	0	6,928	0	0	624	0	0	101	6
Lincoln U., Jefferson City	367	7,621	6	60	7,345	90	0	0	120	0	0	0
U. San Diego	368	7,580	42	226	111	643	1,377	149	209	37	980	3,806
U. Michigan, Dearborn	369	7,472	61	0	226	190	169	154	62	89	6,223	298
U. Hawaii, Hilo	370	7,411	94	1,195	4,525	998	66	0	179	322	0	32
U. Arkansas, Little Rock	371	7,397	3,312	0	1,997	0	685	0	93	0	809	501
Claremont Graduate U.	372	7,235	55	0	0	111	0	300	2,815	0	0	3,954
Eastern Michigan U.	373	7,233	30	108	2,811	174	211	183	892	6	427	2,391
U. Oklahoma, Tulsa	374	7,185	0	0	2,096	0	0	28	19	0	1,289	3,753

TABLE 23

## Higher education R&amp;D expenditures, ranked by all R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
California State Polytechnic U., Pomona	375	7,011	360	151	3,557	20	1,150	19	9	96	1,516	133
Western Kentucky U.	376	6,944	0	1,013	2,315	9	1,205	757	189	0	604	852
California State U., Monterey Bay	377	6,882	1,298	1,953	3,452	12	57	0	47	25	0	38
Grand Valley State U.	378	6,809	31	2,803	1,833	53	247	52	1,178	0	118	494
Western U. of Health Sciences	379	6,688	0	0	5,598	0	0	0	0	0	0	1,090
DePaul U.	380	6,675	1,552	276	573	2	258	2,415	43	174	0	1,382
Edward Via C. of Osteopathic Medicine	381	6,629	0	0	6,629	0	0	0	0	0	0	0
West Virginia State U.	382	6,565	2	0	6,436	0	0	0	0	0	0	127
C. Charleston	383	6,361	322	1,156	1,370	61	983	36	48	1,061	72	1,252
Langston U.	384	6,345	0	0	6,062	0	28	0	0	0	0	255
CUNY, Brooklyn C.	385	6,318	314	504	1,570	68	1,325	1,723	169	18	77	550
California State U., Bakersfield	386	6,253	0	134	197	2,321	447	524	146	0	839	1,645
Wellesley C.	387	6,252	505	86	1,554	263	327	899	722	0	345	1,551
U. New England	388	6,234	0	867	5,340	1	19	2	0	0	0	5
Philadelphia C. of Osteopathic Medicine	389	6,186	0	0	6,131	0	0	55	0	0	0	0
Indiana U. Pennsylvania	390	6,180	165	33	1,890	4	364	490	303	0	0	2,931
Southern U. and A&M C., Agricultural Research and Extension Center	391	6,164	0	0	6,164	0	0	0	0	0	0	0
Gallaudet U.	392	6,126	2,141	2	1,159	1	92	1,715	1,006	0	0	10
U. Central Oklahoma	393	5,997	139	0	382	132	729	0	0	106	1	4,508
Roseman U. of Health Sciences	394	5,985	0	0	5,893	0	0	0	0	0	0	92
Southern Connecticut State U.	395	5,750	154	300	689	187	576	332	400	229	0	2,883
Purdue U., Northwest	396	5,647	863	0	974	0	110	22	1	70	2,220	1,387

TABLE 23

## Higher education R&amp;D expenditures, ranked by all R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Hofstra U.	397	5,545	97	53	1,062	85	141	109	1,032	0	528	2,438
Naval War C.	398	5,542	0	0	0	0	0	0	794	0	0	4,748
Pennsylvania State U., Behrend	399	5,509	112	1,249	593	174	282	254	43	0	2,395	407
U. Southern Maine	400	5,480	1,422	18	830	11	17	0	2,867	17	159	139
Colorado C.	401	5,467	0	114	260	18	154	23	117	0	0	4,781
Yeshiva U.	402	5,452	0	0	3,830	0	253	0	0	0	0	1,369
U. Colorado Colorado Springs	403	5,338	1,965	141	755	0	310	259	36	127	902	843
Seton Hall U.	404	5,320	0	0	607	0	396	0	0	0	0	4,317
Azusa Pacific U.	405	5,318	92	0	1,022	125	207	844	171	0	5	2,852
U. of Health Sciences and Pharmacy in St. Louis	406	5,313	0	0	5,313	0	0	0	0	0	0	0
Des Moines U.	407	5,258	0	206	3,805	0	0	0	593	0	0	654
Hope C.	408	5,211	63	59	1,152	30	2,032	177	639	0	277	782
U. of St. Thomas (MN)	409	5,146	328	222	182	28	168	328	3	0	3,212	675
Rutgers, State U. New Jersey, Camden	410	5,142	2,353	0	13	111	41	26	1,339	0	0	1,259
Reed C.	411	5,132	72	0	1,629	229	866	464	422	0	0	1,450
High Tech High Graduate School of Ed.	412	5,032	0	0	0	0	0	0	0	0	0	5,032
Toyota Technological Institute, Chicago	413	4,967	4,967	0	0	0	0	0	0	0	0	0
Southern U. and A&M C., Baton Rouge	414	4,943	473	0	492	68	583	0	1	0	2,282	1,044
Texas Woman's U.	414	4,943	11	0	3,053	1	7	695	83	0	0	1,093
Williams C.	416	4,902	113	200	703	411	1,237	83	812	1	0	1,342
U. North Carolina, Asheville	417	4,844	284	260	2,045	0	558	2	0	0	0	1,695
Fort Valley State U.	418	4,842	42	82	4,620	22	76	0	0	0	0	0
Lamar U.	419	4,734	72	24	423	83	115	0	0	0	2,437	1,580
Pacific U.	420	4,690	0	0	3,186	46	299	0	236	0	0	923
U.S. Army War C.	421	4,662	0	0	0	0	0	0	4,662	0	0	0

TABLE 23

## Higher education R&amp;D expenditures, ranked by all R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Amherst C.	422	4,636	150	567	1,259	316	1,203	201	530	0	0	410
Barnard C.	423	4,632	260	164	1,008	10	1,319	1,043	320	0	0	508
Abilene Christian U.	424	4,597	0	0	101	0	4,209	21	11	25	45	185
U. Detroit Mercy	425	4,578	0	0	4,096	153	6	53	0	0	114	156
Morehouse C.	426	4,533	540	0	90	949	1,831	59	0	633	0	431
Claremont McKenna C.	427	4,515	0	17	274	103	136	113	3,532	29	0	311
Appalachian State U.	428	4,509	356	357	1,745	29	591	307	265	0	0	859
Bucknell U.	429	4,476	114	10	674	110	816	129	126	663	1,494	340
New York Institute of Technology	430	4,465	303	0	3,277	0	3	0	31	0	775	76
West Chester U. Pennsylvania	431	4,433	21	55	815	103	466	253	524	140	0	2,056
U. Wisconsin-Stevens Point	432	4,401	0	368	3,716	0	61	0	7	0	241	8
Fisk U.	433	4,320	415	0	1,601	415	1,645	60	7	0	0	177
Norfolk State U.	434	4,316	1,957	0	88	29	763	0	58	0	1,413	8
Oregon Institute of Technology	435	4,314	134	328	2,894	84	0	113	0	0	761	0
U. Washington, Tacoma	436	4,291	224	2,838	281	25	0	0	175	0	319	429
CUNY, Graduate Center	437	4,265	22	0	110	332	547	682	1,325	328	6	913
California State U., Chico	438	4,209	0	426	1,522	41	172	0	237	0	1,236	575
CUNY, Lehman C.	439	4,181	81	20	249	343	2,062	0	213	0	0	1,213
Grinnell C.	440	4,122	201	0	423	108	691	20	686	0	0	1,993
Smith C.	441	4,085	352	228	1,462	120	495	195	93	0	688	452
U. New Haven	442	4,069	1,359	93	190	0	323	232	1,499	0	319	54
U. North Carolina, general administration	443	4,024	1,192	0	534	0	0	11	0	0	2,068	219
U. of the Sciences Philadelphia	444	4,005	0	0	3,319	0	686	0	0	0	0	0
U. Central Arkansas	445	3,990	470	22	755	35	568	87	2	0	0	2,051
Fayetteville State U.	446	3,933	584	0	960	0	147	0	293	0	288	1,661
South Carolina State U.	446	3,933	108	0	1,416	0	1,000	0	0	0	712	697

TABLE 23

## Higher education R&amp;D expenditures, ranked by all R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Murray State U.	448	3,844	0	139	3,108	309	201	0	0	0	0	87
Haverford C.	449	3,835	39	145	647	28	2,342	77	146	0	0	411
U. Central del Caribe	450	3,831	0	0	3,831	0	0	0	0	0	0	0
Texas A&M U.-Commerce	451	3,827	61	0	587	34	995	191	99	0	64	1,796
Carleton C.	452	3,800	68	900	501	173	531	234	577	0	0	816
Towson U.	453	3,794	530	481	914	191	723	213	238	0	0	504
National Defense U.	454	3,786	0	0	400	0	0	0	2,186	0	0	1,200
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	455	3,776	0	0	3,776	0	0	0	0	0	0	0
Texas A&M International U.	456	3,740	0	39	216	91	154	53	914	628	241	1,404
Franklin and Marshall C.	457	3,722	70	119	840	50	660	80	376	4	0	1,523
Albany C. of Pharmacy and Health Sciences	458	3,687	0	0	3,687	0	0	0	0	0	0	0
Pace U.	459	3,649	758	0	644	0	226	7	5	0	706	1,303
Occidental C.	460	3,587	280	1,201	503	97	762	393	287	0	0	64
U. Massachusetts, central office	461	3,541	0	0	392	0	0	0	1,611	852	0	686
Kean U.	462	3,538	229	61	56	0	18	16	0	13	0	3,145
Western Illinois U.	463	3,532	0	0	2,346	1	68	0	199	0	780	138
U. Texas of the Permian Basin	464	3,504	0	0	983	0	30	23	380	60	792	1,236
Touro U.	465	3,489	0	0	3,475	0	0	0	0	0	0	14
SUNY, C. of Optometry	466	3,460	0	0	3,460	0	0	0	0	0	0	0
Dakota State U.	467	3,416	3,080	37	80	0	58	0	0	0	0	161
Northern Kentucky U.	468	3,403	34	0	1,939	65	671	459	98	0	0	137
U. Virginia's C. Wise	469	3,310	1,174	0	125	0	20	0	27	0	0	1,964
Colgate U.	470	3,306	214	677	507	153	884	63	309	0	0	499



TABLE 23

## Higher education R&amp;D expenditures, ranked by all R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Swarthmore C.	471	3,296	16	0	824	136	891	110	194	51	174	900
U. Northern Iowa	472	3,259	18	151	387	1	966	0	1,657	0	0	79
Stephen F. Austin State U.	473	3,204	14	121	2,042	109	29	2	203	0	0	684
U. Nebraska, Kearney	474	3,201	43	0	2,021	0	657	127	19	0	0	334
Milwaukee School of Engineering	475	3,193	47	0	0	0	17	0	0	0	3,129	0
U. Northern Colorado	476	3,159	0	147	1,263	135	149	81	534	0	0	850
Santa Clara U.	477	3,142	0	0	545	39	516	0	102	0	1,588	352
MGH Institute of Health Professions	478	3,037	0	0	2,500	0	0	0	0	0	0	537
U. Wisconsin-La Crosse	479	3,001	42	18	681	84	476	7	1,487	52	0	154
Colorado State U., Pueblo	480	2,990	190	0	1,845	19	8	27	6	0	64	831
Sonoma State U.	481	2,957	12	1,617	585	235	289	58	51	30	1	79
St. John's U., New York	482	2,940	75	0	2,197	0	345	79	0	0	0	244
Pennsylvania State U., Harrisburg	483	2,938	2	22	1,536	4	0	444	258	0	386	286
Middlebury C.	484	2,927	241	425	1,017	62	648	181	353	0	0	0
Saint Joseph's U.	485	2,922	192	0	547	8	137	349	165	0	0	1,524
Trinity U.	486	2,905	64	96	461	41	1,165	313	411	0	47	307
CUNY, C. Staten Island	487	2,860	54	0	1,109	391	525	352	21	0	274	134
Western Carolina U.	488	2,847	0	314	1,484	3	45	0	290	0	305	406
Northwest Indian C.	489	2,806	1	1,084	108	0	0	0	1,096	0	0	517
California State U., Maritime Academy	490	2,799	0	0	0	0	0	0	0	0	2,603	196
Youngstown State U.	491	2,775	28	0	42	3	335	55	33	0	1,794	485
Austin Peay State U.	492	2,740	1	611	1,404	1	50	0	0	16	0	657
Pittsburg State U.	493	2,730	0	0	293	0	24	0	163	0	2,250	0
California State U., Dominguez Hills	494	2,690	620	8	140	125	418	360	314	0	0	705
Alfred U.	495	2,660	0	1	0	0	5	0	0	0	2,654	0
Christopher Newport U.	496	2,656	0	0	536	180	731	54	216	0	656	283

TABLE 23

## Higher education R&amp;D expenditures, ranked by all R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Pepperdine U.	497	2,655	0	0	564	26	111	248	503	112	0	1,091
Alabama State U.	498	2,631	0	0	2,265	0	0	0	0	0	366	0
Bates C.	499	2,620	19	37	1,783	2	413	101	173	49	0	43
U. Illinois, Springfield	500	2,612	0	0	6	0	20	0	2,260	0	0	326
U. Wisconsin-Superior	501	2,602	0	11	2,338	0	0	0	42	0	207	4
Winthrop U.	502	2,586	36	0	253	6	382	44	642	78	0	1,145
Pratt Institute	503	2,547	0	0	0	0	0	0	0	0	0	2,547
Dillard U.	504	2,528	0	87	1,356	0	252	0	38	0	0	795
CUNY, Baruch C.	505	2,521	45	44	785	211	256	279	677	0	0	224
Purdue U., Fort Wayne	506	2,495	0	0	255	8	92	233	108	156	465	1,178
Davidson C.	507	2,466	0	0	595	79	451	691	456	7	0	187
Johnson C. Smith U.	508	2,461	i 12	i 0	i 437	i 0	i 318	i 0	i 0	i 0	i 386	i 1,308
Furman U.	509	2,431	53	78	348	0	1,114	178	5	0	0	655
Saginaw Valley State U.	510	2,428	i 7	i 36	i 1,282	i 617	i 36	i 11	i 105	i 12	i 280	i 42
Bowdoin C.	511	2,417	81	328	1,262	10	288	125	18	0	0	305
Central Washington U.	512	2,410	202	1,204	380	169	285	0	88	0	72	10
Framingham State U.	513	2,401	i 0	i 0	i 2,132	i 0	i 258	i 11	i 0	i 0	i 0	i 0
St. Cloud State U.	514	2,379	233	128	379	0	13	0	393	2	31	1,200
Harvey Mudd C.	515	2,359	645	0	364	111	531	0	0	162	515	31
California State U., Channel Islands	516	2,341	22	0	1,001	348	301	4	22	485	79	79
Skidmore C.	517	2,335	14	320	1,042	0	689	146	58	0	0	66
Marymount U.	518	2,307	655	0	624	0	88	89	356	0	0	495
U. Richmond	519	2,294	0	218	766	114	454	354	211	0	0	177
Spelman C.	520	2,282	13	0	633	96	523	568	53	0	0	396
Lewis and Clark C.	521	2,281	0	280	288	79	249	29	11	0	0	1,345
U. Texas, Tyler	522	2,279	21	0	1,260	9	46	214	27	0	537	165
Keck Graduate Institute	523	2,254	i 0	i 0	i 1,765	i 0	i 0	i 0	i 0	i 0	i 356	i 133
Coastal Carolina U.	524	2,245	91	1,415	386	0	88	7	0	7	68	183
Palmer C. of Chiropractic, Davenport	525	2,233	0	0	2,233	0	0	0	0	0	0	0
U. Louisiana, Monroe	526	2,198	0	64	1,885	0	17	0	169	0	0	63

TABLE 23

## Higher education R&amp;D expenditures, ranked by all R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Minnesota State U., Mankato	527	2,170	0	13	448	0	29	298	0	250	996	136
Pomona C.	528	2,146	272	193	288	162	347	286	330	0	0	268
Sul Ross State U.	529	2,143	0	22	1,654	1	0	0	466	0	0	0
Grambling State U.	530	2,124	0	0	0	0	1,238	0	0	0	0	886
Tougaloo C.	531	2,092	0	0	1,733	0	359	0	0	0	0	0
California State U., Stanislaus	532	2,085	186	13	1,232	253	84	218	70	0	0	29
SUNY, Geneseo	533	2,070	0	212	108	3	1,197	219	108	0	0	223
Citadel Military C. South Carolina	534	2,054	1,033	0	108	8	76	16	6	0	250	557
Suffolk U.	535	2,043	0	28	33	0	70	438	0	0	66	1,408
U. South Carolina, Aiken	536	2,042	0	0	657	3	9	3	0	0	1,322	48
Elon U.	537	2,032	41	0	288	87	59	132	264	21	29	1,111
Mount Holyoke C.	538	2,026	152	0	456	62	550	519	106	0	0	181
U. of the Incarnate Word	539	1,982	0	0	1,369	42	298	0	0	0	186	87
New England C. of Optometry	540	1,978	0	0	1,978	0	0	0	0	0	0	0
SUNY, Buffalo State	541	1,962	0	869	780	112	0	0	174	0	0	27
Hobart and William Smith Colleges	542	1,941	4	23	1,664	6	152	7	30	0	0	55
Mercyhurst U.	543	1,937	76	42	1,428	20	134	22	86	0	0	129
Fort Lewis C.	544	1,926	0	46	416	4	835	0	0	0	605	20
Eastern Washington U.	545	1,921	0	61	436	1	63	39	1,318	0	0	3
Northeastern Illinois U.	546	1,913	46	68	1,111	71	34	0	40	0	0	543
C. New Jersey	547	1,912	178	0	856	10	423	10	1	67	283	84
U. Puerto Rico, Cayey	548	1,881	0	0	563	0	127	0	171	1,020	0	0
U. Wisconsin-Green Bay	549	1,879	56	82	1,065	15	112	31	64	0	327	127
Manhattan C.	550	1,864	0	0	49	239	112	0	0	0	1,122	342
Roger Williams U.	551	1,854	0	777	543	0	2	116	0	0	32	384

TABLE 23

## Higher education R&amp;D expenditures, ranked by all R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Wisconsin-Eau Claire	552	1,852	0	69	232	102	1,041	245	88	0	0	75
Hawaii Pacific U.	553	1,849	72	289	1,211	0	0	0	232	0	13	32
U. Houston-Downtown	554	1,828	194	52	25	19	382	0	128	5	189	834
Willamette U.	555	1,817	0	53	474	10	179	39	4	51	0	1,007
Savannah State U.	556	1,804	0	815	268	0	34	0	0	99	588	0
Trinity C., Hartford	557	1,775	9	0	1,077	64	113	295	117	0	45	55
Lawrence Technological U.	558	1,764	54	0	0	9	55	0	0	0	555	1,091
Morehead State U.	559	1,754	0	7	802	0	5	0	165	0	756	19
Hamilton C.	560	1,747	4	1	122	10	193	69	322	60	0	966
Heidelberg U.	561	1,725	0	1,725	0	0	0	0	0	0	0	0
Erikson Institute	562	1,723	0	0	0	0	0	0	0	0	0	1,723
Southeastern Louisiana U.	562	1,723	2	0	795	0	247	0	11	0	16	652
Elizabeth City State U.	564	1,717	518	0	752	0	0	49	0	0	0	398
U. Houston-Clear Lake	565	1,716	34	0	942	0	236	136	51	0	0	317
Colby C.	566	1,672	94	187	382	3	245	72	150	0	0	539
Monmouth U.	567	1,667	0	1,492	74	0	44	12	45	0	0	0
CUNY, system office	568	1,664	158	0	37	0	0	49	0	283	1,137	0
Northwestern State U. Louisiana	569	1,663	224	0	89	12	0	0	919	0	0	419
U. Wisconsin-Oshkosh	570	1,656	0	126	740	0	292	41	75	0	158	224
Eastern Connecticut State U.	571	1,646	248	143	210	87	5	28	3	127	0	795
Franklin W. Olin C. of Engineering	572	1,627	0	0	0	0	0	0	0	0	936	691
Vassar C.	573	1,606	227	17	307	307	178	269	193	0	0	108
U. Ana G. Mendez, Gurabo	574	1,574	0	0	293	14	142	39	0	0	1,034	52
Seattle U.	575	1,562	0	54	33	93	86	5	176	0	62	1,053
Troy U.	576	1,548	0	31	250	0	1,102	1	10	0	0	154
La Sierra U.	577	1,517	0	0	5	0	1	0	0	0	0	1,511
Calvin U.	578	1,490	218	31	514	33	458	0	88	0	97	51

TABLE 23

## Higher education R&amp;D expenditures, ranked by all R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Drake U.	579	1,488	1	0	503	28	221	0	31	0	0	704
U. North Georgia	580	1,415	335	132	122	0	2	0	5	0	0	819
Bowie State U.	581	1,398	446	0	96	0	438	0	0	0	0	418
Union C., Schenectady	582	1,396	59	252	74	6	185	24	31	0	722	43
U. San Francisco	583	1,375	16	204	398	16	144	28	148	50	3	368
U. of the Pacific	584	1,371	0	43	870	0	223	6	0	0	228	1
CUNY, New York City C. of Technology	585	1,367	172	0	362	50	331	0	11	0	103	338
Northern Michigan U.	586	1,364	37	101	855	0	10	69	55	0	0	237
Marshall B. Ketchum U.	587	1,351	0	0	1,351	0	0	0	0	0	0	0
U. Puerto Rico, Humacao	588	1,321	0	17	111	0	1,083	110	0	0	0	0
Kettering U.	589	1,315	5	0	8	2	77	0	0	0	295	928
Central Connecticut State U.	590	1,314	33	79	142	25	73	14	541	0	100	307
Babson C.	591	1,286	0	0	0	0	0	0	0	0	0	1,286
Black Hills State U.	592	1,280	295	0	806	0	103	0	0	0	0	76
Macalester C.	592	1,280	70	221	108	100	451	23	160	0	0	147
SUNY, C. Plattsburgh	592	1,280	0	813	279	0	137	0	0	0	0	51
Florida Polytechnic U.	595	1,269	193	0	0	0	71	0	73	0	829	103
West Virginia School of Osteopathic Medicine	596	1,255	0	0	1,245	0	0	0	0	0	0	10
U. Hartford	597	1,252	1	0	77	100	0	51	55	0	963	5
Stockton U.	598	1,246	0	885	247	0	0	0	114	0	0	0
Connecticut C.	599	1,244	168	0	232	0	271	166	407	0	0	0
Biola U.	600	1,243	48	0	811	13	85	13	40	8	167	58
Doane U.	601	1,176	198	0	630	0	119	0	0	0	1	228
U. Alaska, Southeast	601	1,176	0	228	788	0	67	0	9	80	4	0
U. Wisconsin-Platteville	603	1,144	37	0	514	19	82	20	93	14	171	194
CUNY, York C.	604	1,133	0	543	142	12	192	159	0	0	12	73
New Mexico Highlands U.	605	1,129	141	198	222	0	568	0	0	0	0	0
Albion C.	606	1,127	1	82	94	30	435	44	171	11	0	259

TABLE 23

## Higher education R&amp;D expenditures, ranked by all R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Saint John's U.	607	1,125 i	20 i	0 i	470 i	13 i	108 i	37 i	125 i	0 i	0 i	352 i
U. of Mary Washington	608	1,123	82	54	155	5	100	0	40	0	0	687
SUNY, C. Brockport	609	1,114	0	319	680	1	103	0	6	0	2	3
Northland C.	610	1,096 i	0 i	78 i	628 i	40 i	0 i	63 i	72 i	0 i	0 i	215 i
C. Wooster	611	1,071 i	109 i	59 i	257 i	106 i	240 i	37 i	16 i	0 i	0 i	247 i
C. of Saint Benedict	612	1,064 i	19 i	0 i	450 i	14 i	108 i	37 i	114 i	0 i	0 i	322 i
Indiana State U.	613	1,042	0	74	465	37	89	0	0	10	2	365
Alaska Pacific U.	614	1,036	0	1,005	29	0	0	0	0	0	0	2
Canisius C.	614	1,036	0	0	0	0	173	0	0	863	0	0
Ithaca C.	616	1,030	73	114	230	74	379	2	94	0	0	64
Clafin U.	617	1,015	173	26	515	0	129	0	107	0	65	0
Lafayette C.	617	1,015	76	5	94	24	286	88	85	0	201	156
Augustana U.	619	1,013	0	0	546	0	457	0	0	0	0	10
SUNY, Oswego	620	1,003	56	71	135	3	328	2	71	257	43	37
U. Wisconsin-River Falls	621	999	86	0	645	0	84	4	0	0	18	162
Eastern Kentucky U.	622	986	0	10	509	0	131	43	64	82	58	89
Sacred Heart U.	623	972	12	40	26	0	64	0	0	32	0	798
Rhode Island School of Design	624	971 i	0 i	0 i	0 i	0 i	0 i	0 i	247 i	0 i	0 i	724 i
U. Hawaii, Maui C.	625	967	450	144	253	0	0	0	10	0	0	110
Liberty U.	626	937	0	0	497	0	0	0	17	0	208	215
Keene State C.	627	919	47	0	510	0	248	0	0	0	114	0
Indiana U., South Bend	628	898	3	1	62	0	281	187	10	170	0	184
Arcadia U.	629	889	84	0	201	0	0	0	0	0	0	604
Albany State U.	630	880	0	299	272	0	102	0	11	0	14	182
U. Minnesota, Morris	631	855	168	180	31	0	108	0	33	0	0	335
Mills C.	632	850	0	0	129	38	0	0	0	0	0	683
National U. of Natural Medicine	632	850	0	0	850	0	0	0	0	0	0	0
Fairfield U.	634	849	12	0	36	78	134	9	79	0	109	392
Fielding Graduate U.	635	843	0	0	0	0	0	0	843	0	0	0
St. Olaf C.	636	816	114	71	321	4	82	51	84	0	0	89

TABLE 23

**Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
American Samoa Community C.	637	815	0	0	0	0	0	0	815	0	0	0
Andrews U.	638	802	0	32	7	0	174	0	509	0	50	30
Fort Hays State U.	639	800	0	117	334	0	267	0	11	0	0	71
Oberlin C.	640	776	62	27	239	39	298	11	26	0	0	74
Providence C.	641	766	0	144	442	0	99	35	18	0	17	11
U. Michigan, Flint	642	752	16	0	172	0	12	5	14	30	225	278
Wheaton C., Wheaton	643	729	6	81	57	15	148	89	282	0	0	51
Dordt U.	644	696	69	0	464	94	11	0	1	0	45	12
Niagara U.	645	509	0	0	49	5	42	0	195	0	0	218
Albizu U.	646	428	0	0	0	0	0	428	0	0	0	0
Lipscomb U.	647	321	0	0	0	0	0	0	0	99	203	19
Jacksonville State U.	648	275	0	0	61	0	0	0	0	0	6	208

i = imputed.

nec = not elsewhere classified; S&amp;E = science and engineering.

<sup>a</sup> Johns Hopkins University includes the Applied Physics Laboratory, with \$1,949,752 thousand in total R&D expenditures in FY 2021.<sup>b</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.<sup>c</sup> The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.<sup>d</sup> The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.**Note(s):**Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#). This table includes only institutions reporting \$1 million or more in total R&D expenditures in 2020. Institutions reporting less than \$1 million in total R&D expenditures in 2020 completed a shorter version of the survey form in FY 2021, and that form did not collect R&D expenditures by source and detailed field. For R&D expenditures by major field at institutions completing the shorter version of the survey, see [table 84](#).**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2021.

TABLE 24

**Federally financed higher education R&D expenditures, ranked by FY 2021 R&D expenditures: FYs 2010–21**

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
All institutions	-	37,477,582	40,768,251	40,142,223	39,445,931	37,961,118	37,846,802	38,788,615	40,248,750	41,861,164	44,461,456	46,114,365	49,143,460
Johns Hopkins U. <sup>a</sup>	1	1,737,261	1,884,025	1,857,580	1,898,927	1,950,016	1,992,837	2,104,653	2,178,605	2,251,097	2,482,130	2,682,410	2,774,643
U. Washington, Seattle	2	829,885	948,976	909,652	928,193	909,034	906,768	946,787	952,738	989,221	992,643	1,024,195	1,046,377
U. Michigan, Ann Arbor	3	747,778	820,125	791,729	814,167	742,160	735,447	786,749	829,695	849,123	886,851	884,880	891,125
Georgia Institute of Technology	4	372,122	427,867	484,212	522,134	512,015	551,084	568,430	584,891	654,877	716,207	790,518	852,319
Columbia U. in the City of New York	5	572,213	645,233	645,573	635,987	608,588	592,545	600,457	647,840	686,338	736,536	762,289	831,648
Stanford U.	6	593,016	656,114	636,348	652,472	637,730	675,930	694,693	710,698	711,443	738,957	751,414	811,183
U. California, San Diego	7	580,279	636,879	656,891	632,593	599,095	603,343	604,298	641,469	635,888	698,925	727,289	801,117
U. Pennsylvania	8	642,180	707,051	669,970	636,589	620,396	611,620	655,791	669,911	688,313	717,359	721,308	792,089
Duke U.	9	514,084	585,262	587,268	581,695	557,969	559,217	575,521	623,573	645,259	709,705	707,746	776,632
U. North Carolina, Chapel Hill	10	545,993	600,843	606,348	623,237	610,664	585,758	632,426	676,282	701,169	720,613	706,145	747,895
U. Pittsburgh, Pittsburgh	11	594,675	662,471	637,857	622,232	582,136	561,210	580,650	617,884	649,166	677,559	689,273	724,993
U. California, Los Angeles	12	538,521	563,560	539,054	501,368	465,170	489,404	487,869	487,846	576,076	600,714	655,030	721,043
U. Maryland <sup>b</sup>	13	na	na	na	na	na	na	na	na	na	696,880	689,125	713,283
U. California, San Francisco	14	514,693	570,116	559,329	566,117	544,697	535,457	602,705	606,768	669,470	671,047	676,331	683,179
Yale U.	15	475,794	519,844	518,184	503,227	480,384	477,143	503,221	541,608	552,242	576,776	585,170	647,656
U. Wisconsin-Madison	16	545,189	593,633	580,661	555,875	548,388	533,286	567,132	570,796	574,048	608,925	632,558	646,764
Pennsylvania State U., University Park and Hershey Medical Center	17	464,750	468,705	531,421	558,871	520,574	513,410	538,938	538,164	565,348	600,489	638,930	622,532
Harvard U.	18	474,899	543,097	589,860	594,392	572,918	545,202	558,611	573,157	587,584	618,405	605,603	616,589
Washington U., Saint Louis	19	468,642	469,490	441,406	411,299	419,122	432,228	442,335	474,446	506,006	543,508	559,882	606,127
Cornell U.	20	448,085	476,583	472,673	445,116	439,770	446,360	430,987	438,182	470,020	525,182	562,021	592,359
Vanderbilt U. and Vanderbilt U. Medical Center	21	397,656	458,173	448,948	445,044	422,448	401,738	405,589	452,885	471,625	492,808	514,299	586,880
U. Southern California	22	408,564	453,283	443,842	437,813	431,430	421,227	409,516	450,204	501,893	543,607	562,120	574,185
Northwestern U.	23	360,980	399,719	393,074	396,138	391,946	393,186	432,413	446,609	469,525	502,300	531,654	572,975
U. Minnesota, Twin Cities	24	426,359	489,480	485,462	494,206	489,767	476,029	469,260	456,443	464,300	494,549	514,092	570,946
Ohio State U.	25	399,942	493,130	445,635	456,590	454,484	446,048	454,834	464,311	474,994	497,651	539,359	559,797
Icahn School of Medicine at Mount Sinai	26	302,770	296,835	271,722	277,517	300,667	329,641	342,104	367,522	398,656	443,745	480,452	554,582
New York U.	27	260,463	302,221	316,208	300,730	330,484	344,570	350,355	391,144	416,143	436,850	448,850	547,027
Texas A&M U., College Station and Health Science Center	28	288,173	291,812	269,460	314,104	311,920	304,437	293,551	307,656	333,768	359,609	517,489	528,057
Emory U.	29	336,986	369,982	361,165	365,121	330,378	348,071	361,288	382,177	393,647	424,461	452,636	515,940
U. Texas, Austin	30	350,308	355,437	354,873	372,633	332,758	346,215	357,309	396,447	405,131	407,981	500,409	489,827
Massachusetts Institute of Technology	31	457,575	489,080	496,132	490,809	483,891	488,421	503,858	487,434	479,654	489,345	488,741	483,526
U. Colorado Boulder	32	292,030	323,078	330,089	319,869	314,890	353,341	371,995	374,209	391,817	412,691	427,869	459,816
U. Alabama, Birmingham	33	325,103	344,164	306,210	290,082	280,333	328,531	348,632	358,916	373,360	398,403	400,110	423,290



TABLE 24

**Federally financed higher education R&D expenditures, ranked by FY 2021 R&D expenditures: FYs 2010–21**

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
U. Florida	34	279,649	306,349	305,067	296,199	289,327	287,230	307,140	327,288	355,517	387,906	397,202	423,154
U. Illinois, Urbana-Champaign	35	303,852	323,454	359,989	468,798	343,275	338,178	335,056	358,905	353,710	382,206	387,853	406,612
Boston U.	36	302,411	305,476	275,319	267,194	257,017	259,736	253,475	259,832	284,888	318,511	339,172	402,443
U. Chicago	37	352,728	372,288	336,125	300,718	281,464	294,437	297,953	308,002	303,175	332,776	352,447	394,275
U. California, Davis	38	332,325	362,976	358,577	347,038	330,367	326,039	339,209	342,407	360,018	374,707	380,965	373,719
Baylor C. of Medicine	39	284,072	295,529	268,753	285,230	264,641	256,895	267,849	292,806	300,098	309,354	315,101	365,472
U. Colorado Anschutz Medical Campus <sup>C</sup>	40	na	na	na	na	na	na	na	na	na	na	na	363,999
U. California, Berkeley	41	312,789	336,191	338,759	311,809	313,390	346,262	341,807	330,339	329,464	347,601	349,989	354,478
U. Arizona	42	308,157	327,565	331,578	338,790	290,370	269,959	262,989	273,567	291,767	327,025	328,807	353,117
Michigan State U.	43	214,134	240,837	268,952	260,610	261,826	272,838	310,225	343,751	328,618	331,148	329,748	349,889
Case Western Reserve U.	44	333,689	353,470	359,000	349,487	329,320	308,434	321,214	326,643	349,177	357,549	357,589	340,438
U. Utah	45	227,021	264,234	273,150	301,045	288,514	274,375	233,652	248,908	307,844	302,585	314,023	340,434
Rutgers, State U. New Jersey, New Brunswick	46	224,894	239,908	279,161	295,028	360,157	323,675	321,432	340,801	350,912	297,609	311,743	339,015
Oregon Health and Science U.	47	247,054	268,777	242,337	246,491	247,740	245,509	232,688	245,199	264,492	298,227	321,572	329,016
Indiana U., Bloomington	48	71,208	74,143	79,727	85,852	84,592	210,899	221,801	245,155	249,243	308,586	319,039	326,326
U. Rochester	49	322,048	337,907	308,115	299,553	266,767	262,681	266,322	267,860	285,330	306,551	296,241	309,647
U. Cincinnati	50	262,513	287,182	267,691	258,460	245,086	251,717	231,817	242,237	250,202	252,892	285,899	309,097
Colorado State U., Fort Collins	51	211,297	236,566	252,286	219,856	212,054	219,321	232,108	239,165	268,747	284,482	287,100	303,901
U. Virginia, Charlottesville	52	228,917	252,928	240,254	225,567	205,865	203,401	210,980	228,910	250,168	276,335	300,348	297,273
Purdue U., West Lafayette	53	232,564	259,948	270,655	271,504	236,860	217,330	229,093	245,110	251,517	249,831	270,605	295,278
California Institute of Technology	54	328,522	342,945	326,701	282,823	279,515	272,673	265,206	277,358	280,451	287,198	316,519	293,197
U. Iowa	55	282,465	283,627	269,734	255,329	235,527	225,587	237,743	238,842	246,117	252,563	259,639	283,763
Uniformed Services U. of the Health Sciences	56	72,125	117,781	102,134	119,647	213,389	299,007	175,007	204,241	218,702	297,808	235,202	275,573
Arizona State U.	57	172,202	185,766	194,376	201,363	196,270	196,528	212,396	227,621	254,384	267,087	278,150	274,541
Scripps Research Institute	58	313,746	317,201	309,471	308,628	292,268	274,097	242,489	250,090	267,088	267,122	243,502	272,181
Utah State U.	59	90,581	113,871	108,501	106,985	114,959	120,369	125,661	138,518	159,447	220,504	242,156	264,575
U. Texas Southwestern Medical Center	60	232,027	231,639	207,513	198,114	185,137	183,787	185,263	200,085	197,910	203,544	242,679	257,611
U. California, Irvine	61	194,559	209,117	206,985	198,730	182,585	174,875	177,779	187,535	201,173	217,094	241,734	255,010
U. Massachusetts, Medical School	62	178,293	208,244	202,149	189,159	183,582	183,588	181,446	200,232	194,953	197,388	192,938	248,873
U. New Mexico	63	148,216	162,854	160,895	158,057	153,889	154,794	159,280	165,128	169,952	159,940	161,627	242,212
North Carolina State U.	64	139,096	155,293	174,758	177,118	181,449	199,862	202,336	218,274	219,258	228,945	232,110	239,115
U. Illinois, Chicago	65	232,380	248,936	246,128	222,566	203,733	196,010	187,990	198,049	196,840	208,603	223,030	237,949
Carnegie Mellon U.	66	179,386	200,967	209,522	215,560	198,247	187,259	190,620	189,974	181,958	197,978	217,625	234,993
U. Miami	67	197,824	225,352	224,172	205,870	203,751	193,606	195,328	194,385	192,598	212,023	224,184	231,001
Woods Hole Oceanographic Institution	68	153,066	165,819	161,115	158,672	177,616	172,995	166,010	148,491	163,003	184,995	191,186	222,351

TABLE 24

**Federally financed higher education R&D expenditures, ranked by FY 2021 R&D expenditures: FYs 2010–21**

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
U. Kentucky	69	171,528	179,161	159,678	150,468	142,312	146,548	154,559	171,323	171,672	192,945	200,664	220,703
U. Texas M. D. Anderson Cancer Center	70	206,664	236,400	196,753	182,971	158,986	161,171	155,044	166,552	173,206	176,156	186,488	217,073
Virginia Polytechnic Institute and State U.	71	162,566	189,198	184,175	201,646	204,308	196,096	195,859	186,054	199,897	209,607	210,792	216,733
Albert Einstein C. of Medicine	72	na	na	na	na	na	na	188,521	188,259	196,457	202,513	204,635	214,619
SUNY, U. Buffalo	73	167,099	182,585	193,613	204,995	189,209	177,441	182,883	186,836	186,494	182,983	200,155	210,257
Princeton U.	74	150,261	163,438	161,591	156,541	164,277	158,313	162,003	176,029	180,305	193,453	203,259	205,000
Brown U.	75	127,087	128,628	131,994	126,559	129,248	132,142	136,931	145,556	164,452	178,460	185,676	198,574
U. Oklahoma, Norman and Health Science Center	76	105,366	118,970	133,841	132,456	118,925	127,709	134,772	133,177	149,317	164,855	183,728	193,639
Wake Forest U.	77	159,084	173,130	172,779	156,506	153,069	148,451	141,052	148,001	154,363	165,702	166,596	188,887
U. Georgia	78	119,486	137,255	137,710	131,824	126,164	132,118	143,886	158,229	148,543	159,948	171,351	188,451
U. Kansas	79	147,598	162,721	171,043	174,021	165,442	155,835	140,002	148,178	155,147	169,694	185,007	187,249
U. South Florida <sup>d</sup>	80	243,017	243,030	236,148	225,414	222,790	218,338	228,365	250,384	179,024	181,882	158,958	185,364
U. Connecticut	81	132,169	144,280	153,264	148,651	144,104	137,980	146,390	145,637	144,048	159,220	164,848	183,362
U. Dayton	82	73,540	70,996	65,169	67,698	66,318	77,973	100,955	118,452	132,358	153,328	154,101	181,445
Washington State U.	83	113,452	123,502	129,255	134,329	126,955	134,889	136,646	152,843	151,133	158,982	154,623	179,536
Oregon State U.	84	135,886	146,882	156,446	149,396	145,247	153,017	158,142	163,479	171,805	168,571	167,494	179,180
Iowa State U.	85	109,461	117,522	118,242	121,993	116,273	114,518	125,397	128,221	147,679	147,866	165,912	169,177
Tufts U.	86	116,699	122,208	121,512	113,450	116,204	121,428	126,109	139,532	139,334	146,630	148,320	166,809
U. Texas Health Science Center, Houston	87	150,324	156,790	146,424	144,235	136,145	125,890	121,098	124,461	128,232	132,647	133,624	165,139
U. Missouri, Columbia	88	116,965	116,403	114,345	111,510	104,910	105,015	126,071	134,525	138,029	139,781	156,190	163,576
SUNY, Stony Brook U.	89	120,146	125,102	123,383	118,513	111,683	115,150	118,549	125,688	136,241	144,618	146,478	162,972
Medical U. South Carolina	90	131,650	143,464	136,907	127,472	118,649	117,255	124,212	134,072	142,639	153,226	153,802	162,394
George Washington U.	91	122,357	116,611	112,110	120,857	141,552	139,016	142,889	148,369	156,768	155,697	157,533	161,349
Virginia Commonwealth U.	92	144,138	153,228	142,053	135,804	138,559	142,447	143,701	147,585	140,363	142,293	152,751	160,995
U. Hawaii, Manoa	93	196,275	201,700	193,722	225,359	206,810	200,202	190,336	182,337	167,030	167,816	163,694	157,772
U. Delaware	94	105,454	118,673	117,072	119,756	116,340	114,245	113,217	117,813	118,573	133,020	144,142	157,725
Temple U.	95	79,939	89,719	90,243	131,872	126,803	129,499	140,775	153,404	155,312	161,673	154,600	153,316
Dartmouth C. and Dartmouth Hitchcock Medical Center	96	118,271	131,583	147,421	155,209	145,498	146,233	139,090	137,448	140,399	137,965	142,219	152,335
Florida State U.	97	134,794	140,850	140,419	148,413	151,701	139,597	126,289	134,278	147,184	149,784	162,296	150,108
Northeastern U.	98	59,074	67,938	77,667	85,170	79,666	80,576	81,124	93,572	114,711	126,762	136,273	143,421
Medical C. Wisconsin	99	121,750	133,929	125,325	116,765	111,241	109,542	108,529	108,276	111,273	119,036	128,783	136,385
U. Tennessee, Knoxville <sup>e</sup>	100	96,972	111,942	112,471	117,836	112,201	105,417	109,722	117,097	117,776	123,434	138,402	135,202
Georgetown U.	101	120,589	123,540	115,197	114,760	100,475	88,015	83,827	94,435	89,977	94,050	98,682	130,419
U. Alaska, Fairbanks	102	99,657	105,469	99,674	94,953	85,904	81,586	89,940	97,314	94,998	92,964	101,414	128,229
U. California, Santa Barbara	103	129,457	136,244	136,352	132,960	121,045	116,232	116,775	117,457	113,388	118,517	123,198	122,168

TABLE 24

**Federally financed higher education R&D expenditures, ranked by FY 2021 R&D expenditures: FYs 2010–21**

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Wayne State U.	104	132,166	134,735	126,915	119,520	113,618	109,586	111,532	109,421	111,018	118,043	113,137	117,976
U. Texas Medical Branch	105	128,840	128,098	109,867	108,287	101,761	98,050	100,464	104,458	104,356	107,806	114,103	117,915
U. Alabama, Huntsville	106	73,075	72,665	78,528	85,738	75,343	67,451	69,824	68,609	74,650	85,211	104,288	116,971
Mississippi State U.	107	106,324	98,998	96,689	74,075	71,715	80,097	87,277	87,928	89,012	104,738	120,616	116,713
U. Massachusetts, Amherst	108	97,937	107,683	115,280	111,448	110,189	103,417	106,269	108,871	110,654	117,359	116,170	116,349
Tulane U.	109	106,872	111,007	101,360	97,994	94,486	84,166	89,087	93,970	102,201	104,219	107,290	113,819
Montana State U., Bozeman	110	93,100	87,528	86,511	73,619	72,777	69,136	68,471	74,788	75,524	88,955	93,759	113,257
U. Nebraska, Medical Center	111	80,784	86,295	84,196	80,750	76,195	71,918	76,221	84,814	93,463	102,604	105,158	111,042
U. Notre Dame	112	62,152	79,716	83,295	79,564	79,690	83,710	87,129	91,787	96,182	106,411	104,030	109,891
Thomas Jefferson U.	113	77,817	80,027	68,976	56,247	54,676	58,536	58,866	62,029	64,869	74,816	74,676	109,448
U. Central Florida	114	69,331	69,098	78,411	76,533	70,716	88,814	87,417	89,904	97,539	99,310	101,332	109,310
U. Texas Health Science Center, San Antonio	115	121,723	121,200	106,177	99,198	89,303	85,940	89,742	85,455	86,956	96,502	102,959	106,824
U. Nebraska, Lincoln	116	98,417	108,059	106,725	100,592	94,265	95,831	95,426	101,532	103,565	109,954	107,299	106,564
Florida International U.	117	62,580	65,446	69,402	72,357	78,961	76,528	76,127	71,579	85,541	96,912	103,366	105,309
George Mason U.	118	63,011	65,301	63,786	65,096	61,877	63,600	58,864	57,345	69,481	96,307	104,070	103,712
U. Vermont	119	98,635	101,471	87,843	85,118	79,743	83,733	83,124	78,394	86,940	90,405	97,981	103,554
Louisiana State U., Baton Rouge	120	97,407	97,517	92,551	94,563	94,701	83,644	86,754	81,644	84,309	88,721	87,895	103,178
U. New Hampshire	121	84,553	106,806	119,451	102,053	101,125	92,040	93,599	92,338	95,807	90,241	100,373	99,323
U. South Carolina, Columbia	122	125,501	103,296	98,836	91,612	91,890	90,453	93,885	96,048	88,602	102,992	97,143	97,193
U. California, Riverside	123	63,127	62,312	63,821	59,065	57,397	63,515	70,489	76,795	77,314	81,151	92,503	97,182
U. Louisville	124	93,260	96,010	89,976	78,144	65,849	68,345	72,644	72,119	80,511	87,563	88,251	97,179
Rockefeller U.	125	88,705	97,710	84,616	80,384	81,820	81,949	80,667	86,763	87,231	84,566	86,280	96,318
Rice U.	126	69,395	78,730	76,964	80,075	73,965	74,266	83,273	84,469	78,175	83,584	88,768	95,648
Drexel U.	127	77,438	83,702	87,860	76,343	77,684	69,462	67,020	70,921	82,777	85,278	82,576	93,517
Auburn U., Auburn	128	53,971	59,559	55,557	57,253	50,088	48,352	54,751	55,700	58,488	64,333	73,468	91,157
Clemson U.	129	62,934	52,919	51,764	52,002	49,887	53,136	60,165	70,256	73,735	81,080	82,203	89,883
West Virginia U.	130	79,415	88,419	82,149	74,704	69,165	68,731	72,751	72,767	76,527	82,353	79,657	89,802
U. California, Santa Cruz	131	84,518	97,817	94,222	91,002	90,858	92,870	95,294	66,563	63,197	74,669	76,468	86,263
U. Arkansas for Medical Sciences	132	72,217	75,924	69,883	64,856	55,556	50,603	48,999	51,298	57,523	63,498	70,508	83,387
U. Oregon	133	76,378	84,997	86,316	75,423	74,603	69,723	66,850	69,598	71,568	80,083	81,278	82,242
Georgia State U.	134	27,073	28,210	34,075	37,521	42,259	50,122	52,351	71,248	71,650	70,185	78,199	79,834
U. Rhode Island	135	62,981	78,303	83,754	74,870	65,715	64,711	61,641	62,785	64,026	73,080	67,242	78,923
Kansas State U.	136	68,560	76,953	77,689	70,167	67,438	69,918	71,224	75,468	80,436	81,269	79,100	77,779
U. Houston	137	52,920	59,580	55,812	61,038	58,954	58,458	62,703	60,033	63,801	68,523	71,779	77,489
Wichita State U.	138	13,751	20,569	19,078	13,434	10,424	7,728	10,442	21,685	18,706	29,634	53,540	77,427
U. Nevada, Reno	139	58,115	57,220	55,437	56,900	53,363	51,724	53,371	54,782	62,635	62,903	64,793	77,246

TABLE 24

**Federally financed higher education R&D expenditures, ranked by FY 2021 R&D expenditures: FYs 2010–21**

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
New Jersey Institute of Technology	140	50,051	54,250	59,398	57,466	54,655	55,094	67,490	79,397	91,999	89,846	85,746	77,057
U. Mississippi	141	71,475	74,918	74,955	64,590	64,218	59,978	64,510	62,483	63,736	73,865	82,361	76,886
Rush U.	142	51,304	57,978	57,512	57,063	53,501	52,193	50,332	51,532	64,178	68,941	65,343	73,279
U. Montana, Missoula	143	40,760	38,565	35,984	34,021	30,319	33,718	38,753	44,534	54,708	55,566	62,067	70,686
U. Louisiana, Lafayette	144	12,881	14,659	13,848	11,090	10,666	15,799	16,893	23,895	28,874	34,400	40,044	65,436
U. Maine	145	50,163	59,800	39,661	34,252	50,589	35,369	34,277	37,321	45,348	51,049	54,376	65,249
New Mexico State U.	146	98,399	90,598	90,722	86,806	80,599	78,903	62,292	59,885	54,009	58,022	60,971	64,699
Augusta U.	147	na	na	na	47,913	47,771	50,585	50,294	48,921	48,800	47,031	55,797	61,943
Colorado School of Mines	148	29,892	33,789	33,481	32,399	34,781	34,266	35,677	37,505	40,161	49,603	55,560	61,421
U. Maryland, Baltimore County	149	59,448	61,172	45,014	44,662	47,538	47,954	50,984	52,014	53,522	56,993	59,391	59,882
U. North Dakota	150	52,504	54,058	54,476	46,491	40,340	37,697	42,425	43,262	51,050	49,700	44,153	58,463
U. Texas, Dallas	151	30,754	33,216	35,297	33,920	32,699	31,068	35,451	36,097	40,046	48,466	55,983	58,249
Cold Spring Harbor Laboratory	152	ne	51,529	43,874	41,002	41,845	49,063	50,478	54,260	67,139	73,854	62,215	56,907
SUNY, U. Albany	153	124,324	125,189	112,989	114,158	105,333	79,681	77,734	85,469	87,451	92,709	67,039	56,425
U. Tennessee, Health Science Center	154	52,652	51,842	48,473	42,269	41,830	39,356	38,374	39,138	39,421	42,396	48,264	56,021
Naval Postgraduate School	155	93,605	94,278	127,049	91,134	96,573	78,780	56,045	47,082	44,140	54,358	51,870	54,855
U. Wyoming	156	45,323	48,932	57,441	53,971	42,280	48,970	63,951	56,410	42,595	52,082	57,353	54,444
U. Alabama, Tuscaloosa	157	26,364	32,999	33,023	28,375	26,161	28,988	28,425	27,692	30,447	37,916	43,017	53,880
Rensselaer Polytechnic Institute	158	54,847	59,284	62,341	60,870	59,070	59,528	52,163	51,130	50,120	50,448	52,150	52,465
Brandeis U.	159	43,669	48,235	44,532	45,337	47,532	47,841	48,273	46,108	38,632	41,475	41,440	52,147
U. Idaho	160	46,303	54,243	55,115	53,986	50,638	50,559	51,295	50,935	51,172	51,529	51,450	51,021
U. Arkansas, Fayetteville	161	33,674	37,587	34,189	30,625	26,111	34,288	40,642	46,490	52,937	50,875	47,454	48,534
U. Massachusetts, Lowell	162	25,550	27,960	26,786	27,360	28,654	31,059	27,694	29,471	30,086	35,309	41,304	48,179
Oklahoma State U., Stillwater	163	56,998	81,855	85,876	44,200	36,687	38,585	42,976	44,977	43,421	39,880	39,873	47,428
Cleveland State U.	164	25,024	42,575	46,645	50,243	44,233	41,851	49,925	52,541	55,468	51,475	53,756	47,402
U. Texas, Arlington	165	31,628	30,659	33,150	30,815	24,857	27,712	26,664	33,111	36,027	41,764	44,950	46,946
U. Southern Mississippi	166	37,054	40,984	37,524	28,694	26,163	25,005	25,482	27,661	31,815	46,924	42,870	44,401
U. Texas, El Paso	167	34,617	35,399	40,024	38,253	35,304	41,897	42,423	44,811	44,352	41,261	39,126	43,930
San Diego State U.	168	56,504	64,056	56,797	51,274	50,542	46,870	44,495	39,417	39,453	39,515	41,117	43,473
U. Texas, San Antonio	169	28,717	31,972	32,672	29,078	23,066	23,511	25,813	29,947	29,824	34,588	34,334	42,952
North Dakota State U.	170	51,883	53,451	46,490	38,453	36,277	35,482	35,590	34,923	35,122	35,322	31,614	42,824
Northern Arizona U.	171	15,070	17,765	16,015	15,638	18,209	20,285	23,442	26,035	29,648	35,980	39,387	41,744
Michigan Technological U.	172	27,676	32,724	33,189	32,086	30,588	28,692	29,774	28,483	32,606	34,709	36,172	41,505
Saint Louis U.	173	33,728	38,323	35,873	31,645	30,071	27,580	26,813	27,436	28,121	34,275	34,419	41,411
Florida A&M U.	174	45,856	44,905	42,937	39,675	36,570	36,975	37,363	30,383	32,422	35,362	33,136	36,761
Howard U.	175	33,017	36,060	37,690	33,966	32,663	38,820	33,441	34,762	33,602	29,978	29,256	35,443

TABLE 24

**Federally financed higher education R&D expenditures, ranked by FY 2021 R&D expenditures: FYs 2010–21**

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Mercer U.	176	18,778	17,904	19,963	19,411	19,666	21,563	21,120	19,772	18,999	27,035	31,572	34,413
Louisiana State U., Health Sciences Center, New Orleans	177	46,142	45,581	40,637	36,886	34,637	36,027	31,526	28,018	26,988	31,290	31,381	34,272
Boston C.	178	33,290	31,953	30,855	27,975	25,115	23,352	27,033	30,448	30,541	32,475	31,038	34,257
CUNY, City C.	179	32,900	40,595	39,572	40,094	40,095	38,434	37,525	35,429	36,866	33,065	30,106	34,218
Syracuse U.	180	33,796	33,850	33,156	27,729	29,404	32,378	36,106	39,781	39,538	37,803	31,861	34,200
Stevens Institute of Technology	181	29,370	32,570	27,420	24,812	23,656	25,980	28,999	26,855	26,281	28,342	33,461	33,998
Texas Tech U.	182	35,970	35,191	29,969	28,827	33,137	32,987	32,405	31,347	31,357	35,136	31,475	33,938
U. Puerto Rico, Medical Sciences Campus	183	29,813	54,381	35,173	31,037	30,197	31,889	33,348	29,869	30,597	34,570	27,033	33,262
U. Toledo	184	38,389	44,881	41,072	40,497	34,684	27,085	27,802	24,167	25,323	28,273	27,770	32,601
U. North Texas, Health Science Center	185	25,847	26,132	26,627	24,187	21,943	22,422	27,163	26,368	27,579	27,260	25,917	32,464
U.S. Air Force Academy	186	49,711	62,118	43,431	45,169	34,669	30,637	46,958	40,062	27,973	35,294	33,554	31,818
Boise State U.	187	14,614	18,811	20,070	16,117	15,746	18,296	16,953	19,806	24,918	24,493	26,914	31,357
Rochester Institute of Technology	188	23,254	20,396	19,394	18,379	19,465	20,147	26,149	27,311	25,990	26,359	28,092	31,187
Texas State U.	189	8,904	10,319	11,950	14,908	14,243	18,289	21,049	25,132	30,314	29,614	26,950	31,116
San Jose State U.	190	24,292	26,389	24,153	27,780	32,901	33,782	31,318	31,396	33,886	35,143	34,102	30,877
Brigham Young U., Provo	191	22,115	24,273	22,069	23,639	24,490	24,250	28,453	26,441	23,892	23,901	24,632	30,439
Indiana U.-Purdue U., Indianapolis	192	148,672	156,607	166,825	152,578	143,386	18,479	19,954	20,035	22,834	27,349	31,862	30,290
Worcester Polytechnic Institute	193	13,582	15,714	12,968	17,003	19,643	26,327	25,976	19,566	18,635	22,964	26,074	30,166
William & Mary	194	27,685	30,361	32,526	31,628	33,320	33,129	34,133	32,760	33,503	31,983	30,436	29,928
Portland State U.	195	36,996	41,580	42,662	40,377	33,523	29,987	32,021	32,727	31,234	33,055	31,315	29,842
Lehigh U.	196	23,721	22,390	23,312	24,831	24,271	22,910	21,429	25,228	25,834	26,554	26,816	29,051
Florida Atlantic U.	197	17,268	15,579	17,226	13,555	13,234	11,574	15,356	17,172	18,771	21,667	23,695	28,510
SUNY, Downstate Health Sciences U.	198	25,023	33,964	34,884	31,972	25,802	20,779	25,941	22,496	26,302	26,914	26,454	27,620
U. Nevada, Las Vegas	199	32,441	30,457	25,068	24,502	26,950	27,493	25,613	29,172	33,727	28,381	29,252	27,178
U. North Carolina, Charlotte	200	17,284	15,930	19,230	20,994	19,069	19,132	20,269	20,462	22,386	26,199	27,618	27,145
Air Force Institute of Technology	201	15,474	20,196	19,579	18,739	16,782	16,727	19,796	25,588	23,393	21,856	22,854	27,025
Loyola U., Chicago	202	28,995	28,633	28,530	33,074	31,189	28,200	25,363	23,324	21,994	23,562	24,018	26,793
Missouri U. of Science and Technology	203	28,239	27,961	23,731	25,571	21,811	17,632	18,833	19,567	21,835	22,426	22,860	26,164
North Carolina Agricultural and Technical State U.	204	23,883	22,652	22,477	21,663	23,373	22,413	21,112	24,496	24,874	23,863	22,338	25,755
Old Dominion U.	205	34,687	39,534	38,555	39,963	41,270	40,002	39,743	42,412	32,584	31,355	30,330	25,514
SUNY, Polytechnic Institute	206	na	na	na	na	21,208	14,641	21,380	41,252	41,795	38,245	27,998	25,427
Morehouse School of Medicine	207	25,855	28,128	31,786	34,511	33,020	30,012	28,678	28,792	24,326	22,461	22,500	25,181
SUNY, Upstate Medical U.	208	27,959	28,663	27,013	23,730	21,334	19,213	18,942	19,991	20,391	22,028	23,940	24,974
New Mexico Institute of Mining and Technology	209	42,243	37,316	29,894	23,581	33,245	20,018	17,017	18,358	19,560	22,864	22,922	24,900
Illinois Institute of Technology	210	28,349	34,858	27,767	28,319	25,679	25,826	23,821	26,330	28,265	28,827	24,244	24,762
U. North Carolina, Greensboro	211	19,477	20,868	16,530	13,658	13,489	14,978	17,902	17,354	17,016	18,923	20,447	24,423

TABLE 24

## Federally financed higher education R&amp;D expenditures, ranked by FY 2021 R&amp;D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
U. Wisconsin-Milwaukee	212	29,042	30,479	28,862	26,450	25,377	25,587	25,651	23,916	24,612	23,342	25,354	24,397
U. South Alabama	213	14,730	16,758	13,816	13,743	14,353	15,106	17,628	16,627	15,098	19,947	21,825	23,758
U. Massachusetts, Boston	214	24,527	26,958	33,275	24,924	27,715	28,653	30,608	29,934	30,412	25,083	27,575	23,673
U. Denver	215	13,364	14,042	11,779	15,089	14,202	12,048	11,029	11,648	15,713	22,012	24,753	23,415
SUNY, Binghamton U.	216	20,979	21,244	21,162	17,715	14,843	16,171	18,562	20,639	23,392	24,213	24,564	23,225
CUNY, Hunter C.	217	18,498	22,901	24,265	22,512	19,268	19,193	20,037	18,705	21,766	23,485	26,025	23,166
Catholic U. of America	218	15,878	19,890	17,608	17,310	17,205	19,900	19,928	19,857	20,749	21,642	22,503	23,128
East Carolina U.	219	16,113	19,675	17,838	18,227	17,409	15,079	13,073	11,526	12,611	17,428	20,168	22,813
Van Andel Research Institute	220	ne	ne	ne	ne	ne	8,138	11,970	13,108	14,285	18,259	18,538	22,231
U. Memphis	221	20,654	20,348	22,142	18,619	21,898	18,825	18,098	18,185	25,166	18,370	18,063	21,578
U. Missouri, Kansas City	222	16,391	18,988	17,522	15,774	15,178	13,327	13,081	11,296	10,596	18,624	22,320	21,203
U. Nebraska, central administration	223	ne	ne	ne	ne	ne	ne	ne	ne	13,200	18,523	23,104	20,675
Tennessee State U.	224	7,414	8,369	10,240	9,872	12,016	11,145	12,291	10,557	10,291	8,962	19,272	20,378
Wright State U.	225	24,785	27,422	25,552	26,888	27,838	26,931	30,162	35,533	43,644	41,428	35,321	19,617
Ohio U.	226	18,466	23,051	20,780	20,203	16,597	17,303	14,678	16,393	13,961	14,802	15,543	19,164
U. North Texas, Denton	227	14,444	14,754	18,043	16,515	16,318	15,470	12,621	15,668	19,026	17,345	13,653	18,702
U. California, Merced	228	9,392	10,140	11,052	10,983	10,509	12,648	12,206	14,923	14,385	16,850	20,000	18,621
South Dakota State U.	229	38,368	41,904	41,975	33,231	29,524	28,670	29,633	28,003	27,129	29,683	22,531	18,607
Ponce Health Sciences U.	230	7,569	9,318	10,486	6,249	4,960	6,729	6,951	7,108	6,386	8,339	11,228	18,284
Southern Methodist U.	231	13,312	18,502	16,640	14,274	20,611	14,324	15,587	14,464	13,439	17,869	17,752	17,886
Rowan U.	232	2,062	2,108	2,349	1,926	4,591	4,674	5,252	7,110	9,602	12,064	15,551	17,400
Desert Research Institute	233	28,307	28,489	27,294	22,814	19,932	16,511	18,883	18,839	17,911	16,745	15,791	16,641
Delaware State U.	234	10,154	12,822	11,305	11,837	12,464	12,091	15,260	14,693	13,007	12,179	14,319	16,460
Morgan State U.	235	10,039	9,884	15,408	13,357	14,144	12,805	14,343	13,328	11,603	11,952	14,101	16,319
Rutgers, State U. New Jersey, Newark	236	12,631	18,226	20,588	16,295	12,520	12,611	13,737	16,617	17,516	15,397	16,196	16,281
San Francisco State U.	237	15,601	17,337	17,075	19,024	17,129	14,336	12,804	14,817	14,388	15,675	15,834	15,993
Tuskegee U.	238	12,309	12,397	12,633	16,789	14,145	12,267	10,388	10,388	10,388	14,825	15,122	15,424
Kent State U.	239	14,586	15,085	14,882	11,506	11,181	11,158	10,013	10,524	11,118	13,350	15,004	15,179
U. Puerto Rico, Rio Piedras	240	21,717	24,887	25,407	17,946	18,262	18,922	15,892	11,512	10,028	13,943	14,071	15,108
U. Alaska, Anchorage	241	9,368	9,858	10,760	9,686	7,824	8,575	11,867	12,681	13,597	14,219	15,290	15,079
Embry-Riddle Aeronautical U.	242	8,241	11,444	14,048	11,456	13,030	10,049	14,135	10,525	12,661	8,970	11,542	14,859
Eastern Virginia Medical School	243	29,291	25,319	24,694	28,728	28,532	28,637	21,459	21,209	21,356	19,408	15,748	14,774
U. Guam	244	4,962	5,391	5,448	5,554	6,599	5,586	6,621	8,067	8,597	9,339	9,722	14,316
U. Maryland Center for Environmental Science	245	12,123	18,007	16,081	16,852	13,202	14,096	13,957	15,069	15,008	17,476	15,498	14,072
Jackson State U.	246	39,457	43,001	39,511	29,700	21,677	19,656	20,854	20,136	17,385	16,259	13,662	14,038
California State U., Northridge	247	17,213	19,769	24,837	7,906	11,309	12,060	13,442	14,756	15,892	16,939	17,261	13,989

TABLE 24

## Federally financed higher education R&amp;D expenditures, ranked by FY 2021 R&amp;D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Western Michigan U. and Homer Stryker M.D. School of Medicine	248	19,738	18,736	14,378	12,322	11,334	11,869	12,287	10,565	10,828	14,399	13,187	13,944
Marquette U.	249	9,381	11,291	9,968	8,756	8,191	9,320	10,298	10,111	10,672	12,792	13,187	13,918
Meharry Medical C.	250	24,302	26,779	23,467	21,135	17,754	13,068	13,528	15,613	14,515	16,443	12,573	13,784
U.S. Military Academy	251	22,146	13,799	12,227	11,630	14,819	15,312	13,500	13,430	13,393	10,528	8,406	13,708
U. Nebraska, Omaha	252	6,014	6,333	5,980	5,693	5,687	6,066	7,180	7,486	7,939	8,807	9,996	13,503
U. West Florida	253	11,038	13,156	12,858	12,927	11,593	10,935	9,841	10,127	8,634	11,506	12,369	13,313
Albany Medical C.	254	15,758	13,884	11,845	10,278	9,716	9,481	10,714	11,040	10,243	11,827	12,940	13,166
U. of the Virgin Islands	255	28,369	16,338	22,605	15,627	14,992	19,456	20,951	10,968	10,852	10,445	11,787	13,099
U. Puerto Rico, Mayaguez	256	12,735	18,568	19,949	14,414	14,162	15,700	14,446	13,604	14,111	15,653	15,842	13,073
Florida Institute of Technology	257	9,175	7,637	7,500	7,543	8,581	8,315	9,500	8,465	8,511	10,352	10,999	13,049
U. Texas Rio Grande Valley	258	na	na	na	na	na	na	16,892	14,808	13,330	13,629	13,093	13,018
Marshall U.	259	18,218	21,852	13,154	13,472	12,712	11,154	9,158	9,064	8,584	9,617	11,078	12,854
U. Hawaii, system office	260	ne	ne	ne	ne	ne	ne	ne	ne	12,328	12,052	13,367	12,688
Southern Illinois U., Carbondale	261	22,209	23,696	22,055	18,398	16,288	14,895	14,574	13,421	12,733	12,625	12,735	12,655
CUNY, Queens C.	262	13,642	15,573	14,897	15,443	16,460	14,080	14,275	11,884	12,390	13,457	12,726	12,386
Louisiana State U., Health Sciences Center, Shreveport	263	13,890	15,316	13,504	11,753	8,490	6,321	6,478	7,055	9,235	12,185	11,452	12,359
CUNY, Graduate School of Public Health and Health Policy	264	na	na	na	na	na	na	na	na	5,080	5,572	8,722	12,254
Texas Tech U., Health Sciences Center	265	12,950	14,790	13,944	14,820	9,853	10,251	10,384	9,143	7,546	11,345	13,043	12,148
American U.	266	8,841	9,208	7,515	10,421	9,427	9,449	9,554	8,800	13,013	15,229	16,123	12,076
U. Texas Health Science Center, Tyler	267	ne	ne	ne	ne	ne	3,713	3,757	5,792	6,438	7,084	7,732	12,007
U. Colorado Denver <sup>c</sup>	268	na	na	na	na	na	na	na	na	na	na	na	11,866
CUNY, Advanced Science Research Center	269	na	na	na	na	na	257	ne	2,355	4,027	6,859	9,208	11,840
U. Baltimore	270	1,812	3,288	3,386	2,906	2,947	2,998	3,769	4,289	7,431	9,103	11,748	11,692
U. South Dakota	271	16,467	14,490	14,088	15,274	12,162	9,214	8,832	11,134	12,523	13,367	13,034	11,664
South Dakota School of Mines and Technology	272	25,172	28,105	14,480	7,853	7,078	9,286	10,370	10,639	10,240	9,283	10,659	11,587
Hampton U.	273	14,455	12,292	15,356	12,620	11,153	14,735	14,201	16,249	14,170	13,390	11,278	11,517
Xavier U. Louisiana	274	5,669	6,673	7,177	5,856	7,078	7,735	10,503	10,939	10,165	8,679	9,680	11,213
California State U., Long Beach	275	12,731	12,055	11,379	10,701	7,879	6,198	11,176	13,085	14,021	13,579	12,014	11,178
California Polytechnic State U., San Luis Obispo	276	11,637	8,658	10,125	10,280	9,087	9,796	11,276	10,535	9,613	9,720	10,178	11,163
Baylor U.	277	2,947	3,704	3,513	3,510	4,062	3,878	4,244	5,265	5,782	6,955	8,851	11,025
Texas A&M U.-Corpus Christi	278	7,869	7,506	5,446	6,129	7,176	9,491	8,669	10,259	12,815	14,451	13,349	10,967
New York Medical C.	279	21,095	21,013	16,471	13,806	11,421	11,326	10,772	9,000	8,141	11,061	12,106	10,739
North Carolina Central U.	280	6,870	9,496	11,076	8,253	9,757	10,874	10,455	11,977	12,947	13,503	12,787	10,676
Nova Southeastern U.	281	5,718	6,904	6,653	5,379	5,992	5,896	7,381	7,979	7,853	8,965	10,452	10,386

TABLE 24

**Federally financed higher education R&D expenditures, ranked by FY 2021 R&D expenditures: FYs 2010–21**

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
U.S. Naval Academy	282	10,750	10,243	9,322	10,482	10,416	8,978	11,016	12,963	13,331	12,991	12,577	10,247
Loma Linda U.	283	29,284	32,187	24,884	26,253	19,088	21,082	16,118	15,192	13,923	12,654	11,385	10,116
Northeast Ohio Medical U.	284	4,009	4,081	3,816	5,244	6,582	7,607	9,181	10,043	9,743	10,107	10,684	9,999
Charles R. Drew U. of Medicine and Science	285	20,430	20,679	19,733	17,144	19,412	12,992	12,089	14,461	10,198	10,427	9,863	9,945
Illinois State U.	286	5,442	4,586	3,833	3,902	5,213	4,424	5,630	5,355	6,312	9,827	8,719	9,787
Prairie View A&M U.	287	8,623	11,058	10,569	9,077	8,278	7,994	7,952	8,722	8,421	9,346	9,249	9,566
Miami U.	288	13,591	13,210	13,418	12,676	12,048	10,008	9,189	9,093	9,627	9,755	10,473	9,412
Rosalind Franklin U. of Medicine and Science	289	8,350	9,317	10,084	11,202	9,754	9,368	8,478	8,828	9,249	8,865	8,504	9,357
California State U., East Bay	290	643	921	536	310	ne	ne	479	ne	ne	ne	2,348	9,275
Texas A&M U.-Kingsville	291	7,088	6,280	6,480	7,002	8,678	7,080	7,475	7,869	7,459	8,419	9,610	9,265
Northern Illinois U.	292	17,334	11,807	12,861	12,415	9,174	9,158	9,957	7,947	8,903	8,610	8,030	9,080
U. Akron	293	12,107	12,962	16,768	19,658	20,263	14,676	25,433	16,395	12,470	11,796	10,574	9,024
Missouri State U.	294	6,071	4,764	3,697	3,132	3,132	3,165	2,675	2,770	3,995	5,076	12,310	8,931
California State U., San Marcos	295	4,106	4,827	5,548	6,271	6,091	4,573	5,273	5,594	7,497	9,134	11,547	8,831
Creighton U.	296	11,850	14,140	14,270	13,569	11,690	9,359	10,619	7,946	5,721	8,265	7,583	8,585
Chapman U.	297	1,871	1,576	1,733	2,379	2,373	2,790	3,357	3,598	4,057	5,738	7,850	8,574
Teachers C., Columbia U.	298	6,533	8,526	10,173	8,494	8,909	12,775	11,635	10,194	8,925	8,054	7,614	8,521
East Tennessee State U.	299	6,272	7,705	8,052	6,909	5,484	5,135	5,658	5,933	7,168	7,688	7,329	8,358
U. Maryland, Eastern Shore	300	8,583	8,587	6,965	8,511	8,902	9,284	7,853	7,265	4,890	6,983	8,084	8,346
U. Massachusetts, Dartmouth	301	12,236	13,657	10,979	8,860	8,549	7,321	6,548	7,370	7,156	7,353	6,506	8,223
Tennessee Technological U.	302	7,490	6,397	4,674	3,999	3,725	3,578	4,076	4,969	5,390	6,153	6,471	7,625
St. Edward's U.	303	ne	6,899	5,500	5,500	2,250	8,000	7,500	7,989	7,289	6,500	7,700	7,600
Alcorn State U.	304	9,256	8,655	8,598	8,321	7,447	6,784	6,387	8,634	7,372	7,540	7,023	7,593
Oakland U.	305	7,130	9,178	9,185	7,605	6,885	6,161	6,198	6,418	5,777	6,690	5,068	7,426
California State U., Los Angeles	306	7,234	8,426	6,847	7,065	4,923	4,291	3,804	6,612	8,586	9,288	8,380	7,342
U. North Florida	307	4,636	5,082	3,760	1,424	1,177	1,198	1,356	1,435	3,818	4,017	4,568	7,267
Bowling Green State U.	308	4,963	6,164	7,005	9,323	6,576	5,544	6,229	6,395	6,056	5,852	6,397	7,263
Clarkson U.	309	9,573	9,531	7,061	5,283	5,476	5,440	6,183	6,819	8,203	8,551	7,095	7,246
Idaho State U.	310	14,645	17,149	16,095	13,206	11,091	11,738	11,926	11,184	10,081	7,547	7,849	7,216
SUNY, C. of Environmental Science and Forestry	311	8,907	8,732	8,557	8,382	5,564	7,784	8,313	7,730	6,873	7,743	7,809	6,979
U. Arkansas, Little Rock	312	7,571	8,615	8,104	6,848	5,188	4,259	4,934	4,756	5,764	6,688	7,289	6,939
Central Michigan U.	313	2,536	4,841	5,055	5,464	6,187	5,464	5,387	5,557	7,130	8,100	7,450	6,919
U. North Carolina, Wilmington	314	14,364	14,218	11,571	9,133	6,063	5,819	5,966	5,990	5,732	7,174	6,783	6,852
U. of the District of Columbia	315	1,946	2,313	2,430	2,168	1,627	1,434	2,451	2,659	2,021	3,283	2,664	6,851
Louisiana Tech U.	316	10,806	11,952	9,835	8,881	7,742	5,776	5,455	5,608	5,801	6,564	7,167	6,428
Montana Technological U.	317	5,321	4,999	3,293	3,507	3,202	3,420	3,916	5,019	4,691	4,926	4,322	6,133



TABLE 24

**Federally financed higher education R&D expenditures, ranked by FY 2021 R&D expenditures: FYs 2010–21**

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Alabama A&M U.	318	22,154	22,120	22,086	22,052	22,018	21,982	18,556	15,130	11,704	8,277	5,643	5,967
U. Tulsa	319	7,126	7,970	6,782	6,279	5,773	6,384	6,426	5,905	4,615	4,142	4,697	5,876
California State U., San Bernardino	320	3,394	9,953	7,251	6,190	6,414	5,959	6,348	6,565	7,920	8,651	5,886	5,867
Villanova U.	321	6,367	6,817	5,518	4,218	5,008	4,572	4,334	4,048	3,968	4,085	4,921	5,826
U. Missouri, Saint Louis	322	7,151	10,157	9,650	7,868	5,844	4,369	4,959	5,240	6,364	7,059	6,146	5,812
Sam Houston State U.	323	5,066	3,855	2,717	2,360	2,209	1,491	1,830	1,872	2,200	3,723	4,764	5,632
Lincoln U., Jefferson City	324	5,984	7,084	6,306	4,989	5,460	5,492	4,953	4,148	2,498	2,700	3,636	5,621
Western U. of Health Sciences	325	885	914	1,300	1,163	1,545	1,206	2,391	2,725	2,755	3,035	4,486	5,620
California State U., Sacramento	326	5,829	6,965	5,663	7,546	5,241	5,697	5,619	6,894	6,392	5,801	5,693	5,582
Texas Southern U.	327	5,240	4,899	4,924	4,741	3,512	3,458	3,269	3,674	2,839	3,238	6,249	5,562
Naval War C.	328	ne	ne	2,938	2,700	2,736	2,653	3,210	3,797	4,384	5,060	5,944	5,542
U. Hawaii, Hilo	329	12,265	7,150	20,726	15,391	8,603	12,772	9,402	5,461	5,264	4,924	5,274	5,510
Clark Atlanta U.	330	7,229	7,040	8,447	7,576	7,241	7,455	6,048	5,811	5,634	5,689	5,324	5,355
U. Minnesota, Duluth	331	6,441	8,564	7,597	7,264	5,940	10,025	8,055	6,033	5,520	7,143	6,454	5,325
Duquesne U.	332	5,904	5,991	5,723	4,343	4,670	5,004	5,809	5,759	5,762	4,552	4,981	5,020
Rhode Island C.	333	ne	2,404	9,060	8,976	6,960	7,258	3,928	3,831	3,337	3,332	4,128	4,894
Virginia State U.	334	5,552	6,035	6,999	6,212	5,424	4,951	5,204	4,779	5,655	6,636	5,642	4,846
Winston-Salem State U.	335	ne	1,179	1,977	841	ne	ne	1,356	1,575	1,629	2,011	4,498	4,841
U.S. Army War C.	336	ne	ne	ne	ne	ne	ne	ne	ne	ne	4,418	ne	4,662
Tarleton State U.	337	6,379	6,036	5,086	3,525	3,683	3,927	4,495	4,602	4,288	4,632	4,139	4,620
California State U., Fullerton	338	13,651	16,159	12,440	11,716	6,932	4,784	3,815	4,237	4,981	4,340	4,121	4,551
Morehouse C.	339	7,857	8,460	9,063	9,226	6,919	5,944	4,301	3,667	4,531	4,494	4,825	4,533
DePaul U.	340	3,896	4,629	4,827	4,260	5,023	4,622	4,623	5,424	4,532	4,464	5,156	4,518
U. Tennessee, Chattanooga	341	4,866	2,932	3,202	2,056	1,501	1,949	1,092	1,144	1,490	2,393	3,915	4,507
CUNY, Brooklyn C.	342	5,358	7,098	6,578	5,999	6,548	5,771	5,995	5,244	4,280	4,465	4,651	4,505
Florida Gulf Coast U.	343	9,542	10,328	5,146	4,800	4,609	4,501	4,442	3,746	3,164	3,773	5,304	4,467
Texas Christian U.	344	3,373	3,924	4,998	5,870	5,779	4,732	3,617	4,035	3,198	2,866	3,168	4,448
Fort Valley State U.	345	4,586	3,452	3,334	3,329	4,249	4,079	4,844	5,068	3,700	4,434	4,806	4,429
California State Polytechnic U., Pomona	346	2,563	2,978	2,635	2,996	2,165	1,881	2,199	3,231	4,297	3,555	5,514	4,396
Western Washington U.	347	4,594	4,661	3,891	3,789	4,039	4,546	4,701	5,271	4,393	3,978	3,966	4,290
Arkansas State U., Jonesboro	348	6,194	8,644	9,645	6,360	3,958	4,347	4,826	4,396	4,371	4,876	4,712	4,249
Central State U.	349	2,544	3,528	3,390	2,688	2,000	1,508	1,546	1,491	2,299	2,517	3,097	4,165
Middle Tennessee State U.	350	2,651	2,669	4,553	2,585	1,564	2,302	3,535	2,513	2,391	2,473	3,062	4,150
Montclair State U.	351	1,876	2,629	3,593	3,410	2,533	2,716	2,649	2,163	3,505	4,164	3,782	4,146
C. Charleston	352	11,610	5,056	6,277	6,385	5,051	6,200	6,269	5,870	4,376	4,395	3,087	4,126
West Virginia State U.	353	2,759	3,193	3,945	3,316	6,006	5,562	4,126	5,072	5,361	4,592	3,993	4,119

TABLE 24

**Federally financed higher education R&D expenditures, ranked by FY 2021 R&D expenditures: FYs 2010–21**

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
California State U., Fresno	354	3,424	3,795	3,532	2,682	2,921	3,573	3,539	3,511	3,969	2,900	3,117	4,101
Fordham U.	355	4,132	3,925	4,187	4,874	4,258	3,969	5,979	5,761	4,973	4,218	3,831	4,076
U. of Health Sciences and Pharmacy in St. Louis	356	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	3,767	4,063
Wesleyan U.	357	4,496	5,525	4,726	3,930	3,363	3,612	3,493	3,902	4,353	4,793	4,305	4,032
Norfolk State U.	358	5,413	6,462	7,739	5,523	6,492	5,104	7,230	7,101	6,912	8,046	7,148	3,976
U. Arkansas, Pine Bluff	359	3,947	4,696	4,540	4,550	3,875	3,912	4,233	3,747	3,683	4,299	4,393	3,960
U. Colorado Colorado Springs	360	6,699	5,805	3,540	3,407	4,018	4,244	3,976	4,525	4,094	3,072	3,508	3,942
Fisk U.	361	7,686	4,631	4,058	6,307	8,557	9,050	9,544	4,327	2,781	4,615	3,811	3,940
South Carolina State U.	362	6,334	8,630	10,926	8,770	6,614	4,456	4,556	14,300	14,938	3,659	3,796	3,933
U. Detroit Mercy	363	633	856	508	ne	317	890	2,565	2,296	4,385	4,936	4,226	3,917
U. New England	364	2,829	3,242	3,359	4,271	4,789	4,862	5,298	5,918	4,976	5,269	5,064	3,864
Southern Illinois U., Edwardsville	365	4,192	4,056	3,172	3,209	2,249	2,175	3,422	3,805	3,209	3,561	3,467	3,844
California State U., Bakersfield	366	637	727	641	1,721	1,140	1,875	1,689	2,466	3,243	4,376	4,486	3,827
California State U., Monterey Bay	367	3,167	4,713	4,341	4,961	3,862	3,459	3,654	3,574	3,607	3,746	3,889	3,813
National Defense U.	368	ne	ne	ne	5,865	7,682	5,542	6,447	6,293	4,276	4,231	4,583	3,786
Southern U. and A&M C., Baton Rouge	369	5,920	6,057	6,194	4,191	3,850	3,258	2,778	2,866	3,431	3,243	2,996	3,770
Colorado C.	370	473	458	389	376	570	602	358	745	429	324	196	3,725
Kentucky State U.	371	3,501	3,146	4,924	3,906	4,335	4,590	5,146	5,382	5,618	4,692	4,456	3,716
U. New Orleans	372	19,244	19,000	14,521	11,051	9,490	7,492	6,826	5,568	5,258	4,353	3,868	3,674
Southern U. and A&M C., Agricultural Research and Extension Center	373	ne	4,049	5,926	3,481	3,363	2,514	2,415	2,736	3,057	3,057	2,085	3,588
Barnard C.	374	2,754	3,325	3,194	2,568	2,373	2,384	3,082	2,777	2,491	2,871	2,800	3,527
CUNY, John Jay C. of Criminal Justice	375	3,418	4,086	3,921	3,546	3,214	3,392	4,625	4,826	5,896	4,971	5,297	3,519
Wellesley C.	376	3,677	2,496	2,902	3,135	3,579	2,980	5,197	3,815	3,947	3,602	4,441	3,469
U. Washington, Tacoma	377	573	406	1,098	1,104	1,577	2,515	2,682	2,042	2,230	2,808	3,075	3,459
CUNY, Lehman C.	378	2,560	2,700	2,215	1,874	2,249	2,394	3,625	3,734	4,478	3,342	3,197	3,382
Georgia Southern U.	379	2,077	1,530	1,359	2,092	3,247	3,004	2,695	2,978	1,805	1,780	1,790	3,373
Salisbury U.	380	1,823	586	1,256	2,342	3,131	2,727	2,414	2,203	1,805	2,290	2,413	3,271
Western Illinois U.	381	658	746	3,855	1,183	735	373	ne	1,198	1,551	1,495	1,801	3,163
Kennesaw State U.	382	1,246	1,054	2,214	3,374	1,413	2,329	1,925	2,085	2,343	2,499	1,983	3,104
Toyota Technological Institute, Chicago	383	ne	496	ne	ne	ne	1,392	1,410	1,581	1,759	1,934	3,038	3,090
Langston U.	384	3,313	3,778	3,957	4,153	5,816	5,621	9,178	8,326	7,474	6,622	9,004	3,089
U. Washington, Bothell	385	446	911	701	825	2,005	2,236	2,863	3,169	2,920	3,353	2,815	2,956
Rutgers, State U. New Jersey, Camden	386	2,001	1,555	1,545	1,750	1,766	2,215	2,653	2,412	1,567	1,096	1,952	2,905
Clark U.	387	3,243	3,801	3,141	2,848	2,751	2,515	2,002	2,513	2,962	3,495	3,350	2,754
Murray State U.	388	2,074	2,471	1,904	816	612	798	564	1,200	1,587	2,639	1,929	2,721

TABLE 24

## Federally financed higher education R&amp;D expenditures, ranked by FY 2021 R&amp;D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Long Island U.	389	630	i 681	i 666	i 655	ne	ne	852	1,615	1,929	1,839	1,349	2,686
Middlebury C.	390	2,245	2,289	2,513	1,856	1,351	1,535	1,736	2,002	1,774	1,558	1,546	2,639
Northwest Indian C.	391	1,943	1,993	i 2,044	2,216	1,705	1,154	i ne	ne	2,037	2,520	2,497	i 2,621
Dakota State U.	392	ne	402	3,555	831	908	765	1,593	1,989	3,273	3,008	3,957	2,603
U. San Diego	393	1,352	1,184	1,903	2,066	2,451	1,836	2,152	2,299	2,397	2,511	2,398	2,554
Pace U.	394	627	952	1,476	1,054	1,212	1,681	2,845	2,423	2,117	2,579	2,997	2,536
MGH Institute of Health Professions	395	ne	408	ne	ne	ne	3,766	2,228	1,839	2,957	3,494	3,014	2,500
CUNY, Graduate Center	396	4,901	3,462	3,191	2,827	2,310	2,106	1,796	i 1,485	2,592	3,009	2,561	2,496
U. Central del Caribe	397	6,504	6,613	6,304	5,946	6,407	6,147	6,290	4,866	2,937	2,705	2,743	2,492
Ball State U.	398	3,988	3,064	3,320	2,440	1,971	2,291	3,253	2,531	3,028	2,929	2,397	2,469
Haverford C.	399	2,715	1,851	1,478	1,547	1,309	1,476	972	1,031	1,665	2,343	2,680	2,455
Smith C.	400	2,843	3,159	2,690	2,853	3,042	3,575	2,634	3,449	3,305	2,892	2,650	2,433
James Madison U.	401	5,563	5,218	6,476	4,617	3,017	2,418	2,203	2,273	1,879	2,717	2,609	2,379
U. Michigan, Dearborn	402	2,932	4,305	2,992	3,300	2,901	1,844	2,172	1,930	1,448	1,850	2,264	2,366
Johnson C. Smith U.	403	ne	ne	ne	ne	ne	ne	1,279	1,469	2,003	1,909	2,230	2,365
Occidental C.	404	665	904	1,079	1,105	1,365	853	1,260	701	901	1,614	1,567	2,348
Western Kentucky U.	404	6,866	6,210	5,712	4,279	3,383	3,450	4,018	3,808	3,162	3,391	3,265	2,348
Alabama State U.	406	13,340	12,340	13,607	1,927	2,236	2,303	2,372	2,253	2,434	2,577	2,582	2,338
U. North Carolina, Asheville	407	1,367	1,770	1,789	1,608	1,176	1,531	2,312	1,851	1,442	1,846	2,405	2,322
Oklahoma State U., Center for Health Sciences	408	817	377	83	61	31	321	748	1,055	1,021	985	2,618	2,304
Pennsylvania State U., Behrend	409	887	1,029	1,232	1,353	1,610	1,510	2,445	1,670	1,025	1,427	543	2,286
Purdue U., Northwest	410	na	na	na	na	na	na	na	4,024	3,205	2,493	1,996	2,280
California State U., Chico	411	1,502	1,317	1,345	1,682	1,169	854	933	581	1,060	1,864	2,520	2,258
Eastern Michigan U.	412	9,088	7,916	7,374	2,428	1,031	1,482	1,627	1,474	1,522	2,135	2,598	2,237
CUNY, C. Staten Island	413	952	1,583	1,470	1,311	1,400	1,222	1,700	1,543	1,982	i 2,421	2,295	2,234
Sonoma State U.	414	690	559	ne	1,800	1,581	964	630	ne	ne	ne	936	2,212
Youngstown State U.	415	2,067	3,304	2,159	1,834	1,876	2,346	1,083	3,257	3,634	2,878	3,308	2,198
West Texas A&M U.	416	2,100	1,347	1,802	1,315	1,551	1,860	1,735	1,338	1,329	1,565	1,542	2,195
Loyola Marymount U.	417	1,731	2,815	1,222	1,357	1,142	819	707	883	1,040	1,185	1,105	2,170
Northern Kentucky U.	418	1,476	1,595	1,483	1,240	1,418	1,342	1,133	1,109	890	1,316	1,462	2,156
Gallaudet U.	419	5,522	4,633	4,335	4,500	3,012	2,340	2,135	2,380	2,259	2,190	1,841	2,140
Seton Hall U.	420	2,206	2,681	1,667	1,694	1,801	1,919	1,975	1,982	3,551	3,982	2,725	2,137
SUNY, C. of Optometry	421	2,829	3,336	3,162	2,757	2,567	2,490	2,487	2,073	1,944	1,823	1,688	2,105
Tougaloo C.	422	2,978	2,753	2,613	2,639	2,285	2,689	2,473	3,030	3,173	3,380	2,102	2,092
Bates C.	423	971	1,485	1,555	1,390	1,114	2,004	1,156	1,053	1,121	1,607	1,885	2,079
Pacific U.	424	845	242	1,767	1,674	1,137	962	1,419	4,058	2,637	3,917	2,596	2,072

TABLE 24

## Federally financed higher education R&amp;D expenditures, ranked by FY 2021 R&amp;D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
U. New Haven	425	ne	1,592	2,471	1,400	954	i 507	2,157	548	3,853	2,786	1,440	2,069
U. Southern Maine	426	9,137	7,752	5,490	4,582	3,821	i 3,060	i 2,299	2,252	2,362	2,551	2,231	2,020
California State U., Dominguez Hills	427	2,658	2,671	2,689	4,235	3,381	i 2,527	2,215	1,238	1,354	1,261	1,433	2,001
U. Northern Iowa	428	1,460	2,294	2,182	2,347	2,094	1,961	2,297	2,154	1,697	2,343	1,881	1,995
Hope C.	429	2,523	2,414	1,912	1,993	2,000	1,436	1,251	1,169	1,100	1,361	1,155	1,992
Fayetteville State U.	430	10,844	10,029	11,187	11,906	10,186	9,243	11,207	2,322	2,445	2,168	1,008	1,988
New York Institute of Technology	430	250	494	1,339	2,527	3,504	2,375	1,607	984	1,501	3,135	1,542	1,988
Humboldt State U.	432	3,024	3,292	3,588	2,829	2,504	3,280	4,455	3,796	3,024	2,103	2,399	1,975
St. John's U., New York	433	1,274	1,263	1,185	872	883	992	940	1,020	1,612	1,666	1,805	1,950
U. Northern Colorado	434	2,082	1,681	1,373	1,024	1,965	1,359	1,962	2,349	2,271	1,966	1,853	1,942
Santa Clara U.	435	3,494	2,019	2,074	1,668	2,039	1,226	1,634	1,468	1,592	1,333	1,522	1,930
Reed C.	436	796	772	678	897	1,125	1,638	1,690	415	1,065	1,423	1,806	1,916
Northeastern Illinois U.	437	448	311	ne	ne	588	ne	ne	1,403	2,442	2,478	2,018	1,913
Albany C. of Pharmacy and Health Sciences	438	1,380	1,634	1,182	1,333	1,643	1,065	380	566	1,094	1,692	1,938	1,900
Saginaw Valley State U.	439	77	525	334	203	ne	223	237	621	1,227	2,339	1,809	1,899
William Paterson U.	440	105	140	ne	ne	ne	ne	564	476	642	1,592	1,896	1,893
Spelman C.	441	2,740	1,833	1,874	1,366	1,185	1,035	1,291	1,227	1,673	2,004	2,136	1,886
U. South Carolina, Aiken	442	122	592	ne	937	759	689	1,155	2,697	2,437	2,379	2,328	1,884
Lamar U.	443	4,377	4,036	3,072	1,616	1,118	352	611	949	1,380	2,641	2,146	1,873
U. Wisconsin-Superior	444	5,197	5,638	i 5,302	i ne	1,949	i ne	ne	ne	1,924	1,527	1,382	1,843
Bowdoin C.	445	1,815	1,942	3,317	3,244	2,330	2,156	2,457	1,812	2,065	1,790	1,862	1,836
Texas Tech U., Health Sciences Center, El Paso	446	ne	ne	ne	ne	5,352	2,893	3,064	2,410	2,532	2,279	1,703	1,831
Savannah State U.	447	1,774	2,518	1,874	2,514	2,127	1,796	2,251	1,390	1,778	1,709	1,804	1,804
Central Washington U.	448	4,038	2,242	1,840	1,263	1,113	1,575	1,580	2,297	1,840	2,159	1,701	1,778
U. Wisconsin-Stevens Point	449	4,456	3,754	i 3,052	2,131	1,740	i 1,349	i 957	1,266	i 1,575	i 1,884	i 2,193	1,776
U. Texas of the Permian Basin	450	677	761	1,179	974	489	595	510	328	50	ne	757	1,762
Towson U.	451	1,806	2,630	1,771	2,015	2,268	2,020	1,616	1,599	2,133	2,144	2,010	1,758
Fort Lewis C.	452	340	511	ne	ne	ne	ne	ne	ne	ne	1,284	1,228	1,746
Hawaii Pacific U.	453	ne	1,261	1,145	850	1,116	789	2,071	1,921	1,905	1,809	1,699	1,741
Skidmore C.	454	1,872	1,562	1,334	1,448	1,193	969	747	1,194	1,893	2,261	1,827	1,739
Palmer C. of Chiropractic, Davenport	455	3,009	3,344	2,906	1,991	1,775	i 1,558	1,485	1,189	1,100	1,100	1,400	1,733
Morehead State U.	456	1,528	1,656	1,597	1,816	1,069	1,217	1,797	2,162	1,839	1,651	1,674	1,727
Citadel Military C. South Carolina	457	ne	157	ne	ne	ne	ne	ne	ne	ne	ne	736	1,714
Western Carolina U.	458	1,296	721	974	664	669	740	873	971	1,038	1,736	1,707	1,697
Bucknell U.	459	2,745	2,747	1,540	1,590	1,725	1,489	1,436	i 1,383	i 1,329	1,764	1,730	i 1,696
Appalachian State U.	460	1,813	2,586	2,287	1,731	2,198	1,796	1,896	2,630	1,922	1,332	1,469	1,694

TABLE 24

## Federally financed higher education R&amp;D expenditures, ranked by FY 2021 R&amp;D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
CUNY, Baruch C.	461	1,010	1,150	1,209	735	695	845	1,325	1,027	1,412	1,359	1,470	1,691
U. Central Arkansas	462	1,658	1,732	1,989	1,898	1,297	1,300	1,138	1,236	1,262	1,462	1,421	1,640
New England C. of Optometry	463	726	1,236	1,685	1,588	533	419	618	ne	837	928	785	1,623
Pennsylvania State U., Harrisburg	464	963	1,302	1,290	701	269	565	270	215	292	80	451	1,616
Elizabeth City State U.	465	5,552	10,402	4,284	4,439	2,461	2,058	1,827	1,306	960	ne	1,455	1,603
Mount Holyoke C.	466	1,362	2,010	1,827	1,863	2,435	2,327	2,848	3,168	2,210	2,074	1,442	1,539
U. Richmond	467	2,138	1,831	2,376	1,979	2,134	2,013	1,924	1,870	1,628	1,575	1,628	1,534
U. Central Oklahoma	468	1,059	1,146	750	765	1,042	3,193	1,409	1,168	1,127	1,457	1,444	1,516
Texas Woman's U.	469	822	1,173	1,908	1,136	961	722	573	945	1,422	1,864	1,700	1,514
Yeshiva U.	470	163,399	197,032	201,397	193,831	186,885	180,791	30,266	816	683	380	772	1,509
Colorado State U., Pueblo	471	364	354	ne	ne	ne	ne	ne	ne	ne	1,282	1,161	1,508
Midwestern U.	472	315	438	427	369	517	654	1,060	1,184	1,278	1,045	936	1,506
Indiana U. Pennsylvania	473	660	833	672	101	169	ne	373	1,309	891	1,810	1,309	1,503
Carleton C.	474	1,803	2,332	2,212	3,347	3,157	3,813	3,508	3,366	2,542	1,891	1,236	1,499
Christopher Newport U.	475	1,049	1,587	1,230	1,083	1,302	1,041	858	957	1,069	1,285	1,365	1,497
Winthrop U.	476	ne	3,440	5,243	7,451	7,955	5,802	1,178	1,189	1,419	1,438	1,563	1,495
Troy U.	477	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,591	1,488
U. Louisiana, Monroe	478	1,470	1,971	1,752	976	1,705	1,479	2,016	1,838	1,789	1,949	2,025	1,465
Harvey Mudd C.	479	2,049	2,594	2,038	2,004	1,457	1,633	2,320	1,521	1,762	1,619	1,748	1,443
Colgate U.	480	1,519	1,058	1,497	1,320	1,153	1,109	1,217	1,096	1,389	1,202	918	1,440
Bryn Mawr C.	481	1,301	1,901	1,848	2,514	1,353	1,713	2,556	2,507	2,242	1,801	1,531	1,429
Grand Valley State U.	482	1,134	1,648	i 2,162	i 2,675	2,151	2,033	1,479	1,543	1,719	1,663	1,831	1,415
Swarthmore C.	483	913	1,029	1,135	1,239	1,292	1,379	1,458	1,451	1,586	1,539	1,041	1,414
Bowie State U.	484	ne	1,910	1,739	1,422	1,761	1,497	1,927	1,813	1,839	1,911	1,967	1,398
Touro U.	485	999	1,558	1,390	1,351	1,374	1,332	1,199	1,196	1,410	1,540	1,558	1,377
Amherst C.	486	1,102	1,992	1,988	i 1,985	1,543	1,835	1,207	1,228	1,630	2,118	1,775	1,375
Franklin and Marshall C.	487	1,857	1,397	1,116	879	889	1,017	955	1,732	1,760	1,582	1,202	1,363
California State U., Stanislaus	488	ne	1,037	1,070	650	341	174	221	478	734	964	1,284	1,354
Trinity C., Hartford	489	1,026	1,217	1,432	1,040	1,313	889	893	2,084	794	1,077	1,019	1,348
U. Nebraska, Kearney	490	289	1,018	716	840	656	515	891	1,047	1,075	1,240	1,259	1,327
New School	491	1,670	2,042	2,385	2,669	1,972	2,300	2,428	2,345	1,857	1,819	1,050	1,324
U. of St. Thomas (MN)	492	842	933	767	702	352	ne	195	212	320	313	450	1,321
U. of the Sciences Philadelphia	493	984	1,338	1,287	1,357	987	1,096	1,153	1,102	1,095	1,318	1,126	1,320
U. Virginia's C. Wise	494	76	38	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,307
Texas A&M U.-Commerce	495	1,362	1,557	1,600	1,349	1,234	1,121	876	823	1,159	836	1,226	1,283
SUNY, Geneseo	496	755	1,306	1,532	640	474	663	930	992	998	1,206	950	1,273

TABLE 24

## Federally financed higher education R&amp;D expenditures, ranked by FY 2021 R&amp;D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
U. Oklahoma, Tulsa	497	ne	ne	ne	ne	ne	895	1,104	976	1,605	1,803	1,953	1,267
Hofstra U.	498	2,206	2,182	2,660	1,967	2,577	2,119	2,149	1,471	1,275	1,296	997	1,266
Dillard U.	499	7,096	7,211	7,325	7,692	6,889	8,853	7,605	5,592	5,503	1,390	1,200	1,257
Texas A&M International U.	500	1,623	1,195	989	868	977	658	924	1,730	2,008	1,847	986	1,243
Roger Williams U.	501	1,574	2,132	2,166	1,877	2,038	1,696	1,736	2,024	1,052	1,135	1,045	1,202
U. Puerto Rico, Cayey	501	710	1,278	1,515	1,168	1,143	959	1,105	704	632	963	1,210	1,202
Keck Graduate Institute	503	ne	1,744	1,671	1,227	1,302	937	949	969	1,007	1,078	1,113	1,201
CUNY, New York City C. of Technology	504	81	145	ne	ne	ne	ne	ne	ne	1,978	1,891	1,585	1,197
U. Houston-Downtown	505	908	1,186	1,828	1,183	1,800	1,571	1,165	1,710	1,836	1,437	1,392	1,169
Saint Joseph's U.	506	1,368	1,087	835	700	468	526	476	239	252	373	1,047	1,158
Claremont Graduate U.	507	5,888	5,215	8,875	8,452	7,358	6,264	5,170	4,076	2,982	1,886	809	1,152
Williams C.	507	2,330	2,117	2,029	1,498	1,029	1,700	1,614	1,703	1,458	1,131	1,086	1,152
Davidson C.	509	1,153	1,053	651	1,619	1,170	1,703	813	1,105	813	973	1,411	1,151
U. Puerto Rico, Humacao	510	1,950	1,976	1,949	1,452	1,102	669	ne	ne	882	828	1,279	1,137
Black Hills State U.	511	2,434	1,172	1,675	2,163	1,720	1,674	2,056	1,448	1,437	1,535	1,287	1,124
U. of the Pacific	512	3,135	2,678	2,090	1,676	2,675	1,751	1,991	1,474	2,141	2,158	1,375	1,106
Seattle U.	513	468	622	530	ne	1,348	927	820	862	1,644	1,307	1,303	1,102
New Mexico Highlands U.	514	970	989	735	741	969	ne	1,086	1,015	741	ne	1,034	1,085
U. Wisconsin-Oshkosh	515	832	1,154	1,238	1,012	1,048	1,084	ne	1,113	1,106	1,099	1,092	1,083
C. New Jersey	516	461	254	ne	ne	ne	ne	ne	929	829	ne	951	1,079
Trinity U.	517	1,023	1,046	1,222	2,034	1,544	1,183	973	986	1,187	924	1,207	1,078
U. of the Incarnate Word	518	ne	217	ne	ne	ne	403	ne	ne	868	1,075	869	1,076
U. Illinois, Springfield	519	436	455	602	534	415	307	725	1,533	1,109	980	976	1,071
U. Alaska, Southeast	520	1,222	941	1,003	1,113	1,183	1,341	1,502	1,480	1,636	1,235	1,098	1,046
Doane U.	521	ne	1,008	546	ne	846	390	ne	ne	865	928	958	1,034
Stephen F. Austin State U.	522	5,530	1,690	1,800	1,836	1,850	2,340	1,808	1,276	1,242	1,332	1,257	1,029
Furman U.	523	1,332	1,111	1,164	1,217	891	1,136	1,068	1,292	1,110	1,106	847	1,028
Drake U.	524	456	382	ne	573	ne	ne	1,116	772	699	463	ne	1,016
Augustana U.	525	889	1,169	1,007	809	737	671	ne	1,140	1,023	784	ne	1,013
Clafin U.	526	3,226	5,103	5,090	2,643	1,711	1,158	1,743	1,344	1,491	1,735	1,907	1,005
California State U., Channel Islands	527	ne	451	ne	425	528	825	249	142	284	500	553	993
SUNY, Buffalo State	528	1,293	1,965	2,348	1,336	1,076	846	859	877	1,057	1,225	1,241	977
Union C., Schenectady	529	1,427	959	867	1,863	1,385	1,080	1,680	554	885	972	462	976
U. Hawaii, Maui C.	530	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	951
Coastal Carolina U.	531	1,533	1,487	1,598	1,714	1,281	1,041	1,052	1,028	1,031	1,294	1,211	948
Calvin U.	532	2,084	560	664	774	1,273	1,034	795	880	1,363	925	888	942

TABLE 24

## Federally financed higher education R&amp;D expenditures, ranked by FY 2021 R&amp;D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Alfred U.	533	1,687	2,004	1,648	1,468	1,351	1,434	1,558	917	1,416	1,580	947	939
Pomona C.	534	1,048	1,779	1,599	2,227	1,789	1,074	1,579	1,038	868	863	1,123	930
U. Texas, Tyler	535	3,378	1,277	6,535	4,123	4,601	2,570	1,936	708	719	813	774	929
U. Ana G. Mendez, Gurabo	536	691	1,054	1,034	747	1,111	447	437	428	471	951	946	926
CUNY, York C.	537	ne	1,507	861	693	ne	534	ne	ne	ne	1,511	1,513	922
Vassar C.	538	1,280	1,838	1,258	1,694	1,220	1,133	1,495	1,600	4,185	909	1,055	918
U. Wisconsin-Eau Claire	539	1,320	829	817	655	395	ne	661	955	705	748	647	909
Willamette U.	540	666	650	1,327	822	860	745	1,090	1,028	872	549	401	896
U. Wisconsin-La Crosse	541	2,150	2,013	i 1,876	1,240	1,095	1,006	1,250	1,158	1,171	777	817	895
Keene State C.	542	ne	1,884	1,956	i 2,029	2,130	820	ne	837	ne	1,022	1,043	894
U. Wisconsin-Green Bay	543	778	732	i 686	i 640	i 594	i 545	919	666	546	821	890	876
U. Houston-Clear Lake	544	301	818	730	875	739	541	756	753	894	718	632	865
Pepperdine U.	545	933	299	808	914	1,162	1,058	1,233	1,087	713	914	693	835
Abilene Christian U.	546	537	427	ne	ne	ne	ne	ne	ne	ne	ne	ne	827
SUNY, C. Plattsburgh	547	1,187	726	454	ne	459	717	545	455	1,254	1,197	950	824
American Samoa Community C.	548	ne	ne	ne	ne	ne	1,337	793	ne	ne	860	ne	815
La Sierra U.	549	ne	17	ne	ne	0	45	127	575	623	640	618	812
Southeastern Louisiana U.	550	1,161	911	985	1,039	692	1,429	975	1,215	1,046	803	884	795
Fielding Graduate U.	551	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	791
Eastern Washington U.	552	46	559	725	1,226	885	955	1,287	1,193	1,081	864	1,153	775
Erikson Institute	553	ne	355	1,648	1,187	1,212	1,610	1,719	2,529	1,822	753	1,006	772
CUNY, system office	554	ne	ne	1,398	1,001	362	828	832	527	1,977	2,241	884	768
U. Hartford	555	820	1,576	1,505	1,175	1,080	1,089	1,172	1,178	591	1,019	854	766
Pittsburg State U.	556	999	1,280	989	791	1,023	453	270	316	195	339	477	759
Hobart and William Smith Colleges	557	1,118	1,379	1,103	1,896	730	442	ne	528	ne	1,047	1,072	758
Milwaukee School of Engineering	558	1,177	1,181	1,207	1,245	1,500	1,335	1,164	775	680	764	613	751
Colby C.	559	1,105	1,028	1,197	1,046	943	1,038	1,137	1,048	1,213	1,093	809	750
Mercyhurst U.	560	854	389	729	674	445	616	612	618	i ne	668	i 690	i 745
Northwestern State U. Louisiana	561	635	683	609	600	494	ne	490	458	490	579	598	738
Grambling State U.	562	993	1,515	1,428	1,116	1,065	1,177	974	4,283	1,806	1,066	787	731
Biola U.	563	ne	ne	ne	ne	ne	ne	564	i 576	i 599	i 641	i 662	i 714
Southern Connecticut State U.	564	1,459	1,199	1,595	1,176	1,620	1,626	1,324	1,274	823	803	1,026	713
Lewis and Clark C.	565	843	684	718	1,490	1,378	872	636	723	848	931	1,268	702
Northland C.	566	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	697
Ithaca C.	567	617	627	774	825	816	635	ne	ne	ne	ne	981	685
Mills C.	568	1,095	753	1,058	1,738	1,672	938	873	1,286	928	840	1,341	683

TABLE 24

**Federally financed higher education R&D expenditures, ranked by FY 2021 R&D expenditures: FYs 2010–21**

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Sacred Heart U.	569	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	675
Central Connecticut State U.	570	366	684	677	617	506	243	143	231	ne	540	901	663
U. California, Office of the President	571	121	483	1,048	599	248	181	295	288	343	319	217	653
Claremont McKenna C.	572	1,130	1,083	1,082	1,081	1,080	ne	644	754	555	730	771	637
Franklin W. Olin C. of Engineering	573	ne	666	1,090	946	1,050	1,103	782	588	472	162	293	636
Suffolk U.	574	ne	299	249	360	317	250	413	576	ne	ne	844	634
Macalester C.	575	1,075	1,517	1,106	876	879	708	771	970	553	805	647	617
West Chester U. Pennsylvania	576	3,614	5,845	1,457	561	404	511	454	624	671	715	724	608
Austin Peay State U.	577	ne	729	484	364	189	334	325	347	599	295	475	597
Canisius C.	577	154	181	ne	ne	ne	ne	ne	1,459	1,054	943	ne	597
Dordt U.	579	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	594
Indiana State U.	580	990	1,352	1,268	858	1,005	992	1,189	816	927	1,190	949	582
St. Cloud State U.	581	1,260	622	215	420	797	1,299	643	555	529	733	459	577
Minnesota State U., Mankato	582	2,051	852	701	313	317	546	1,260	605	639	708	525	575
Providence C.	583	857	726	ne	827	ne	1,162	981	783	960	857	913	574
Albany State U.	584	396	893	2,000	1,532	1,271	1,128	1,137	1,026	839	1,065	836	552
California State U., Maritime Academy	585	ne	1,200	1,748	1,257	122	31	71	225	550	617	621	548
Edward Via C. of Osteopathic Medicine	586	ne	707	502	517	250	89	88	94	195	749	566	537
Eastern Kentucky U.	587	2,638	2,852	2,329	2,078	1,518	1,111	1,029	758	655	598	554	530
National U. of Natural Medicine	588	ne	247	ne	ne	ne	ne	ne	427	ne	760	912	523
Lafayette C.	589	1,223	1,564	1,205	1,166	1,070	1,066	997	1,493	1,133	910	755	508
Oberlin C.	590	1,359	1,183	1,330	1,204	1,204	1,364	962	1,558	1,096	1,576	743	505
Sul Ross State U.	590	1,595	1,672	1,073	735	546	333	272	440	553	339	481	505
SUNY, C. Brockport	592	521	677	989	755	564	535	639	747	672	638	781	500
U. North Georgia	593	ne	ne	ne	ne	ne	ne	ne	671	1,013	637	542	497
Stockton U.	594	ne	405	160	ne	380	198	221	ne	246	553	872	486
Des Moines U.	595	62	91	ne	ne	224	ne	386	878	933	845	449	485
U. of Mary Washington	595	ne	660	445	ne	ne	425	ne	ne	418	577	660	485
Fort Hays State U.	597	ne	ne	ne	ne	ne	ne	ne	ne	ne	694	764	482
Florida Polytechnic U.	598	na	na	na	na	na	203	ne	ne	ne	338	252	459
Connecticut C.	599	954	1,005	1,130	833	514	756	817	777	505	752	483	439
West Virginia School of Osteopathic Medicine	600	22	17	ne	ne	ne	ne	ne	ne	ne	ne	419	423
SUNY, Oswego	601	644	871	ne	673	ne	ne	ne	669	661	628	492	415
U. North Carolina, general administration	602	ne	ne	ne	ne	ne	337	174	161	98	213	572	408
Purdue U., Fort Wayne	603	1,797	2,443	1,946	1,901	1,479	1,650	874	812	773	544	589	401
Manhattan C.	604	166	245	ne	ne	ne	ne	ne	ne	ne	245	398	397



TABLE 24

**Federally financed higher education R&D expenditures, ranked by FY 2021 R&D expenditures: FYs 2010–21**

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	605	ne	106	179	340	523	264	643	206	201	191	342	376
Arcadia U.	606	1,206	1,621	620	ne	ne	ne	ne	ne	ne	ne	ne	371
Northern Michigan U.	607	287	237	ne	ne	ne	ne	288	304	354	311	446	366
Kean U.	608	ne	550	1,191	347	ne	244	323	ne	ne	ne	775	362
Kettering U.	609	4,477	3,452	2,165	1,306	1,173	1,032	1,279	2,105	1,144	402	568	353
U. Wisconsin-Platteville	609	46	50	i ne	ne	328	i 309	i ne	349	i ne	339	i 336	i 353
Grinnell C.	611	1,161	287	648	372	414	546	340	652	635	364	644	344
Marshall B. Ketchum U.	612	ne	ne	ne	ne	48	224	375	368	i 354	i 336	i 323	i 343
U. Massachusetts, central office	613	ne	ne	1,655	2,126	3,468	1,445	1,124	721	643	488	488	342
Indiana U., South Bend	614	282	494	375	638	575	408	344	249	111	ne	ne	337
Marymount U.	614	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	337
Philadelphia C. of Osteopathic Medicine	616	812	850	694	277	104	192	150	260	260	346	422	318
Heidelberg U.	617	ne	266	i ne	349	199	272	294	428	163	164	188	308
C. Wooster	618	249	512	183	ne	404	386	i ne	736	744	456	283	300
Pratt Institute	619	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	294
Albion C.	620	ne	113	ne	ne	ne	ne	ne	210	114	180	272	289
Hamilton C.	621	1,077	1,406	1,400	1,153	918	559	442	135	129	190	144	286
Lawrence Technological U.	622	3,144	2,615	1,108	988	739	976	658	767	479	304	405	284
St. Olaf C.	623	1,247	843	1,220	955	760	668	849	797	333	255	230	271
Andrews U.	624	280	77	ne	ne	ne	ne	ne	ne	ne	278	263	256
U. San Francisco	625	428	371	1,867	858	738	503	280	405	310	198	148	255
Oregon Institute of Technology	626	ne	193	ne	ne	ne	270	1,268	752	i 235	437	326	252
Rhode Island School of Design	627	ne	322	ne	ne	ne	252	274	i 269	i 259	i 246	i 236	i 250
Jacksonville State U.	628	133	265	ne	ne	ne	3,020	3,081	2,938	i 2,794	2,312	1,216	245
Lipscomb U.	629	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	206	i 222
Azusa Pacific U.	630	ne	970	609	i ne	ne	ne	323	606	334	199	137	212
U. Wisconsin-River Falls	630	134	174	i ne	ne	ne	ne	ne	529	445	ne	488	212
Alaska Pacific U.	632	283	349	ne	ne	ne	802	671	665	436	451	148	189
Framingham State U.	633	ne	ne	ne	ne	ne	ne	ne	4	17	ne	179	188
Monmouth U.	634	2,190	1,873	714	ne	635	ne	173	ne	ne	120	110	174
U. Minnesota, Morris	635	245	414	ne	811	262	306	428	294	ne	195	213	162
Wheaton C., Wheaton	636	ne	585	114	ne	178	193	ne	70	50	301	324	148
Fairfield U.	637	2,681	2,780	2,507	i 2,232	2,051	339	435	1,101	1,222	594	365	147
Elon U.	638	ne	40	112	161	398	376	423	358	309	284	106	138
Liberty U.	639	ne	ne	ne	ne	ne	ne	ne	ne	ne	535	886	120

TABLE 24

**Federally financed higher education R&D expenditures, ranked by FY 2021 R&D expenditures: FYs 2010–21**

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
U. Michigan, Flint	640	227	322	ne	ne	ne	ne	ne	219	159	122	276	113
Eastern Connecticut State U.	641	ne	20	ne	ne	6	17	27	19	36	181	177	108
Roseman U. of Health Sciences	642	ne	0	ne	ne	131	0	0	0	18	37	56	53
C. of Saint Benedict	643	ne	0	ne	72	71	53	38	44	47	45	43	46
Niagara U.	644	162	166	275	32	119	117	172	181	334	355	24	34
All other surveyed institutions	-	1,131,663	1,279,276	1,237,892	1,146,061	925,875	892,510	931,451	960,565	1,019,839	403,758	363,975	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

<sup>a</sup> Johns Hopkins University includes the Applied Physics Laboratory, with \$1,881,568 thousand in federally financed R&D expenditures in FY 2021.

<sup>b</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

<sup>c</sup> The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

<sup>d</sup> The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

<sup>e</sup> The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

**Note(s):**

Institutions reporting zero federal expenditures for FY 2021 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 25

**Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
All institutions	-	49,143,460	1,994,728	2,145,163	28,452,956	475,827	3,852,415	812,660	955,852	374,088	8,714,829	1,364,942
Johns Hopkins U. <sup>a</sup>	1	2,774,643	258,141	73,509	765,565	113,772	321,641	5,471	2,726	48,543	1,183,154	2,121
U. Washington, Seattle	2	1,046,377	17,605	105,493	683,132	5,223	52,053	9,989	6,899	0	119,758	46,225
U. Michigan, Ann Arbor	3	891,125	5,841	7,910	549,127	5,490	38,670	6,813	85,904	1,805	180,607	8,958
Georgia Institute of Technology	4	852,319	121,473	7,744	11,713	3,808	22,213	1,944	3,055	0	666,235	14,134
Columbia U. in the City of New York	5	831,648	24,889	53,955	611,343	2,190	40,994	3,688	2,513	0	64,962	27,114
Stanford U.	6	811,183	14,181	8,901	578,172	5,209	72,190	10,678	5,926	0	89,861	26,065
U. California, San Diego	7	801,117	18,932	107,137	465,019	2,995	54,485	13,008	5,282	6,414	100,212	27,633
U. Pennsylvania	8	792,089	16,523	749	644,430	3,206	39,630	9,265	12,742	1	49,526	16,017
Duke U.	9	776,632	4,468	5,406	638,716	6,364	19,826	4,657	21,294	7	74,308	1,586
U. North Carolina, Chapel Hill	10	747,895	27,834	11,575	569,385	4,735	25,924	24,136	43,473	0	19,983	20,850
U. Pittsburgh, Pittsburgh	11	724,993	6,917	7,431	628,092	1,861	16,509	14,484	2,223	4,484	37,749	5,243
U. California, Los Angeles	12	721,043	10,475	31,060	523,747	9,562	36,246	10,897	7,673	22,772	53,761	14,850
U. Maryland <sup>b</sup>	13	713,283	33,768	55,924	362,219	3,035	83,425	7,813	35,980	15,232	95,898	19,989
U. California, San Francisco	14	683,179	0	0	645,510	0	37,312	0	0	357	0	0
Yale U.	15	647,656	5,107	2,553	570,441	1,871	29,641	6,256	2,083	0	23,578	6,126
U. Wisconsin-Madison	16	646,764	14,687	35,050	385,530	4,406	60,580	6,299	26,100	23,564	75,104	15,444
Pennsylvania State U., University Park and Hershey Medical Center	17	622,532	56,263	20,062	142,063	12,668	53,869	26,302	10,718	0	284,244	16,343
Harvard U.	18	616,589	11,767	24,827	411,239	16,848	59,262	1,867	32,441	141	50,918	7,279
Washington U., Saint Louis	19	606,127	4,167	5,585	528,261	821	20,017	4,997	629	1,949	22,291	17,410
Cornell U.	20	592,359	19,456	4,852	385,534	2,047	93,608	4,359	5,374	0	72,771	4,358
Vanderbilt U. and Vanderbilt U. Medical Center	21	586,880	12,495	852	484,119	621	15,636	7,238	2,959	0	43,570	19,390
U. Southern California	22	574,185	110,401	8,192	328,186	1,227	13,175	4,508	41,252	143	51,948	15,153
Northwestern U.	23	572,975	5,873	782	426,804	1,005	49,661	2,528	11,898	15,585	55,739	3,100
U. Minnesota, Twin Cities	24	570,946	9,509	8,548	388,235	5,674	32,702	20,743	18,265	213	78,808	8,249
Ohio State U.	25	559,797	6,904	5,685	350,221	3,309	30,584	6,411	9,443	22,834	88,435	35,971
Icahn School of Medicine at Mount Sinai	26	554,582	0	0	554,582	0	0	0	0	0	0	0

TABLE 25

**Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
New York U.	27	547,027	9,830	71	446,533	10,981	19,664	22,255	6,585	0	18,633	12,475
Texas A&M U., College Station and Health Science Center	28	528,057	12,013	81,667	250,689	4,925	22,946	3,233	11,023	2,348	123,286	15,927
Emory U.	29	515,940	964	1,856	478,989	1,540	18,181	4,218	905	0	8,356	931
U. Texas, Austin	30	489,827	79,109	20,837	84,849	5,691	59,786	8,001	12,928	218	194,110	24,298
Massachusetts Institute of Technology	31	483,526	62,186	20,764	75,204	5,009	114,108	430	5,534	3,611	193,246	3,434
U. Colorado Boulder	32	459,816	15,321	116,175	43,726	2,601	111,234	11,879	9,168	1,508	132,769	15,435
U. Alabama, Birmingham	33	423,290	1,250	188	366,366	362	4,292	4,971	303	0	43,477	2,081
U. Florida	34	423,154	8,849	8,334	281,503	1,013	17,471	9,487	5,584	0	72,191	18,722
U. Illinois, Urbana-Champaign	35	406,612	63,076	4,965	121,883	2,092	49,944	9,182	2,343	1,002	139,887	12,238
Boston U.	36	402,443	6,725	6,053	293,731	3,218	23,002	13,117	869	1,433	48,537	5,758
U. Chicago	37	394,275	25,470	8,384	260,911	3,972	47,425	4,837	13,190	0	25,909	4,177
U. California, Davis	38	373,719	4,367	5,881	279,849	3,678	17,078	1,495	13,706	2	43,175	4,488
Baylor C. of Medicine	39	365,472	0	0	365,472	0	0	0	0	0	0	0
U. Colorado Anschutz Medical Campus <sup>c</sup>	40	363,999	0	212	361,493	0	344	20	73	0	1,189	668
U. California, Berkeley	41	354,478	201	5,198	119,251	6,122	90,707	9,164	5,495	33,983	78,026	6,331
U. Arizona	42	353,117	8,999	13,788	206,315	2,783	73,148	2,381	6,333	2,380	34,360	2,630
Michigan State U.	43	349,889	6,720	3,071	141,436	5,596	122,143	7,758	20,456	1,120	31,314	10,275
Case Western Reserve U.	44	340,438	1,888	493	294,556	458	7,538	897	3,291	54	30,483	780
U. Utah	45	340,434	21,958	30,710	218,204	2,200	19,543	4,196	3,396	0	29,330	10,897
Rutgers, State U. New Jersey, New Brunswick	46	339,015	3,942	12,836	254,944	6,239	13,160	3,028	2,003	190	35,691	6,982
Oregon Health and Science U.	47	329,016	0	0	318,175	0	0	0	0	0	10,841	0
Indiana U., Bloomington	48	326,326	23,657	2,420	251,142	1,260	19,340	6,621	9,435	964	5,752	5,735
U. Rochester	49	309,647	3,190	2,207	185,919	210	92,680	4,328	318	5,361	14,213	1,221
U. Cincinnati	50	309,097	205	303	282,277	620	4,501	2,875	2,660	0	12,970	2,686
Colorado State U., Fort Collins	51	303,901	3,125	46,601	187,839	2,573	10,355	3,335	6,894	4,921	30,424	7,834
U. Virginia, Charlottesville	52	297,273	20,384	3,582	190,160	1,320	20,408	4,677	3,713	1,085	37,143	14,801

TABLE 25

**Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Purdue U., West Lafayette	53	295,278	15,679	3,938	84,604	1,513	24,204	6,095	4,550	28	137,052	17,615
California Institute of Technology	54	293,197	9,772	25,067	67,899	605	160,456	0	0	0	24,011	5,387
U. Iowa	55	283,763	2,842	348	212,393	273	28,692	8,543	2,309	99	23,116	5,148
Uniformed Services U. of the Health Sciences	56	275,573	0	0	262,204	0	0	13,369	0	0	0	0
Arizona State U.	57	274,541	14,325	49,889	56,184	2,396	14,065	7,599	19,939	18,732	73,746	17,666
Scripps Research Institute	58	272,181	0	0	272,181	0	0	0	0	0	0	0
Utah State U.	59	264,575	1,812	690	24,945	174	3,395	2,420	919	0	228,986	1,234
U. Texas Southwestern Medical Center	60	257,611	0	0	257,611	0	0	0	0	0	0	0
U. California, Irvine	61	255,010	11,215	9,271	154,668	3,305	24,451	3,507	2,142	0	29,315	17,136
U. Massachusetts, Medical School	62	248,873	0	0	248,873	0	0	0	0	0	0	0
U. New Mexico	63	242,212	2,760	6,164	180,991	1,197	6,179	4,765	3,915	615	33,001	2,625
North Carolina State U.	64	239,115	12,833	12,866	75,648	11,908	15,032	1,060	4,445	8,959	91,430	4,934
U. Illinois, Chicago	65	237,949	6,425	553	182,440	1,989	12,875	1,587	2,396	265	21,610	7,809
Carnegie Mellon U.	66	234,993	131,071	360	9,072	3,452	11,139	8,940	3,225	4,401	63,083	250
U. Miami	67	231,001	586	44,559	167,201	356	4,482	10,170	462	0	2,816	369
Woods Hole Oceanographic Institution	68	222,351	0	129,085	0	0	0	0	0	0	93,266	0
U. Kentucky	69	220,703	2,223	1,652	166,751	1,180	7,061	3,379	1,628	1,691	33,001	2,137
U. Texas M. D. Anderson Cancer Center	70	217,073	0	0	194,972	7,789	8,179	2,854	3,279	0	0	0
Virginia Polytechnic Institute and State U.	71	216,733	8,484	1,732	72,611	4,368	13,944	1,868	3,156	48	108,080	2,442
Albert Einstein C. of Medicine	72	214,619	0	0	214,619	0	0	0	0	0	0	0
SUNY, U. Buffalo	73	210,257	8,770	2,325	115,162	653	8,075	3,854	1,104	491	66,790	3,033
Princeton U.	74	205,000	14,768	21,115	54,327	4,877	56,283	2,116	6,743	0	44,201	570
Brown U.	75	198,574	10,480	5,321	108,063	8,558	11,410	7,644	20,519	7,344	15,963	3,272
U. Oklahoma, Norman and Health Science Center	76	193,639	2,414	69,382	79,517	402	8,751	2,212	3,475	0	15,235	12,251
Wake Forest U.	77	188,887	145	0	186,487	70	1,470	69	24	0	544	78
U. Georgia	78	188,451	1,258	7,051	135,261	1,096	4,936	17,784	9,262	60	8,139	3,604

TABLE 25

**Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Kansas	79	187,249	2,269	4,531	115,370	508	12,448	8,056	1,319	0	12,206	30,542
U. South Florida <sup>d</sup>	80	185,364	2,875	9,935	98,950	709	4,803	1,692	15,894	237	26,183	24,086
U. Connecticut	81	183,362	3,271	7,650	105,940	1,268	7,346	13,692	3,562	41	37,988	2,604
U. Dayton	82	181,445	6,724	461	529	0	820	80	0	0	171,865	966
Washington State U.	83	179,536	4,772	5,103	101,065	356	16,946	3,271	7,120	693	23,129	17,081
Oregon State U.	84	179,180	6,182	37,629	78,583	712	4,453	706	3,251	3,102	38,914	5,648
Iowa State U.	85	169,177	3,093	2,725	56,344	9,537	20,463	733	5,410	102	62,113	8,657
Tufts U.	86	166,809	942	215	115,629	6,640	8,268	4,976	2,961	6,229	19,362	1,587
U. Texas Health Science Center, Houston	87	165,139	0	0	165,139	0	0	0	0	0	0	0
U. Missouri, Columbia	88	163,576	5,692	729	109,626	952	6,710	4,219	576	661	15,905	18,506
SUNY, Stony Brook U.	89	162,972	10,753	12,214	72,683	4,824	33,285	4,112	462	5,606	17,613	1,420
Medical U. South Carolina	90	162,394	0	0	162,394	0	0	0	0	0	0	0
George Washington U.	91	161,349	2,907	59	122,600	555	4,872	2,282	8,227	1,921	15,052	2,874
Virginia Commonwealth U.	92	160,995	1,335	200	117,761	529	2,348	8,904	520	0	9,924	19,474
U. Hawaii, Manoa	93	157,772	11,062	45,399	62,074	410	16,519	237	1,545	3,154	16,553	819
U. Delaware	94	157,725	3,404	11,596	32,572	1,204	21,099	6,801	5,713	1,772	68,504	5,060
Temple U.	95	153,316	2,571	449	117,907	667	10,707	7,574	1,486	6	4,734	7,215
Dartmouth C. and Dartmouth Hitchcock Medical Center	96	152,335	5,783	1,085	98,639	1,326	9,181	9,477	1,196	636	24,126	886
Florida State U.	97	150,108	3,710	7,904	30,746	1,894	37,224	8,887	2,050	602	34,492	22,599
Northeastern U.	98	143,421	16,182	2,358	18,436	721	16,081	7,113	8,200	0	69,550	4,780
Medical C. Wisconsin	99	136,385	0	0	131,164	0	0	0	0	0	5,221	0
U. Tennessee, Knoxville	100	135,202	8,756	2,558	32,204	599	11,804	1,475	1,597	7,524	66,556	2,129
Georgetown U.	101	130,419	3,703	0	109,131	180	8,304	949	6,531	0	0	1,621
U. Alaska, Fairbanks	102	128,229	947	76,984	23,554	165	11,116	0	1,163	963	11,355	1,982
U. California, Santa Barbara	103	122,168	6,064	16,253	12,283	852	34,841	2,266	1,686	0	44,958	2,965
Wayne State U.	104	117,976	1,353	63	88,791	499	12,051	1,602	845	809	5,695	6,268
U. Texas Medical Branch	105	117,915	0	0	117,490	0	0	0	0	0	425	0
U. Alabama, Huntsville	106	116,971	45,627	14,376	330	15	10,716	0	597	0	44,780	530
Mississippi State U.	107	116,713	2,269	11,429	42,435	238	2,399	278	10,795	461	44,188	2,221
U. Massachusetts, Amherst	108	116,349	15,410	2,117	37,266	2,290	15,054	5,747	1,889	310	32,063	4,203

TABLE 25

**Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Tulane U.	109	113,819	1,472	2,074	98,650	381	3,041	1,202	2,598	0	4,016	385
Montana State U., Bozeman	110	113,257	1,141	3,609	36,541	1,403	16,551	84	910	5,544	39,190	8,284
U. Nebraska, Medical Center	111	111,042	0	0	111,042	0	0	0	0	0	0	0
U. Notre Dame	112	109,891	8,037	0	12,920	2,661	29,976	3,684	1,611	3,515	42,501	4,986
Thomas Jefferson U.	113	109,448	0	0	109,364	0	0	0	0	0	55	29
U. Central Florida	114	109,310	21,437	1,498	15,068	603	20,915	5,719	951	90	36,318	6,711
U. Texas Health Science Center, San Antonio	115	106,824	0	0	106,824	0	0	0	0	0	0	0
U. Nebraska, Lincoln	116	106,564	4,327	640	48,519	658	15,445	7,108	5,443	0	21,450	2,974
Florida International U.	117	105,309	8,929	9,569	20,713	520	14,476	17,520	4,126	816	23,801	4,839
George Mason U.	118	103,712	19,379	11,636	10,609	1,529	3,561	1,495	7,601	14	44,086	3,802
U. Vermont	119	103,554	951	1,824	87,438	322	2,061	1,531	667	2,787	5,537	436
Louisiana State U., Baton Rouge	120	103,178	10,944	7,740	51,067	1,656	13,940	159	1,363	102	11,014	5,193
U. New Hampshire	121	99,323	567	44,691	29,183	352	2,355	534	8,913	0	8,984	3,744
U. South Carolina, Columbia	122	97,193	2,248	3,288	53,300	1,267	1,467	4,653	7,877	0	17,042	6,051
U. California, Riverside	123	97,182	5,841	4,764	45,420	1,520	14,667	2,457	914	1,356	18,541	1,702
U. Louisville	124	97,179	14	171	77,090	311	1,406	707	379	6	11,844	5,251
Rockefeller U.	125	96,318	0	334	92,292	111	3,581	0	0	0	0	0
Rice U.	126	95,648	8,006	2,546	7,628	3,934	17,271	4,283	2,229	418	46,799	2,534
Drexel U.	127	93,517	4,413	0	58,129	550	1,429	1,824	792	240	20,821	5,319
Auburn U., Auburn	128	91,157	2,151	1,675	35,103	395	6,649	510	2,819	796	40,288	771
Clemson U.	129	89,883	3,143	0	20,765	1,384	6,037	928	4,781	0	46,693	6,152
West Virginia U.	130	89,802	1,742	1,749	51,717	374	8,900	1,531	1,301	361	18,042	4,085
U. California, Santa Cruz	131	86,263	2,407	15,976	17,564	139	16,115	19	665	0	33,002	376
U. Arkansas for Medical Sciences	132	83,387	0	0	83,387	0	0	0	0	0	0	0
U. Oregon	133	82,242	4,811	5,371	29,640	641	9,747	16,939	1,468	0	0	13,625
Georgia State U.	134	79,834	1,643	682	34,512	1,009	10,035	3,131	10,424	0	0	18,398
U. Rhode Island	135	78,923	416	33,815	21,298	0	2,203	1,752	1,129	8,417	7,962	1,931
Kansas State U.	136	77,779	2,377	444	40,991	158	9,082	3,115	3,447	1,506	13,810	2,849
U. Houston	137	77,489	2,337	3,418	19,471	2,743	6,931	9,784	412	1,539	26,599	4,255
Wichita State U.	138	77,427	0	255	6,332	139	853	207	9	0	64,692	4,940

TABLE 25

## Federally financed higher education R&amp;D expenditures, ranked by all federal R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Nevada, Reno	139	77,246	3,896	6,038	43,804	468	4,912	3,647	2,017	39	11,419	1,006
New Jersey Institute of Technology	140	77,057	3,448	0	7,820	1,549	8,145	0	76	0	50,822	5,197
U. Mississippi	141	76,886	119	1,220	60,201	201	7,712	0	115	0	4,487	2,831
Rush U.	142	73,279	0	0	70,912	0	0	2,367	0	0	0	0
U. Montana, Missoula	143	70,686	1,619	3,391	51,926	405	6,313	467	2,719	0	0	3,846
U. Louisiana, Lafayette	144	65,436	3,227	3,772	26,466	235	3,392	0	3,730	57	6,909	17,648
U. Maine	145	65,249	824	8,996	19,690	18	2,289	135	222	3,624	27,452	1,999
New Mexico State U.	146	64,699	3,464	3,286	21,918	77	14,524	198	451	360	19,957	464
Augusta U.	147	61,943	84	0	61,727	44	0	88	0	0	0	0
Colorado School of Mines	148	61,421	3,746	3,708	2,479	645	9,963	0	1,097	0	37,909	1,874
U. Maryland, Baltimore County	149	59,882	7,385	12,883	7,736	228	17,339	1,015	5,898	1,176	4,657	1,565
U. North Dakota	150	58,463	693	2,794	17,046	0	703	325	22	4	35,155	1,721
U. Texas, Dallas	151	58,249	6,367	128	13,432	930	9,314	1,853	824	137	24,793	471
Cold Spring Harbor Laboratory	152	56,907	0	0	56,889	0	0	0	0	0	0	18
SUNY, U. Albany	153	56,425	1,596	6,809	38,544	344	3,663	1,227	1,902	0	1,393	947
U. Tennessee, Health Science Center	154	56,021	0	0	56,021	0	0	0	0	0	0	0
Naval Postgraduate School	155	54,855	3,953	6,195	1,209	1,941	5,658	40	5,622	3,950	20,798	5,489
U. Wyoming	156	54,444	971	8,601	28,786	1,258	1,748	47	589	4,792	7,391	261
U. Alabama, Tuscaloosa	157	53,880	4,438	822	6,041	243	4,913	2,362	1,711	0	25,859	7,491
Rensselaer Polytechnic Institute	158	52,465	5,398	1,299	3,934	991	4,033	2,075	196	78	31,832	2,629
Brandeis U.	159	52,147	1,006	0	22,656	513	9,885	3,004	5,849	0	409	8,825
U. Idaho	160	51,021	1,476	1,924	35,296	142	831	101	2,779	52	6,705	1,715
U. Arkansas, Fayetteville	161	48,534	2,541	3,326	15,881	34	4,371	241	1,300	0	17,980	2,860
U. Massachusetts, Lowell	162	48,179	4,440	1,789	5,842	60	11,048	907	4,000	0	18,884	1,209
Oklahoma State U., Stillwater	163	47,428	460	801	21,210	472	2,640	2,316	363	1,662	15,319	2,185
Cleveland State U.	164	47,402	0	0	38,233	183	313	96	265	0	7,748	564
U. Texas, Arlington	165	46,946	2,674	254	7,783	863	8,778	194	7	0	23,581	2,812
U. Southern Mississippi	166	44,401	182	20,411	7,633	0	11,564	118	1,200	0	1,970	1,323



TABLE 25

**Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Texas, El Paso	167	43,930	4,670	1,512	12,399	827	4,537	1,627	925	286	15,602	1,545
San Diego State U.	168	43,473	657	1,091	17,106	1,157	2,931	12,013	848	31	4,553	3,086
U. Texas, San Antonio	169	42,952	11,594	2,037	11,786	116	5,338	753	1,848	359	7,346	1,775
North Dakota State U.	170	42,824	346	164	22,286	84	6,937	986	450	2,053	4,341	5,177
Northern Arizona U.	171	41,744	811	4,968	25,641	0	3,885	181	126	368	4,910	854
Michigan Technological U.	172	41,505	2,074	9,646	859	226	1,248	106	495	180	26,289	382
Saint Louis U.	173	41,411	734	278	36,701	170	1,237	165	160	0	1,183	783
Florida A&M U.	174	36,761	16	5,255	19,995	0	1,344	207	0	0	4,852	5,092
Howard U.	175	35,443	740	289	19,875	0	4,733	1,510	340	0	7,420	536
Mercer U.	176	34,413	16	0	2,344	0	0	0	46	84	31,923	0
Louisiana State U., Health Sciences Center, New Orleans	177	34,272	0	0	34,272	0	0	0	0	0	0	0
Boston C.	178	34,257	402	5,459	7,427	908	8,597	2,314	3,631	0	0	5,519
CUNY, City C.	179	34,218	552	1,460	6,672	125	7,213	0	0	0	18,078	118
Syracuse U.	180	34,200	1,557	1,073	5,223	457	8,073	1,695	3,260	3	8,013	4,846
Stevens Institute of Technology	181	33,998	4,104	0	83	42	1,500	0	0	130	26,766	1,373
Texas Tech U.	182	33,938	916	4,463	5,784	210	4,067	1,232	98	0	15,359	1,809
U. Puerto Rico, Medical Sciences Campus	183	33,262	0	265	32,997	0	0	0	0	0	0	0
U. Toledo	184	32,601	0	3,371	13,665	0	7,627	153	21	0	7,574	190
U. North Texas, Health Science Center	185	32,464	0	0	32,464	0	0	0	0	0	0	0
U.S. Air Force Academy	186	31,818	150	34	369	0	2,348	0	3	0	28,914	0
Boise State U.	187	31,357	1,197	2,250	8,959	1,203	4,976	105	1,566	201	9,596	1,304
Rochester Institute of Technology	188	31,187	5,662	0	763	1,605	8,426	99	489	0	10,659	3,484
Texas State U.	189	31,116	818	2,168	4,329	875	2,774	193	3,212	30	1,537	15,180
San Jose State U.	190	30,877	0	6,871	1,047	276	2,129	18,043	790	0	700	1,021
Brigham Young U., Provo	191	30,439	841	287	5,937	466	4,414	222	753	0	15,694	1,825
Indiana U.-Purdue U., Indianapolis	192	30,290	2,798	583	11,825	365	1,871	3,422	2,395	1,242	4,040	1,749

TABLE 25

**Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Worcester Polytechnic Institute	193	30,166	7,405	0	1,065	1,375	2,171	0	1,091	0	16,095	964
William & Mary	194	29,928	1,670	12,138	1,635	329	4,140	255	4,366	0	0	5,395
Portland State U.	195	29,842	1,390	1,510	11,566	942	1,462	1,176	1,663	367	4,021	5,745
Lehigh U.	196	29,051	1,734	939	4,707	127	2,534	306	160	0	16,976	1,568
Florida Atlantic U.	197	28,510	1,562	638	11,315	643	1,135	1,036	105	0	11,045	1,031
SUNY, Downstate Health Sciences U.	198	27,620	0	0	27,620	0	0	0	0	0	0	0
U. Nevada, Las Vegas	199	27,178	443	3,096	13,583	48	4,170	3	189	195	4,037	1,414
U. North Carolina, Charlotte	200	27,145	8,282	573	2,589	673	2,577	328	1,401	0	9,381	1,341
Air Force Institute of Technology	201	27,025	1,551	175	0	197	8,037	0	0	0	17,065	0
Loyola U., Chicago	202	26,793	161	0	23,288	67	716	1,048	544	0	0	969
Missouri U. of Science and Technology	203	26,164	1,228	0	97	250	2,652	91	49	0	21,797	0
North Carolina Agricultural and Technical State U.	204	25,755	1,148	0	9,455	763	1,125	236	37	0	9,071	3,920
Old Dominion U.	205	25,514	1,196	2,096	3,286	865	4,475	913	644	0	9,683	2,356
SUNY, Polytechnic Institute	206	25,427	0	0	1,408	0	0	0	0	0	24,019	0
Morehouse School of Medicine	207	25,181	0	0	25,181	0	0	0	0	0	0	0
SUNY, Upstate Medical U.	208	24,974	0	0	24,974	0	0	0	0	0	0	0
New Mexico Institute of Mining and Technology	209	24,900	6,668	6,427	244	0	1,139	0	0	0	10,164	258
Illinois Institute of Technology	210	24,762	2,355	217	7,769	312	2,909	0	13	4	11,070	113
U. North Carolina, Greensboro	211	24,423	692	0	5,785	213	2,761	2,403	503	0	0	12,066
U. Wisconsin-Milwaukee	212	24,397	157	2,323	5,486	0	7,800	2,731	2,243	11	3,193	453
U. South Alabama	213	23,758	3,560	1,883	13,027	162	499	310	274	0	3,209	834
U. Massachusetts, Boston	214	23,673	716	984	5,050	70	2,420	2,031	3,169	0	498	8,735
U. Denver	215	23,415	22	31	3,327	37	2,532	4,978	1,549	0	1,037	9,902
SUNY, Binghamton U.	216	23,225	1,910	207	1,649	85	5,541	4,331	826	0	7,463	1,213
CUNY, Hunter C.	217	23,166	1,165	162	4,388	183	4,840	10,035	502	0	0	1,891

TABLE 25

**Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Catholic U. of America	218	23,128	0	0	1,255	53	18,569	324	5	0	2,680	242
East Carolina U.	219	22,813	309	1,198	13,680	0	1,387	612	1,071	0	1,376	3,180
Van Andel Research Institute	220	22,231	0	0	22,231	0	0	0	0	0	0	0
U. Memphis	221	21,578	4,492	1,590	3,928	240	1,309	1,632	2,072	0	2,275	4,040
U. Missouri, Kansas City	222	21,203	509	96	11,443	0	1,104	117	9	0	7,506	419
U. Nebraska, central administration	223	20,675	448	0	12,391	0	0	0	0	0	7,510	326
Tennessee State U.	224	20,378	445	314	15,633	110	145	257	509	0	2,732	233
Wright State U.	225	19,617	2,740	104	7,544	67	1,268	975	0	0	6,695	224
Ohio U.	226	19,164	243	1,120	6,837	25	4,143	1,048	292	0	5,340	116
U. North Texas, Denton	227	18,702	2,189	847	2,767	205	2,696	583	291	0	7,232	1,892
U. California, Merced	228	18,621	862	1,948	4,426	1,466	2,865	58	129	599	4,627	1,641
South Dakota State U.	229	18,607	0	604	11,133	302	1,448	499	665	0	3,854	102
Ponce Health Sciences U.	230	18,284	0	0	16,996	0	0	1,288	0	0	0	0
Southern Methodist U.	231	17,886	127	3,893	1,365	1,199	3,420	1,132	77	0	3,590	3,083
Rowan U.	232	17,400	453	158	6,086	202	1,404	686	58	129	8,035	189
Desert Research Institute	233	16,641	0	16,608	33	0	0	0	0	0	0	0
Delaware State U.	234	16,460	179	247	9,554	3	1,833	333	114	0	198	3,999
Morgan State U.	235	16,319	624	3,298	5,281	129	759	0	115	0	5,001	1,112
Rutgers, State U. New Jersey, Newark	236	16,281	1,984	1,587	8,709	0	2,020	483	108	0	0	1,390
San Francisco State U.	237	15,993	564	1,773	8,039	256	1,218	304	1,329	1,197	990	323
Tuskegee U.	238	15,424	463	0	6,933	1,146	169	0	2,500	0	4,213	0
Kent State U.	239	15,179	456	296	4,224	212	3,843	2,467	930	362	830	1,559
U. Puerto Rico, Rio Piedras	240	15,108	258	2,639	3,247	120	4,104	7	60	3,366	1,152	155
U. Alaska, Anchorage	241	15,079	63	4,761	6,170	0	1,010	261	1,625	93	869	227
Embry-Riddle Aeronautical U.	242	14,859	1,697	575	0	62	2,482	0	170	0	9,272	601
Eastern Virginia Medical School	243	14,774	0	0	14,774	0	0	0	0	0	0	0
U. Guam	244	14,316	0	5,001	8,519	81	86	0	171	4	0	454
U. Maryland Center for Environmental Science	245	14,072	0	7,217	5,603	0	256	0	166	0	0	830
Jackson State U.	246	14,038	468	0	2,686	39	7,625	144	67	93	1,817	1,099

TABLE 25

**Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
California State U., Northridge	247	13,989	358	663	3,292	628	6,665	231	383	74	1,069	626
Western Michigan U. and Homer Stryker M.D. School of Medicine	248	13,944	150	453	1,972	9	838	177	27	33	4,194	6,091
Marquette U.	249	13,918	675	0	5,446	684	2,614	185	0	0	3,866	448
Meharry Medical C.	250	13,784	0	0	13,784	0	0	0	0	0	0	0
U.S. Military Academy	251	13,708	1,878	2	2,574	456	338	0	919	156	7,334	51
U. Nebraska, Omaha	252	13,503	1,591	16	6,315	366	47	371	915	2,783	545	554
U. West Florida	253	13,313	1,625	0	703	0	1,014	78	4	0	265	9,624
Albany Medical C.	254	13,166	0	0	13,166	0	0	0	0	0	0	0
U. of the Virgin Islands	255	13,099	90	5,241	5,203	439	1,069	0	248	0	809	0
U. Puerto Rico, Mayaguez	256	13,073	0	2,014	1,729	87	687	0	30	0	8,136	390
Florida Institute of Technology	257	13,049	3,698	1,326	1,574	132	2,448	305	0	0	2,903	663
U. Texas Rio Grande Valley	258	13,018	188	605	7,186	345	1,083	0	0	63	2,885	663
Marshall U.	259	12,854	54	233	10,409	0	155	0	0	0	1,671	332
U. Hawaii, system office	260	12,688	1,313	11,375	0	0	0	0	0	0	0	0
Southern Illinois U., Carbondale	261	12,655	0	772	9,451	5	1,081	239	115	386	606	0
CUNY, Queens C.	262	12,386	253	251	8,529	221	1,475	878	172	0	0	607
Louisiana State U., Health Sciences Center, Shreveport	263	12,359	0	0	12,359	0	0	0	0	0	0	0
CUNY, Graduate School of Public Health and Health Policy	264	12,254	0	0	11,244	0	0	1,010	0	0	0	0
Texas Tech U., Health Sciences Center	265	12,148	0	0	12,114	0	0	0	0	0	0	34
American U.	266	12,076	146	493	292	563	3,136	127	3,675	632	0	3,012
U. Texas Health Science Center, Tyler	267	12,007	0	0	12,007	0	0	0	0	0	0	0
U. Colorado Denver <sup>C</sup>	268	11,866	411	330	1,487	1,119	1,561	706	292	0	3,152	2,808
CUNY, Advanced Science Research Center	269	11,840	0	877	4,399	0	4,719	0	0	0	1,845	0

TABLE 25

**Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Baltimore	270	11,692	46	0	0	0	45	0	757	0	0	10,844
U. South Dakota	271	11,664	86	0	8,496	0	1,754	461	13	0	731	123
South Dakota School of Mines and Technology	272	11,587	33	0	0	216	1,504	0	0	0	9,834	0
Hampton U.	273	11,517	994	2,881	1,685	344	3,409	0	1,041	0	827	336
Xavier U. Louisiana	274	11,213	652	0	2,040	0	8,325	0	0	0	57	139
California State U., Long Beach	275	11,178	90	220	2,651	446	2,574	1,411	515	0	2,942	329
California Polytechnic State U., San Luis Obispo	276	11,163	436	973	3,178	2,147	932	0	483	0	2,636	378
Baylor U.	277	11,025	101	408	5,327	408	2,661	313	27	36	1,598	146
Texas A&M U.-Corpus Christi	278	10,967	258	3,075	2,899	0	808	0	265	137	2,340	1,185
New York Medical C.	279	10,739	0	0	10,739	0	0	0	0	0	0	0
North Carolina Central U.	280	10,676	0	171	5,699	0	2,990	0	12	0	959	845
Nova Southeastern U.	281	10,386	0	5,135	5,098	0	0	153	0	0	0	0
U.S. Naval Academy	282	10,247	684	613	0	847	1,499	0	0	0	6,604	0
Loma Linda U.	283	10,116	0	0	9,436	0	0	595	0	0	0	85
Northeast Ohio Medical U.	284	9,999	0	0	9,982	0	0	0	17	0	0	0
Charles R. Drew U. of Medicine and Science	285	9,945	0	0	9,945	0	0	0	0	0	0	0
Illinois State U.	286	9,787	76	381	3,685	119	923	0	10	0	0	4,593
Prairie View A&M U.	287	9,566	188	0	5,337	81	807	0	17	0	2,885	251
Miami U.	288	9,412	68	496	3,131	269	2,638	998	722	0	532	558
Rosalind Franklin U. of Medicine and Science	289	9,357	0	0	9,041	0	0	316	0	0	0	0
California State U., East Bay	290	9,275	0	142	773	163	1,574	92	1,414	0	0	5,117
Texas A&M U.-Kingsville	291	9,265	12	0	4,752	0	87	48	0	0	2,923	1,443
Northern Illinois U.	292	9,080	669	676	1,088	31	3,668	849	177	0	1,856	66
U. Akron	293	9,024	32	194	550	117	4,026	43	6	0	3,985	71
Missouri State U.	294	8,931	15	146	1,411	0	258	28	198	0	6,872	3
California State U., San Marcos	295	8,831	620	0	311	0	1,060	924	565	2,766	1,680	905
Creighton U.	296	8,585	493	0	6,649	129	881	121	153	0	0	159

TABLE 25

## Federally financed higher education R&amp;D expenditures, ranked by all federal R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Chapman U.	297	8,574	0	242	5,563	0	936	1,023	109	0	8	693
Teachers C., Columbia U.	298	8,521	1,570	0	1,660	0	0	593	4,698	0	0	0
East Tennessee State U.	299	8,358	0	0	8,010	37	134	14	14	0	101	48
U. Maryland, Eastern Shore	300	8,346	0	4,182	4,039	0	0	0	0	0	125	0
U. Massachusetts, Dartmouth	301	8,223	60	4,040	211	380	485	0	16	0	2,434	597
Tennessee Technological U.	302	7,625	1,543	21	1,621	0	672	0	12	0	3,392	364
St. Edward's U.	303	7,600	600	359	1,400	600	1,021	0	0	0	0	3,620
Alcorn State U.	304	7,593	0	0	3,883	0	0	0	3,532	0	178	0
Oakland U.	305	7,426	613	0	3,422	55	2,062	321	0	0	953	0
California State U., Los Angeles	306	7,342	218	23	554	26	4,085	0	959	0	1,067	410
U. North Florida	307	7,267	304	11	720	0	352	201	13	0	316	5,350
Bowling Green State U.	308	7,263	22	1,495	1,140	82	1,402	22	991	0	35	2,074
Clarkson U.	309	7,246	700	77	565	524	422	7	0	0	4,577	374
Idaho State U.	310	7,216	503	1,136	2,035	0	1,034	266	63	0	2,022	157
SUNY, C. of Environmental Science and Forestry	311	6,979	22	551	5,510	0	303	0	13	68	396	116
U. Arkansas, Little Rock	312	6,939	3,089	0	1,978	0	590	0	73	0	708	501
Central Michigan U.	313	6,919	0	316	4,171	1	1,814	125	111	286	95	0
U. North Carolina, Wilmington	314	6,852	209	1,318	2,861	20	419	212	778	0	297	738
U. of the District of Columbia	315	6,851	242	82	1,896	447	0	0	0	0	3,134	1,050
Louisiana Tech U.	316	6,428	396	0	562	314	378	298	169	0	4,117	194
Montana Technological U.	317	6,133	0	1,056	305	0	133	0	0	0	4,639	0
Alabama A&M U.	318	5,967	235	0	3,508	49	478	126	142	0	1,204	225
U. Tulsa	319	5,876	2,365	151	330	0	125	72	71	0	2,410	352
California State U., San Bernardino	320	5,867	182	51	199	184	1,809	820	18	0	0	2,604
Villanova U.	321	5,826	148	162	960	28	1,412	273	0	0	2,122	721
U. Missouri, Saint Louis	322	5,812	100	0	3,443	371	1,007	55	323	0	0	513
Sam Houston State U.	323	5,632	0	85	1,212	417	298	144	316	0	0	3,160
Lincoln U., Jefferson City	324	5,621	6	60	5,444	90	0	0	21	0	0	0

TABLE 25

**Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Western U. of Health Sciences	325	5,620	0	0	5,020	0	0	0	0	0	0	600
California State U., Sacramento	326	5,582	219	700	379	34	130	54	63	53	2,687	1,263
Texas Southern U.	327	5,562	106	79	3,112	167	1,036	425	0	0	27	610
Naval War C.	328	5,542	0	0	0	0	0	0	794	0	0	4,748
U. Hawaii, Hilo	329	5,510	91	1,157	3,113	753	64	0	109	223	0	0
Clark Atlanta U.	330	5,355	103	0	3,496	265	1,407	0	0	0	11	73
U. Minnesota, Duluth	331	5,325	136	199	3,952	210	337	0	107	0	341	43
Duquesne U.	332	5,020	0	241	3,706	49	426	0	13	0	0	585
Rhode Island C.	333	4,894	24	0	1,043	0	320	83	0	0	0	3,424
Virginia State U.	334	4,846	0	8	3,350	217	0	95	0	0	321	855
Winston-Salem State U.	335	4,841	251	0	2,515	0	871	356	197	0	0	651
U.S. Army War C.	336	4,662	i 0 i	0 i	0 i	0 i	0 i	0 i	4,662 i	0 i	0 i	0 i
Tarleton State U.	337	4,620	0	431	3,983	0	0	0	0	206	0	0
California State U., Fullerton	338	4,551	143	94	1,943	127	1,058	139	55	446	530	16
Morehouse C.	339	4,533	540	0	90	949	1,831	59	0	633	0	431
DePaul U.	340	4,518	1,396	246	423	0	235	2,166	0	0	0	52
U. Tennessee, Chattanooga	341	4,507	879	0	594	147	0	0	8	214	2,574	91
CUNY, Brooklyn C.	342	4,505	290	13	1,341	65	1,297	1,328	1	0	0	170
Florida Gulf Coast U.	343	4,467	13	1,329	954	0	106	3	5	0	0	2,057
Texas Christian U.	344	4,448	86	121	341	0	321	179	28	2,900	8	464
Fort Valley State U.	345	4,429	0	18	4,313	22	76	0	0	0	0	0
California State Polytechnic U., Pomona	346	4,396	335	118	1,607	20	1,105	19	0	23	1,040	129
Western Washington U.	347	4,290	343	1,041	175	227	1,321	112	188	326	230	327
Arkansas State U., Jonesboro	348	4,249	95	0	2,909	0	537	40	153	267	248	0
Central State U.	349	4,165	0	102	3,552	69	67	0	0	164	211	0
Middle Tennessee State U.	350	4,150	283	0	1,394	316	1,769	72	164	0	100	52
Montclair State U.	351	4,146	107	508	1,115	317	466	236	62	0	5	1,330
C. Charleston	352	4,126	242	918	894	0	847	0	4	862	72	287
West Virginia State U.	353	4,119	2	0	4,117	0	0	0	0	0	0	0
California State U., Fresno	354	4,101	141	371	698	444	1,192	116	157	0	474	508

TABLE 25

## Federally financed higher education R&amp;D expenditures, ranked by all federal R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Fordham U.	355	4,076	101	0	717	70	251	1,883	91	0	0	963
U. of Health Sciences and Pharmacy in St. Louis	356	4,063	0	0	4,063	0	0	0	0	0	0	0
Wesleyan U.	357	4,032	0	322	581	327	1,429	782	11	0	0	580
Norfolk State U.	358	3,976	1,957	0	88	29	763	0	58	0	1,081	0
U. Arkansas, Pine Bluff	359	3,960	0	0	3,065	0	895	0	0	0	0	0
U. Colorado Colorado Springs	360	3,942	1,921	127	741	0	131	256	17	0	488	261
Fisk U.	361	3,940	415	0	1,579	407	1,525	0	0	0	0	14
South Carolina State U.	362	3,933	108	0	1,416	0	1,000	0	0	0	712	697
U. Detroit Mercy	363	3,917	0	0	3,709	0	0	42	0	0	64	102
U. New England	364	3,864	0	411	3,453	0	0	0	0	0	0	0
Southern Illinois U., Edwardsville	365	3,844	11	546	1,631	33	315	0	56	0	208	1,044
California State U., Bakersfield	366	3,827	0	40	61	1,827	159	317	12	0	751	660
California State U., Monterey Bay	367	3,813	721	837	2,186	12	57	0	0	0	0	0
National Defense U.	368	3,786	0	0	400	0	0	0	2,186	0	0	1,200
Southern U. and A&M C., Baton Rouge	369	3,770	473	0	395	50	292	0	0	0	2,185	375
Colorado C.	370	3,725	0	96	97	0	4	0	0	0	0	3,528
Kentucky State U.	371	3,716	15	2	3,506	193	0	0	0	0	0	0
U. New Orleans	372	3,674	451	680	245	131	1,171	0	500	184	204	108
Southern U. and A&M C., Agricultural Research and Extension Center	373	3,588	0	0	3,588	0	0	0	0	0	0	0
Barnard C.	374	3,527	107	156	897	0	1,246	960	56	0	0	105
CUNY, John Jay C. of Criminal Justice	375	3,519	10	0	48	12	235	109	289	47	0	2,769
Wellesley C.	376	3,469	500	77	1,418	262	286	254	327	0	345	0
U. Washington, Tacoma	377	3,459	216	2,290	241	25	0	0	44	0	314	329
CUNY, Lehman C.	378	3,382	0	0	146	328	1,964	0	168	0	0	776
Georgia Southern U.	379	3,373	99	253	1,414	67	580	0	73	8	804	75
Salisbury U.	380	3,271	101	57	88	0	148	0	22	0	0	2,855



TABLE 25

## Federally financed higher education R&amp;D expenditures, ranked by all federal R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Western Illinois U.	381	3,163	0	0	2,152	0	63	0	168	0	780	0
Kennesaw State U.	382	3,104	125	0	636	57	427	13	409	606	289	542
Toyota Technological Institute, Chicago	383	3,090	3,090	0	0	0	0	0	0	0	0	0
Langston U.	384	3,089	0	0	2,873	0	26	0	0	0	0	190
U. Washington, Bothell	385	2,956	119	331	468	0	681	0	0	0	304	1,053
Rutgers, State U. New Jersey, Camden	386	2,905	2,111	0	0	61	0	0	669	0	0	64
Clark U.	387	2,754	17	271	898	0	717	50	801	0	0	0
Murray State U.	388	2,721	0	35	2,159	306	141	0	0	0	0	80
Long Island U.	389	2,686	5	150	2,207	0	123	53	0	0	0	148
Middlebury C.	390	2,639	241	413	999	0	644	180	162	0	0	0
Northwest Indian C.	391	2,621	1	1,084	108	0	0	0	1,096	0	0	332
Dakota State U.	392	2,603	2,443	32	80	0	48	0	0	0	0	0
U. San Diego	393	2,554	0	101	28	481	658	18	19	0	692	557
Pace U.	394	2,536	598	0	298	0	0	0	0	0	626	1,014
MGH Institute of Health Professions	395	2,500	0	0	2,500	0	0	0	0	0	0	0
CUNY, Graduate Center	396	2,496	22	0	92	332	518	370	589	328	0	245
U. Central del Caribe	397	2,492	0	0	2,492	0	0	0	0	0	0	0
Ball State U.	398	2,469	22	0	1,336	16	449	80	196	0	0	370
Haverford C.	399	2,455	16	79	98	12	2,216	34	0	0	0	0
Smith C.	400	2,433	320	5	775	111	334	133	0	0	571	184
James Madison U.	401	2,379	26	125	1,031	15	919	0	19	0	54	190
U. Michigan, Dearborn	402	2,366	0	0	215	149	6	0	0	89	1,907	0
Johnson C. Smith U.	403	2,365	12	0	437	0	318	0	0	0	386	1,212
Occidental C.	404	2,348	280	510	367	97	522	352	156	0	0	64
Western Kentucky U.	404	2,348	0	284	889	4	717	275	55	0	82	42
Alabama State U.	406	2,338	0	0	2,265	0	0	0	0	0	73	0
U. North Carolina, Asheville	407	2,322	284	93	953	0	443	2	0	0	0	547
Oklahoma State U., Center for Health Sciences	408	2,304	0	0	1,934	0	0	338	0	0	32	0

TABLE 25

## Federally financed higher education R&amp;D expenditures, ranked by all federal R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Pennsylvania State U., Behrend	409	2,286	77	706	176	166	138	104	37	0	610	272
Purdue U., Northwest	410	2,280	836	0	155	0	102	0	0	40	1,032	115
California State U., Chico	411	2,258	0	414	267	0	166	0	91	0	768	552
Eastern Michigan U.	412	2,237	0	64	1,677	78	98	0	31	0	81	208
CUNY, C. Staten Island	413	2,234	54	0	849	308	478	310	0	0	235	0
Sonoma State U.	414	2,212	0	1,412	298	226	209	53	0	14	0	0
Youngstown State U.	415	2,198	28	0	20	0	321	54	33	0	1,261	481
West Texas A&M U.	416	2,195	161	676	236	0	169	0	0	0	673	280
Loyola Marymount U.	417	2,170	0	24	243	70	104	623	275	0	0	831
Northern Kentucky U.	418	2,156	3	0	1,374	59	401	308	10	0	0	1
Gallaudet U.	419	2,140	1,364	1	372	1	92	158	142	0	0	10
Seton Hall U.	420	2,137	0	0	607	0	396	0	0	0	0	1,134
SUNY, C. of Optometry	421	2,105	0	0	2,105	0	0	0	0	0	0	0
Tougaloo C.	422	2,092	i 0	i 0	i 1,733	i 0	i 359	i 0	i 0	i 0	i 0	i 0
Bates C.	423	2,079	19	26	1,610	0	227	78	119	0	0	0
Pacific U.	424	2,072	0	0	1,288	3	233	0	4	0	0	544
U. New Haven	425	2,069	1,117	80	45	0	216	232	298	0	81	0
U. Southern Maine	426	2,020	0	7	143	11	0	0	1,827	0	32	0
California State U., Dominguez Hills	427	2,001	547	0	61	61	317	292	250	0	0	473
U. Northern Iowa	428	1,995	0	0	48	0	894	0	1,036	0	0	17
Hope C.	429	1,992	0	18	408	23	1,276	0	0	0	232	35
Fayetteville State U.	430	1,988	334	0	30	0	147	0	180	0	288	1,009
New York Institute of Technology	430	1,988	183	0	1,118	0	3	0	0	0	666	18
Humboldt State U.	432	1,975	27	334	1,020	0	7	0	379	0	208	0
St. John's U., New York	433	1,950	59	0	1,541	0	304	27	0	0	0	19
U. Northern Colorado	434	1,942	0	120	622	91	83	55	391	0	0	580
Santa Clara U.	435	1,930	0	0	410	15	454	0	63	0	814	174
Reed C.	436	1,916	i 65	i 0	i 1,252	i 160	i 159	i 97	i 2	i 0	i 0	i 181
Northeastern Illinois U.	437	1,913	46	68	1,111	71	34	0	40	0	0	543

TABLE 25

## Federally financed higher education R&amp;D expenditures, ranked by all federal R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Albany C. of Pharmacy and Health Sciences	438	1,900	0	0	1,900	0	0	0	0	0	0	0
Saginaw Valley State U.	439	1,899	1	0	1,137	616	22	0	13	0	110	0
William Paterson U.	440	1,893	0	309	210	0	0	93	628	0	0	653
Spelman C.	441	1,886	13	0	633	96	523	568	53	0	0	0
U. South Carolina, Aiken	442	1,884	0	0	554	0	4	0	0	0	1,322	4
Lamar U.	443	1,873	33	0	357	83	49	0	0	0	635	716
U. Wisconsin-Superior	444	1,843	0	11	1,800	0	0	0	0	0	32	0
Bowdoin C.	445	1,836	74	310	1,002	5	252	123	1	0	0	69
Texas Tech U., Health Sciences Center, El Paso	446	1,831	0	0	1,566	0	0	0	0	0	0	265
Savannah State U.	447	1,804	0	815	268	0	34	0	0	99	588	0
Central Washington U.	448	1,778	177	1,066	128	149	213	0	0	0	45	0
U. Wisconsin-Stevens Point	449	1,776	0	57	1,573	0	14	0	0	0	132	0
U. Texas of the Permian Basin	450	1,762	0	0	962	0	0	18	360	0	270	152
Towson U.	451	1,758	416	481	323	94	300	106	23	0	0	15
Fort Lewis C.	452	1,746	0	24	353	4	786	0	0	0	563	16
Hawaii Pacific U.	453	1,741	72	252	1,211	0	0	0	193	0	13	0
Skidmore C.	454	1,739	0	202	873	0	557	107	0	0	0	0
Palmer C. of Chiropractic, Davenport	455	1,733	0	0	1,733	0	0	0	0	0	0	0
Morehead State U.	456	1,727	0	7	782	0	0	0	164	0	756	18
Citadel Military C. South Carolina	457	1,714	1,023	0	77	0	7	15	0	0	136	456
Western Carolina U.	458	1,697	0	233	998	3	0	0	154	0	237	72
Bucknell U.	459	1,696	82	0	354	104	592	0	8	13	543	0
Appalachian State U.	460	1,694	323	144	473	0	171	124	78	0	0	381
CUNY, Baruch C.	461	1,691	45	8	749	203	253	227	197	0	0	9
U. Central Arkansas	462	1,640	358	0	386	16	375	0	0	0	0	505
New England C. of Optometry	463	1,623	0	0	1,623	0	0	0	0	0	0	0
Pennsylvania State U., Harrisburg	464	1,616	1	22	1,278	2	0	59	16	0	219	19

TABLE 25

**Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Elizabeth City State U.	465	1,603	466	0	751	0	0	49	0	0	0	337
Mount Holyoke C.	466	1,539	150	0	434	57	434	384	80	0	0	0
U. Richmond	467	1,534	0	217	604	0	280	236	185	0	0	12
U. Central Oklahoma	468	1,516	i 139	i 0	i 302	i 98	i 683	i 0	i 0	i 106	i 1	i 187
Texas Woman's U.	469	1,514	11	0	991	0	7	0	0	0	0	505
Yeshiva U.	470	1,509	0	0	1,256	0	253	0	0	0	0	0
Colorado State U., Pueblo	471	1,508	190	0	1,248	19	0	0	0	0	51	0
Midwestern U.	472	1,506	0	4	1,502	0	0	0	0	0	0	0
Indiana U. Pennsylvania	473	1,503	34	32	989	0	255	50	72	0	0	71
Carleton C.	474	1,499	40	759	115	17	230	226	106	0	0	6
Christopher Newport U.	475	1,497	0	0	70	172	546	43	0	0	656	10
Winthrop U.	476	1,495	36	0	103	0	316	43	164	17	0	816
Troy U.	477	1,488	0	31	216	0	1,094	0	0	0	0	147
U. Louisiana, Monroe	478	1,465	0	61	1,232	0	10	0	162	0	0	0
Harvey Mudd C.	479	1,443	512	0	316	33	257	0	0	69	256	0
Colgate U.	480	1,440	180	580	331	65	259	0	25	0	0	0
Bryn Mawr C.	481	1,429	134	0	194	121	325	0	0	0	0	655
Grand Valley State U.	482	1,415	6	331	784	23	172	29	62	0	0	8
Swarthmore C.	483	1,414	0	0	428	79	655	53	43	21	50	85
Bowie State U.	484	1,398	446	0	96	0	438	0	0	0	0	418
Touro U.	485	1,377	0	0	1,375	0	0	0	0	0	0	2
Amherst C.	486	1,375	35	41	527	187	476	109	0	0	0	0
Franklin and Marshall C.	487	1,363	0	0	676	47	415	9	216	0	0	0
California State U., Stanislaus	488	1,354	186	0	702	253	60	118	35	0	0	0
Trinity C., Hartford	489	1,348	0	0	885	54	86	281	41	0	1	0
U. Nebraska, Kearney	490	1,327	0	0	1,126	0	130	30	0	0	0	41
New School	491	1,324	0	143	35	0	0	318	42	0	422	364
U. of St. Thomas (MN)	492	1,321	323	222	113	28	70	0	0	0	565	0
U. of the Sciences Philadelphia	493	1,320	0	0	900	0	420	0	0	0	0	0
U. Virginia's C. Wise	494	1,307	1,174	0	111	0	18	0	4	0	0	0
Texas A&M U.-Commerce	495	1,283	53	0	165	0	834	30	3	0	0	198

TABLE 25

## Federally financed higher education R&amp;D expenditures, ranked by all federal R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
SUNY, Geneseo	496	1,273	0	115	61	0	888	112	11	0	0	86
U. Oklahoma, Tulsa	497	1,267	0	0	260	0	0	0	0	0	421	586
Hofstra U.	498	1,266	45	50	385	0	2	0	0	0	478	306
Dillard U.	499	1,257	0	87	464	0	252	0	38	0	0	416
Texas A&M International U.	500	1,243	0	0	65	64	101	0	632	276	65	40
Roger Williams U.	501	1,202	0	466	378	0	0	111	0	0	17	230
U. Puerto Rico, Cayey	501	1,202	0	0	316	0	127	0	28	731	0	0
Keck Graduate Institute	503	1,201	i 0	i 0	i 940	i 0	i 0	i 0	i 0	i 0	i 238	i 23
CUNY, New York City C. of Technology	504	1,197	156	0	311	0	319	0	5	0	93	313
U. Houston-Downtown	505	1,169	175	35	0	17	88	0	0	0	189	665
Saint Joseph's U.	506	1,158	155	0	362	0	0	20	115	0	0	506
Claremont Graduate U.	507	1,152	0	0	0	111	0	123	392	0	0	526
Williams C.	507	1,152	i 62	i 105	i 420	i 241	i 268	i 0	i 56	i 0	i 0	i 0
Davidson C.	509	1,151	0	0	259	6	245	522	80	0	0	39
U. Puerto Rico, Humacao	510	1,137	0	17	111	0	899	110	0	0	0	0
Black Hills State U.	511	1,124	295	0	650	0	103	0	0	0	0	76
U. of the Pacific	512	1,106	0	43	606	0	223	6	0	0	228	0
Seattle U.	513	1,102	0	54	29	90	79	0	0	0	10	840
New Mexico Highlands U.	514	1,085	i 141	i 198	i 178	i 0	i 568	i 0	i 0	i 0	i 0	i 0
U. Wisconsin-Oshkosh	515	1,083	0	114	630	0	222	0	0	0	73	44
C. New Jersey	516	1,079	175	0	347	10	351	0	0	0	133	63
Trinity U.	517	1,078	26	14	184	37	586	231	0	0	0	0
U. of the Incarnate Word	518	1,076	0	0	597	42	298	0	0	0	139	0
U. Illinois, Springfield	519	1,071	0	0	1	0	15	0	1,040	0	0	15
U. Alaska, Southeast	520	1,046	0	176	745	0	47	0	0	78	0	0
Doane U.	521	1,034	i 189	i 0	i 555	i 0	i 67	i 0	i 0	i 0	i 1	i 222
Stephen F. Austin State U.	522	1,029	0	0	680	93	0	0	41	0	0	215
Furman U.	523	1,028	0	33	307	0	523	165	0	0	0	0
Drake U.	524	1,016	0	0	123	27	200	0	21	0	0	645
Augustana U.	525	1,013	0	0	546	0	457	0	0	0	0	10
Claflin U.	526	1,005	173	26	505	0	129	0	107	0	65	0

TABLE 25

## Federally financed higher education R&amp;D expenditures, ranked by all federal R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
California State U., Channel Islands	527	993	0	0	143	268	73	0	0	390	79	40
SUNY, Buffalo State	528	977	0	834	29	112	0	0	2	0	0	0
Union C., Schenectady	529	976	57	198	4	0	122	0	0	0	595	0
U. Hawaii, Maui C.	530	951	446	144	241	0	0	0	10	0	0	110
Coastal Carolina U.	531	948	91	509	216	0	60	0	0	0	68	4
Calvin U.	532	942	i 11	i 0	i 457	i 33	i 395	i 0	i 0	i 0	i 21	i 25
Alfred U.	533	939	0	1	0	0	5	0	0	0	933	0
Pomona C.	534	930	118	42	202	135	263	122	48	0	0	0
U. Texas, Tyler	535	929	13	0	781	2	0	0	18	0	115	0
U. Ana G. Mendez, Gurabo	536	926	0	0	230	0	29	0	0	0	667	0
CUNY, York C.	537	922	0	472	71	0	186	159	0	0	1	33
Vassar C.	538	918	142	0	87	301	138	216	34	0	0	0
U. Wisconsin-Eau Claire	539	909	0	5	42	49	641	172	0	0	0	0
Willamette U.	540	896	0	0	367	0	83	36	0	0	0	410
U. Wisconsin-La Crosse	541	895	31	1	397	70	323	0	73	0	0	0
Keene State C.	542	894	47	0	510	0	223	0	0	0	114	0
U. Wisconsin-Green Bay	543	876	33	i 48	i 487	i 7	i 66	i 17	i 20	i 0	i 167	i 31
U. Houston-Clear Lake	544	865	23	0	478	0	208	111	45	0	0	0
Pepperdine U.	545	835	0	0	282	0	0	100	28	0	0	425
Abilene Christian U.	546	827	0	0	0	0	712	0	0	0	45	70
SUNY, C. Plattsburgh	547	824	0	400	279	0	107	0	0	0	0	38
American Samoa Community C.	548	815	0	0	0	0	0	0	815	0	0	0
La Sierra U.	549	812	0	0	0	0	0	0	0	0	0	812
Southeastern Louisiana U.	550	795	0	0	429	0	145	0	0	0	8	213
Fielding Graduate U.	551	791	0	0	0	0	0	0	791	0	0	0
Eastern Washington U.	552	775	0	46	414	0	62	0	250	0	0	3
Erikson Institute	553	772	0	0	0	0	0	0	0	0	0	772
CUNY, system office	554	768	0	0	37	0	0	0	0	0	731	0
U. Hartford	555	766	1	0	77	100	0	0	3	0	585	0
Pittsburg State U.	556	759	0	0	258	0	24	0	163	0	314	0

TABLE 25

## Federally financed higher education R&amp;D expenditures, ranked by all federal R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Hobart and William Smith Colleges	557	758	0	19	630	5	104	0	0	0	0	0
Milwaukee School of Engineering	558	751	47	0	0	0	0	0	0	0	704	0
Colby C.	559	750	78	144	217	0	184	0	0	0	0	127
Mercyhurst U.	560	745	41	23	559	11	75	10	13	0	0	13
Northwestern State U. Louisiana	561	738	0	0	0	0	0	0	738	0	0	0
Grambling State U.	562	731	0	0	0	0	436	0	0	0	0	295
Biola U.	563	714	34	0	459	9	61	8	11	4	117	11
Southern Connecticut State U.	564	713	0	63	128	0	333	80	0	9	0	100
Lewis and Clark C.	565	702	0	278	258	56	110	0	0	0	0	0
Northland C.	566	697	0	56	450	35	0	49	25	0	0	82
Ithaca C.	567	685	73	20	187	74	246	0	85	0	0	0
Mills C.	568	683	0	0	0	0	0	0	0	0	0	683
Sacred Heart U.	569	675	7	8	0	0	64	0	0	24	0	572
Central Connecticut State U.	570	663	0	74	97	0	41	0	225	0	71	155
U. California, Office of the President	571	653	0	0	342	0	0	0	0	37	0	274
Claremont McKenna C.	572	637	0	17	274	103	136	107	0	0	0	0
Franklin W. Olin C. of Engineering	573	636	0	0	0	0	0	0	0	0	636	0
Suffolk U.	574	634	0	28	33	0	69	438	0	0	66	0
Macalester C.	575	617	0	172	10	100	335	0	0	0	0	0
West Chester U. Pennsylvania	576	608	0	0	310	0	135	41	0	0	0	122
Austin Peay State U.	577	597	0	136	411	0	50	0	0	0	0	0
Canisius C.	577	597	0	0	0	0	173	0	0	424	0	0
Dordt U.	579	594	69	0	412	84	0	0	0	0	29	0
Indiana State U.	580	582	0	73	86	37	86	0	0	10	0	290
St. Cloud State U.	581	577	182	0	91	0	0	0	0	0	0	304
Minnesota State U., Mankato	582	575	0	6	300	0	9	90	0	0	170	0
Providence C.	583	574	0	144	311	0	67	35	0	0	17	0

TABLE 25

## Federally financed higher education R&amp;D expenditures, ranked by all federal R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Albany State U.	584	552	0	22	232	0	102	0	0	0	14	182
California State U., Maritime Academy	585	548	0	0	0	0	0	0	0	0	450	98
Edward Via C. of Osteopathic Medicine	586	537	0	0	537	0	0	0	0	0	0	0
Eastern Kentucky U.	587	530	0	2	349	0	115	8	0	0	56	0
National U. of Natural Medicine	588	523	0	0	523	0	0	0	0	0	0	0
Lafayette C.	589	508	46	0	55	13	231	70	0	0	84	9
Oberlin C.	590	505	30	25	214	39	190	7	0	0	0	0
Sul Ross State U.	590	505	i 0	i 0	i 486	i 0	i 0	i 0	i 19	i 0	i 0	i 0
SUNY, C. Brockport	592	500	0	231	213	0	54	0	2	0	0	0
U. North Georgia	593	497	335	59	39	0	2	0	0	0	0	62
Stockton U.	594	486	0	239	247	0	0	0	0	0	0	0
Des Moines U.	595	485	i 0	i 1	i 286	i 0	i 0	i 0	i 172	i 0	i 0	i 26
U. of Mary Washington	595	485	19	29	119	4	75	0	0	0	0	239
Fort Hays State U.	597	482	0	95	226	0	159	0	0	0	0	2
Florida Polytechnic U.	598	459	112	0	0	0	0	0	0	0	312	35
Connecticut C.	599	439	65	0	89	0	97	64	124	0	0	0
West Virginia School of Osteopathic Medicine	600	423	0	0	418	0	0	0	0	0	0	5
SUNY, Oswego	601	415	38	58	72	0	228	0	0	10	9	0
U. North Carolina, general administration	602	408	13	0	12	0	0	11	0	0	306	66
Purdue U., Fort Wayne	603	401	0	0	44	5	82	123	0	0	125	22
Manhattan C.	604	397	0	0	0	217	112	0	0	0	68	0
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	605	376	0	0	376	0	0	0	0	0	0	0
Arcadia U.	606	371	84	0	94	0	0	0	0	0	0	193
Northern Michigan U.	607	366	37	100	163	0	0	49	17	0	0	0
Kean U.	608	362	151	61	18	0	0	0	0	12	0	120
Kettering U.	609	353	0	0	0	0	14	0	0	0	3	336



TABLE 25

## Federally financed higher education R&amp;D expenditures, ranked by all federal R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Wisconsin-Platteville	609	353	22	0	145	9	37	6	18	4	80	32
Grinnell C.	611	344	77	0	17	63	124	0	28	0	0	35
Marshall B. Ketchum U.	612	343	0	0	343	0	0	0	0	0	0	0
U. Massachusetts, central office	613	342	0	0	272	0	0	0	0	0	0	70
Indiana U., South Bend	614	337	0	1	0	0	256	0	5	0	0	75
Marymount U.	614	337	174	0	163	0	0	0	0	0	0	0
Philadelphia C. of Osteopathic Medicine	616	318	0	0	318	0	0	0	0	0	0	0
Heidelberg U.	617	308	0	308	0	0	0	0	0	0	0	0
C. Wooster	618	300	0	22	86	58	134	0	0	0	0	0
Pratt Institute	619	294	0	0	0	0	0	0	0	0	0	294
Albion C.	620	289	0	0	0	0	289	0	0	0	0	0
Hamilton C.	621	286	0	0	86	0	8	0	105	60	0	27
Lawrence Technological U.	622	284	54	0	0	9	48	0	0	0	141	32
St. Olaf C.	623	271	85	13	147	0	3	1	16	0	0	6
Andrews U.	624	256	0	32	0	0	174	0	0	0	50	0
U. San Francisco	625	255	0	113	19	15	84	0	24	0	0	0
Oregon Institute of Technology	626	252	20	24	123	9	0	5	0	0	71	0
Rhode Island School of Design	627	250	0	0	0	0	0	0	58	0	0	192
Jacksonville State U.	628	245	0	0	31	0	0	0	0	0	6	208
Lipscomb U.	629	222	0	0	0	0	0	0	0	0	203	19
Azusa Pacific U.	630	212	9	0	42	0	9	146	0	0	0	6
U. Wisconsin-River Falls	630	212	86	0	48	0	60	0	0	0	18	0
Alaska Pacific U.	632	189	0	158	29	0	0	0	0	0	0	2
Framingham State U.	633	188	0	0	0	0	177	11	0	0	0	0
Monmouth U.	634	174	0	86	16	0	15	12	45	0	0	0
U. Minnesota, Morris	635	162	0	140	0	0	0	0	0	0	0	22
Wheaton C., Wheaton	636	148	0	76	18	0	54	0	0	0	0	0
Fairfield U.	637	147	1	0	0	70	74	0	0	0	2	0
Elon U.	638	138	0	0	39	11	0	54	21	0	13	0

TABLE 25

**Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Liberty U.	639	120	0	0	45	0	0	0	0	0	75	0
U. Michigan, Flint	640	113	0	0	42	0	0	0	0	30	0	41
Eastern Connecticut State U.	641	108	0	0	108	0	0	0	0	0	0	0
Roseman U. of Health Sciences	642	53	0	0	53	0	0	0	0	0	0	0
C. of Saint Benedict	643	46 i	2 i	0 i	24 i	2 i	10 i	3 i	1 i	0 i	0 i	4 i
Niagara U.	644	34	0	0	0	0	0	0	21	0	0	13

i = imputed.

nec = not elsewhere classified; S&amp;E = science and engineering.

<sup>a</sup> Johns Hopkins University includes the Applied Physics Laboratory, with \$1,881,568 thousand in federally financed R&D expenditures in FY 2021.

<sup>b</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

<sup>c</sup> The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

<sup>d</sup> The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

**Note(s):**

Institutions reporting zero federal expenditures for FY 2021 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#). This table includes only institutions reporting \$1 million or more in total R&D expenditures in 2020. Institutions reporting less than \$1 million in total R&D expenditures in 2020 completed a shorter version of the survey form in FY 2021, and that form did not collect federally financed R&D expenditures by source and detailed field. For federally financed R&D expenditures by major field at institutions completing the shorter version of the survey, see [table 84](#).

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2021.

TABLE 26

**Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by federal agency: FY 2021**

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other <sup>a</sup>
All institutions	-	49,143,460	7,363,495	2,218,358	27,532,379	1,768,703	5,410,561	1,302,288	3,547,676
Johns Hopkins U. <sup>b</sup>	1	2,774,643	1,459,350	11,697	722,250	368,276	36,823	1,284	174,963
U. Washington, Seattle	2	1,046,377	100,320	37,322	694,428	20,873	115,139	7,815	70,480
U. Michigan, Ann Arbor	3	891,125	78,334	42,146	608,464	27,565	97,499	1,988	35,129
Georgia Institute of Technology	4	852,319	626,448	20,533	50,559	12,063	60,036	1,402	81,278
Columbia U. in the City of New York	5	831,648	49,219	21,961	642,785	20,968	89,066	71	7,578
Stanford U.	6	811,183	76,467	28,660	599,239	18,233	79,576	444	8,564
U. California, San Diego	7	801,117	79,587	24,307	446,030	10,171	90,861	1,472	148,689
U. Pennsylvania	8	792,089	51,902	10,770	663,458	4,250	47,054	1,014	13,641
Duke U.	9	776,632	61,602	16,169	634,171	2,454	33,567	512	28,157
U. North Carolina, Chapel Hill	10	747,895	24,324	7,609	603,949	1,868	40,150	2,659	67,336
U. Pittsburgh, Pittsburgh	11	724,993	45,446	10,401	623,521	1,951	29,667	92	13,915
U. California, Los Angeles	12	721,043	50,437	38,905	529,539	26,042	59,959	400	15,761
U. Maryland <sup>c</sup>	13	713,283	116,368	22,459	345,707	70,478	54,776	23,512	79,983
U. California, San Francisco	14	683,179	37,403	764	630,137	582	9,402	0	4,891
Yale U.	15	647,656	27,839	10,818	562,251	3,577	31,835	633	10,703
U. Wisconsin-Madison	16	646,764	33,479	75,231	374,530	11,307	90,800	26,285	35,132
Pennsylvania State U., University Park and Hershey Medical Center	17	622,532	263,661	36,453	149,293	15,518	68,873	32,604	56,130
Harvard U.	18	616,589	72,042	16,476	456,919	8,549	47,086	175	15,342
Washington U., Saint Louis	19	606,127	21,588	6,708	547,520	8,814	19,938	481	1,078
Cornell U.	20	592,359	49,165	21,928	350,981	7,536	110,332	37,981	14,436
Vanderbilt U. and Vanderbilt U. Medical Center	21	586,880	34,170	11,471	497,479	2,346	25,555	879	14,980
U. Southern California	22	574,185	126,122	9,045	367,995	3,338	49,721	52	17,912
Northwestern U.	23	572,975	45,744	28,064	432,853	3,213	53,359	307	9,435
U. Minnesota, Twin Cities	24	570,946	35,239	22,531	390,774	7,611	68,332	33,840	12,619
Ohio State U.	25	559,797	42,934	26,674	331,043	8,438	48,648	37,042	65,018
Icahn School of Medicine at Mount Sinai	26	554,582	26,220	0	525,054	601	1,293	115	1,299
New York U.	27	547,027	20,716	4,065	466,971	1,050	42,854	905	10,466
Texas A&M U., College Station and Health Science Center	28	528,057	59,476	37,592	205,735	9,126	111,581	39,429	65,118
Emory U.	29	515,940	9,227	3,028	484,428	1,135	13,948	215	3,959
U. Texas, Austin	30	489,827	191,082	52,059	110,282	13,954	97,303	533	24,614
Massachusetts Institute of Technology	31	483,526	128,158	71,739	138,517	36,195	93,738	0	15,179
U. Colorado Boulder	32	459,816	41,850	27,891	59,581	148,496	87,115	2,059	92,824
U. Alabama, Birmingham	33	423,290	37,913	3,487	360,322	9,847	6,607	260	4,854

TABLE 26

**Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by federal agency: FY 2021**

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other <sup>a</sup>
U. Florida	34	423,154	39,140	16,708	230,824	8,687	49,024	41,970	36,801
U. Illinois, Urbana-Champaign	35	406,612	58,649	84,115	85,578	10,081	120,001	19,849	28,339
Boston U.	36	402,443	17,764	6,138	327,940	8,154	33,284	389	8,774
U. Chicago	37	394,275	21,814	11,983	291,465	6,313	58,602	108	3,990
U. California, Davis	38	373,719	23,219	16,347	236,989	5,568	34,803	34,370	22,423
Baylor C. of Medicine	39	365,472	14,865	0	310,596	19,759	2,184	14,129	3,939
U. Colorado Anschutz Medical Campus <sup>d</sup>	40	363,999	16,740	0	334,018	0	3,108	49	10,084
U. California, Berkeley	41	354,478	42,813	42,232	137,347	41,499	63,624	3,468	23,495
U. Arizona	42	353,117	30,845	10,312	176,003	57,082	48,592	14,356	15,927
Michigan State U.	43	349,889	14,834	108,509	84,853	3,963	71,392	32,154	34,184
Case Western Reserve U.	44	340,438	17,288	5,500	303,061	3,948	9,028	292	1,321
U. Utah	45	340,434	27,748	40,128	223,690	3,666	38,298	879	6,025
Rutgers, State U. New Jersey, New Brunswick	46	339,015	14,435	10,601	214,876	3,426	41,762	31,334	22,581
Oregon Health and Science U.	47	329,016	10,623	10	316,461	99	1,150	26	647
Indiana U., Bloomington	48	326,326	15,118	6,110	252,908	1,108	39,460	267	11,355
U. Rochester	49	309,647	13,268	83,975	193,162	1,394	17,335	138	375
U. Cincinnati	50	309,097	13,647	3,057	273,764	717	8,595	81	9,236
Colorado State U., Fort Collins	51	303,901	98,372	17,255	55,483	7,984	27,501	46,659	50,647
U. Virginia, Charlottesville	52	297,273	35,252	13,594	189,567	4,060	35,864	1,236	17,700
Purdue U., West Lafayette	53	295,278	52,673	29,314	73,697	12,115	70,105	24,457	32,917
California Institute of Technology	54	293,197	30,794	22,422	88,419	57,283	88,858	0	5,421
U. Iowa	55	283,763	15,123	3,135	218,208	20,876	10,635	740	15,046
Uniformed Services U. of the Health Sciences	56	275,573	263,812	0	10,751	0	0	0	1,010
Arizona State U.	57	274,541	38,834	20,543	62,883	52,725	69,074	2,102	28,380
Scripps Research Institute	58	272,181	2,871	127	264,863	741	3,365	0	214
Utah State U.	59	264,575	129,190	4,773	9,357	40,570	9,915	9,611	61,159
U. Texas Southwestern Medical Center	60	257,611	7,868	235	245,041	2,003	1,384	10	1,070
U. California, Irvine	61	255,010	13,820	16,481	161,431	6,740	47,367	217	8,954
U. Massachusetts, Medical School	62	248,873	5,195	233	240,425	0	1,118	409	1,493
U. New Mexico	63	242,212	20,121	12,927	175,996	2,639	23,926	757	5,846
North Carolina State U.	64	239,115	33,180	36,753	42,874	2,234	55,951	42,046	26,077
U. Illinois, Chicago	65	237,949	11,082	8,289	185,421	655	21,630	209	10,663
Carnegie Mellon U.	66	234,993	90,404	17,358	38,510	3,942	70,532	1,009	13,238
U. Miami	67	231,001	21,486	918	166,311	2,812	9,921	86	29,467

TABLE 26

**Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by federal agency: FY 2021**

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other <sup>a</sup>
Woods Hole Oceanographic Institution	68	222,351	65,558	2,625	1,859	7,249	120,859	41	24,160
U. Kentucky	69	220,703	8,186	13,008	158,314	2,327	16,540	12,511	9,817
U. Texas M. D. Anderson Cancer Center	70	217,073	10,454	0	201,426	752	669	17	3,755
Virginia Polytechnic Institute and State U.	71	216,733	47,432	24,072	40,865	4,581	48,740	20,941	30,102
Albert Einstein C. of Medicine	72	214,619	5,391	0	209,219	0	9	0	0
SUNY, U. Buffalo	73	210,257	46,847	5,514	116,929	1,095	29,583	289	10,000
Princeton U.	74	205,000	30,518	22,575	56,755	14,005	66,663	752	13,732
Brown U.	75	198,574	18,197	6,729	138,141	3,692	26,053	0	5,762
U. Oklahoma, Norman and Health Science Center	76	193,639	9,113	7,286	79,772	37,080	13,514	1,222	45,652
Wake Forest U.	77	188,887	13,142	416	164,756	858	2,607	147	6,961
U. Georgia	78	188,451	4,879	13,002	91,326	1,269	30,420	33,772	13,783
U. Kansas	79	187,249	7,043	4,326	129,732	2,395	19,377	377	23,999
U. South Florida <sup>e</sup>	80	185,364	9,933	2,054	106,347	2,721	13,081	786	50,442
U. Connecticut	81	183,362	18,901	6,529	106,354	2,866	22,779	5,251	20,682
U. Dayton	82	181,445	104,393	3,748	260	804	838	2	71,400
Washington State U.	83	179,536	8,013	24,402	62,084	1,403	18,295	44,992	20,347
Oregon State U.	84	179,180	17,806	15,532	30,530	6,056	50,582	32,602	26,072
Iowa State U.	85	169,177	11,182	33,990	23,135	2,027	30,813	38,170	29,860
Tufts U.	86	166,809	8,350	2,692	86,649	928	13,665	13,500	41,025
U. Texas Health Science Center, Houston	87	165,139	9,075	0	149,561	424	773	1,962	3,344
U. Missouri, Columbia	88	163,576	13,439	7,295	80,698	409	14,915	22,400	24,420
SUNY, Stony Brook U.	89	162,972	8,461	21,913	81,821	3,707	40,234	12	6,824
Medical U. South Carolina	90	162,394	2,091	0	149,024	0	351	0	10,928
George Washington U.	91	161,349	9,612	3,772	121,841	1,354	13,487	141	11,142
Virginia Commonwealth U.	92	160,995	10,229	2,032	125,394	720	7,003	554	15,063
U. Hawaii, Manoa	93	157,772	29,477	5,551	47,305	11,971	29,782	9,056	24,630
U. Delaware	94	157,725	21,335	14,132	46,023	4,314	32,207	4,394	35,320
Temple U.	95	153,316	6,587	3,864	123,600	845	10,764	1,463	6,193
Dartmouth C. and Dartmouth Hitchcock Medical Center	96	152,335	9,831	3,534	114,245	4,560	18,918	253	994
Florida State U.	97	150,108	19,797	10,098	39,153	3,188	53,176	840	23,856
Northeastern U.	98	143,421	32,776	4,453	45,318	1,171	47,090	0	12,613
Medical C. Wisconsin	99	136,385	5,700	0	127,031	478	485	143	2,548
U. Tennessee, Knoxville	100	135,202	17,970	56,425	9,647	3,469	22,000	16,954	8,737
Georgetown U.	101	130,419	9,589	0	98,623	2,743	6,029	0	13,435

TABLE 26

**Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by federal agency: FY 2021**

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other <sup>a</sup>
U. Alaska, Fairbanks	102	128,229	29,220	8,845	7,990	21,739	36,484	2,554	21,397
U. California, Santa Barbara	103	122,168	32,274	12,311	16,720	5,881	47,941	412	6,629
Wayne State U.	104	117,976	4,757	2,072	95,588	110	10,172	489	4,788
U. Texas Medical Branch	105	117,915	6,352	0	109,569	973	792	51	178
U. Alabama, Huntsville	106	116,971	73,021	816	324	28,939	7,400	143	6,328
Mississippi State U.	107	116,713	31,014	5,816	9,107	1,351	9,215	31,679	28,531
U. Massachusetts, Amherst	108	116,349	16,646	6,227	38,102	3,206	34,549	7,605	10,014
Tulane U.	109	113,819	5,196	509	95,521	170	5,047	63	7,313
Montana State U., Bozeman	110	113,257	35,768	3,941	23,707	7,188	16,102	12,722	13,829
U. Nebraska, Medical Center	111	111,042	6,314	36	100,663	54	830	194	2,951
U. Notre Dame	112	109,891	28,768	13,369	27,114	1,265	28,682	429	10,264
Thomas Jefferson U.	113	109,448	3,110	0	106,020	259	12	0	47
U. Central Florida	114	109,310	39,374	6,503	18,835	9,402	23,480	669	11,047
U. Texas Health Science Center, San Antonio	115	106,824	7,457	0	94,870	372	337	0	3,788
U. Nebraska, Lincoln	116	106,564	6,907	9,512	27,311	698	27,251	20,979	13,906
Florida International U.	117	105,309	14,133	6,963	36,876	2,012	22,802	1,034	21,489
George Mason U.	118	103,712	51,849	1,002	15,039	7,646	12,345	160	15,671
U. Vermont	119	103,554	2,653	1,429	71,695	1,688	9,574	12,829	3,686
Louisiana State U., Baton Rouge	120	103,178	18,045	6,240	37,089	3,625	17,191	10,062	10,926
U. New Hampshire	121	99,323	4,042	3,234	23,219	24,077	14,761	7,980	22,010
U. South Carolina, Columbia	122	97,193	6,963	9,760	55,385	3,040	14,409	275	7,361
U. California, Riverside	123	97,182	7,006	6,803	37,048	1,939	26,166	12,071	6,149
U. Louisville	124	97,179	4,112	1,752	78,321	777	7,312	7	4,898
Rockefeller U.	125	96,318	3,185	0	91,791	18	1,318	0	6
Rice U.	126	95,648	18,504	8,951	22,430	3,817	35,401	123	6,422
Drexel U.	127	93,517	7,806	3,060	58,955	499	14,399	1,581	7,217
Auburn U., Auburn	128	91,157	18,413	6,372	15,778	6,492	10,226	18,227	15,649
Clemson U.	129	89,883	8,213	7,012	15,079	1,798	17,932	6,387	33,462
West Virginia U.	130	89,802	5,945	13,023	41,751	3,878	9,945	7,977	7,283
U. California, Santa Cruz	131	86,263	5,925	4,963	44,933	3,638	13,870	1,306	11,628
U. Arkansas for Medical Sciences	132	83,387	973	0	78,995	228	336	404	2,451
U. Oregon	133	82,242	2,699	6,447	44,837	964	14,016	722	12,557
Georgia State U.	134	79,834	1,085	1,477	53,947	781	8,515	259	13,770
U. Rhode Island	135	78,923	6,546	1,096	20,897	873	19,473	5,129	24,909

TABLE 26

**Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by federal agency: FY 2021**

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other <sup>a</sup>
Kansas State U.	136	77,779	4,250	9,016	15,633	678	14,066	22,553	11,583
U. Houston	137	77,489	5,634	8,249	37,957	2,935	14,994	83	7,637
Wichita State U.	138	77,427	40,514	244	6,050	1,670	1,698	221	27,030
U. Nevada, Reno	139	77,246	7,009	5,542	29,519	1,302	12,778	6,119	14,977
New Jersey Institute of Technology	140	77,057	16,638	1,106	11,135	2,513	10,324	243	35,098
U. Mississippi	141	76,886	6,843	674	55,055	751	3,939	5,986	3,638
Rush U.	142	73,279	388	0	72,659	168	64	0	0
U. Montana, Missoula	143	70,686	4,037	559	36,299	1,840	12,999	5,006	9,946
U. Louisiana, Lafayette	144	65,436	2,436	1,758	18,940	808	4,776	3,679	33,039
U. Maine	145	65,249	17,105	6,709	2,537	1,319	11,636	15,518	10,425
New Mexico State U.	146	64,699	20,082	7,214	8,028	3,974	12,458	9,378	3,565
Augusta U.	147	61,943	1,910	0	58,641	72	180	0	1,140
Colorado School of Mines	148	61,421	15,048	20,880	2,926	2,550	14,905	843	4,269
U. Maryland, Baltimore County	149	59,882	3,678	1,182	15,208	25,359	11,141	461	2,853
U. North Dakota	150	58,463	2,424	30,942	16,119	2,483	2,725	1,436	2,334
U. Texas, Dallas	151	58,249	11,441	4,106	25,506	2,254	14,529	25	388
Cold Spring Harbor Laboratory	152	56,907	1,154	1,279	47,891	0	4,826	1,626	131
SUNY, U. Albany	153	56,425	1,767	1,015	40,527	511	7,863	280	4,462
U. Tennessee, Health Science Center	154	56,021	2,837	0	52,273	0	115	0	796
Naval Postgraduate School	155	54,855	50,967	983	0	1,467	881	0	557
U. Wyoming	156	54,444	2,087	10,265	14,768	1,223	17,125	3,142	5,834
U. Alabama, Tuscaloosa	157	53,880	7,238	5,763	11,545	1,688	13,801	595	13,250
Rensselaer Polytechnic Institute	158	52,465	12,484	11,968	11,882	2,994	10,817	172	2,148
Brandeis U.	159	52,147	270	1,185	33,748	158	5,621	0	11,165
U. Idaho	160	51,021	1,073	5,409	8,987	2,339	14,048	14,711	4,454
U. Arkansas, Fayetteville	161	48,534	4,583	5,961	5,622	1,162	14,101	11,136	5,969
U. Massachusetts, Lowell	162	48,179	19,101	3,302	13,709	1,957	6,447	235	3,428
Oklahoma State U., Stillwater	163	47,428	4,199	7,152	9,313	1,729	9,134	10,229	5,672
Cleveland State U.	164	47,402	3,769	127	41,691	172	1,096	272	275
U. Texas, Arlington	165	46,946	8,786	2,462	10,353	1,753	9,340	225	14,027
U. Southern Mississippi	166	44,401	13,655	254	5,023	1,897	4,732	1,317	17,523
U. Texas, El Paso	167	43,930	6,445	2,302	14,720	2,699	11,223	454	6,087
San Diego State U.	168	43,473	4,150	1,148	27,182	804	7,803	167	2,219
U. Texas, San Antonio	169	42,952	5,252	5,954	14,320	2,341	8,001	295	6,789

TABLE 26

**Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by federal agency: FY 2021**

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other <sup>a</sup>
North Dakota State U.	170	42,824	4,605	556	7,105	112	9,637	12,525	8,284
Northern Arizona U.	171	41,744	8,665	1,889	10,356	3,977	9,634	4,199	3,024
Michigan Technological U.	172	41,505	17,082	5,838	2,305	4,344	6,820	1,291	3,825
Saint Louis U.	173	41,411	1,577	285	34,263	208	2,799	67	2,212
Florida A&M U.	174	36,761	945	1,649	5,692	258	4,413	8,232	15,572
Howard U.	175	35,443	2,624	253	24,932	225	6,166	0	1,243
Mercer U.	176	34,413	31,981	0	2,281	11	140	0	0
Louisiana State U., Health Sciences Center, New Orleans	177	34,272	189	0	32,938	59	481	0	605
Boston C.	178	34,257	5,438	929	16,891	160	6,635	0	4,204
CUNY, City C.	179	34,218	1,993	1,694	9,780	2,201	11,056	135	7,359
Syracuse U.	180	34,200	3,257	2,182	11,713	197	12,585	843	3,423
Stevens Institute of Technology	181	33,998	21,258	1,673	1,883	720	6,391	0	2,073
Texas Tech U.	182	33,938	6,600	5,014	5,899	2,812	7,510	2,321	3,782
U. Puerto Rico, Medical Sciences Campus	183	33,262	0	0	30,815	265	1,216	0	966
U. Toledo	184	32,601	5,014	2,865	14,760	4,620	2,637	1,066	1,639
U. North Texas, Health Science Center	185	32,464	724	0	29,933	9	42	16	1,740
U.S. Air Force Academy	186	31,818	31,818	0	0	0	0	0	0
Boise State U.	187	31,357	2,926	5,341	5,834	1,820	11,953	978	2,505
Rochester Institute of Technology	188	31,187	9,802	1,970	5,029	2,950	9,216	76	2,144
Texas State U.	189	31,116	3,690	188	4,348	4,032	4,006	657	14,195
San Jose State U.	190	30,877	1,049	488	1,957	20,113	1,698	97	5,475
Brigham Young U., Provo	191	30,439	5,306	4,949	7,274	1,765	8,317	807	2,021
Indiana U.-Purdue U., Indianapolis	192	30,290	1,338	831	18,586	118	6,271	125	3,021
Worcester Polytechnic Institute	193	30,166	8,391	2,733	4,175	348	10,889	301	3,329
William & Mary	194	29,928	1,729	2,534	1,569	285	6,095	253	17,463
Portland State U.	195	29,842	2,333	1,288	11,037	1,024	6,865	992	6,303
Lehigh U.	196	29,051	3,372	4,508	6,853	150	11,749	0	2,419
Florida Atlantic U.	197	28,510	5,985	519	8,977	592	4,111	2,351	5,975
SUNY, Downstate Health Sciences U.	198	27,620	1,228	0	26,289	0	38	0	65
U. Nevada, Las Vegas	199	27,178	377	3,057	9,163	2,095	4,880	1,997	5,609
U. North Carolina, Charlotte	200	27,145	3,599	3,259	5,850	109	10,744	236	3,348
Air Force Institute of Technology	201	27,025	24,584	167	0	2	0	0	2,272
Loyola U., Chicago	202	26,793	704	0	22,428	47	2,349	168	1,097
Missouri U. of Science and Technology	203	26,164	6,147	6,096	727	867	6,504	404	5,419



TABLE 26

## Federally financed higher education R&amp;D expenditures, ranked by all federal R&amp;D expenditures, by federal agency: FY 2021

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other <sup>a</sup>
North Carolina Agricultural and Technical State U.	204	25,755	2,554	1,270	3,283	1,098	9,073	5,837	2,640
Old Dominion U.	205	25,514	6,609	4,215	4,053	1,663	5,120	114	3,740
SUNY, Polytechnic Institute	206	25,427	20,113	1,140	1,362	114	2,311	0	387
Morehouse School of Medicine	207	25,181	0	0	24,533	0	463	0	185
SUNY, Upstate Medical U.	208	24,974	1,914	0	22,895	0	83	34	48
New Mexico Institute of Mining and Technology	209	24,900	7,389	7,422	580	698	6,970	0	1,841
Illinois Institute of Technology	210	24,762	669	4,859	11,865	479	5,506	532	852
U. North Carolina, Greensboro	211	24,423	620	27	10,068	13	2,717	674	10,304
U. Wisconsin-Milwaukee	212	24,397	826	2,503	9,238	87	9,028	342	2,373
U. South Alabama	213	23,758	973	1,326	12,786	182	4,207	306	3,978
U. Massachusetts, Boston	214	23,673	869	16	10,062	543	4,775	0	7,408
U. Denver	215	23,415	395	62	16,284	167	2,704	0	3,803
SUNY, Binghamton U.	216	23,225	5,241	1,289	8,792	1	6,535	0	1,367
CUNY, Hunter C.	217	23,166	921	784	19,542	128	1,386	0	405
Catholic U. of America	218	23,128	225	5,338	2,378	13,378	1,149	0	660
East Carolina U.	219	22,813	1,285	216	12,999	108	3,758	154	4,293
Van Andel Research Institute	220	22,231	636	230	21,365	0	0	0	0
U. Memphis	221	21,578	897	188	10,023	205	4,496	74	5,695
U. Missouri, Kansas City	222	21,203	7,061	19	11,302	237	1,696	0	888
U. Nebraska, central administration	223	20,675	17,024	0	637	0	823	0	2,191
Tennessee State U.	224	20,378	936	934	3,904	418	3,267	10,744	175
Wright State U.	225	19,617	11,336	151	6,185	200	663	284	798
Ohio U.	226	19,164	1,600	2,936	6,824	312	2,838	444	4,210
U. North Texas, Denton	227	18,702	5,459	2,567	2,165	764	5,805	301	1,641
U. California, Merced	228	18,621	1,636	2,170	4,839	453	6,067	1,557	1,899
South Dakota State U.	229	18,607	1,039	628	3,845	626	2,142	7,540	2,787
Ponce Health Sciences U.	230	18,284	0	0	18,284	0	0	0	0
Southern Methodist U.	231	17,886	4,366	2,355	3,648	556	5,167	63	1,731
Rowan U.	232	17,400	4,843	31	8,228	198	3,215	45	840
Desert Research Institute	233	16,641	4,626	5,701	425	956	1,557	876	2,500
Delaware State U.	234	16,460	144	3	4,739	1,272	3,244	2,791	4,267
Morgan State U.	235	16,319	1,533	18	5,750	3,395	3,149	67	2,407
Rutgers, State U. New Jersey, Newark	236	16,281	2,290	393	8,362	0	5,041	56	139
San Francisco State U.	237	15,993	1,013	310	9,172	94	4,297	28	1,079

TABLE 26

**Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by federal agency: FY 2021**

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other <sup>a</sup>
Tuskegee U.	238	15,424	564	1,645	1,900	39	5,608	5,460	208
Kent State U.	239	15,179	1,011	1,679	6,795	169	4,203	2	1,320
U. Puerto Rico, Rio Piedras	240	15,108	292	34	4,442	2,155	7,136	534	515
U. Alaska, Anchorage	241	15,079	1,910	52	3,111	159	2,959	31	6,857
Embry-Riddle Aeronautical U.	242	14,859	1,602	41	168	1,117	2,626	133	9,172
Eastern Virginia Medical School	243	14,774	406	0	6,998	677	0	0	6,693
U. Guam	244	14,316	2,241	0	2,502	352	3,650	3,536	2,035
U. Maryland Center for Environmental Science	245	14,072	182	493	70	1,014	3,142	365	8,806
Jackson State U.	246	14,038	1,251	219	3,130	51	6,726	0	2,661
California State U., Northridge	247	13,989	528	298	7,537	1,056	3,948	108	514
Western Michigan U. and Homer Stryker M.D. School of Medicine	248	13,944	796	2,722	2,522	373	3,750	0	3,781
Marquette U.	249	13,918	261	811	8,237	94	4,056	148	311
Meharry Medical C.	250	13,784	219	0	13,310	0	7	0	248
U.S. Military Academy	251	13,708	12,655	0	0	0	56	0	997
U. Nebraska, Omaha	252	13,503	869	0	5,706	271	2,517	0	4,140
U. West Florida	253	13,313	2,443	397	912	0	618	7	8,936
Albany Medical C.	254	13,166	160	0	13,006	0	0	0	0
U. of the Virgin Islands	255	13,099	0	0	982	776	5,892	4,251	1,198
U. Puerto Rico, Mayaguez	256	13,073	1,313	226	1,016	148	5,980	1,044	3,346
Florida Institute of Technology	257	13,049	3,776	537	828	1,649	2,107	211	3,941
U. Texas Rio Grande Valley	258	13,018	1,762	53	6,094	33	2,650	1,602	824
Marshall U.	259	12,854	1,237	102	9,011	169	833	0	1,502
U. Hawaii, system office	260	12,688	11,304	0	0	56	0	0	1,328
Southern Illinois U., Carbondale	261	12,655	739	192	5,445	68	2,039	1,073	3,099
CUNY, Queens C.	262	12,386	99	6,809	3,051	0	2,421	6	0
Louisiana State U., Health Sciences Center, Shreveport	263	12,359	105	0	12,110	144	0	0	0
CUNY, Graduate School of Public Health and Health Policy	264	12,254	0	0	11,078	0	147	0	1,029
Texas Tech U., Health Sciences Center	265	12,148	1,052	0	10,565	0	429	102	0
American U.	266	12,076	647	16	1,537	2,927	2,220	165	4,564
U. Texas Health Science Center, Tyler	267	12,007	107	157	11,743	0	0	0	0
U. Colorado Denver <sup>d</sup>	268	11,866	535	109	4,799	287	4,029	87	2,020
CUNY, Advanced Science Research Center	269	11,840	4,569	17	3,800	347	2,931	6	170
U. Baltimore	270	11,692	0	0	310	16	144	0	11,222
U. South Dakota	271	11,664	250	199	7,429	1	3,574	0	211

TABLE 26

## Federally financed higher education R&amp;D expenditures, ranked by all federal R&amp;D expenditures, by federal agency: FY 2021

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other <sup>a</sup>
South Dakota School of Mines and Technology	272	11,587	2,202	1,764	345	959	5,514	204	599
Hampton U.	273	11,517	1,062	1,075	2,030	4,115	3,235	0	0
Xavier U. Louisiana	274	11,213	503	21	9,353	490	841	0	5
California State U., Long Beach	275	11,178	1,686	158	6,608	35	1,561	214	916
California Polytechnic State U., San Luis Obispo	276	11,163	1,865	525	1,778	145	3,293	1,224	2,333
Baylor U.	277	11,025	1,429	890	3,565	68	2,560	2,087	426
Texas A&M U.-Corpus Christi	278	10,967	229	61	1,064	263	1,861	15	7,474
New York Medical C.	279	10,739	54	0	10,230	322	0	0	133
North Carolina Central U.	280	10,676	63	485	6,676	41	2,691	48	672
Nova Southeastern U.	281	10,386	4,057	0	3,585	0	12	0	2,732
U.S. Naval Academy	282	10,247	9,593	175	0	59	420	0	0
Loma Linda U.	283	10,116	62	24	8,751	1,263	0	0	16
Northeast Ohio Medical U.	284	9,999	218	0	9,712	0	69	0	0
Charles R. Drew U. of Medicine and Science	285	9,945	1,281	0	8,664	0	0	0	0
Illinois State U.	286	9,787	0	660	2,158	0	2,109	851	4,009
Prairie View A&M U.	287	9,566	898	595	30	835	1,935	5,141	132
Miami U.	288	9,412	1,322	360	2,414	1,035	2,687	0	1,594
Rosalind Franklin U. of Medicine and Science	289	9,357	718	0	8,443	0	0	0	196
California State U., East Bay	290	9,275	0	565	92	13	3,564	51	4,990
Texas A&M U.-Kingsville	291	9,265	677	19	1,176	62	1,633	3,631	2,067
Northern Illinois U.	292	9,080	547	2,447	1,275	189	2,741	34	1,847
U. Akron	293	9,024	1,265	399	1,525	793	4,107	16	919
Missouri State U.	294	8,931	7,034	148	229	61	405	628	426
California State U., San Marcos	295	8,831	1,387	0	1,751	313	2,311	99	2,970
Creighton U.	296	8,585	837	207	6,626	109	563	30	213
Chapman U.	297	8,574	974	0	5,195	241	1,176	642	346
Teachers C., Columbia U.	298	8,521	0	0	668	0	3,352	0	4,501
East Tennessee State U.	299	8,358	157	0	7,220	38	471	52	420
U. Maryland, Eastern Shore	300	8,346	0	21	577	16	1,380	3,516	2,836
U. Massachusetts, Dartmouth	301	8,223	2,344	102	800	81	2,100	62	2,734
Tennessee Technological U.	302	7,625	658	1,709	129	199	2,722	571	1,637
St. Edward's U.	303	7,600	0	0	450	371	4,309	500	1,970
Alcorn State U.	304	7,593	58	39	233	0	105	7,158	0
Oakland U.	305	7,426	681	107	4,017	53	2,522	36	10

TABLE 26

## Federally financed higher education R&amp;D expenditures, ranked by all federal R&amp;D expenditures, by federal agency: FY 2021

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other <sup>a</sup>
California State U., Los Angeles	306	7,342	564	33	3,288	637	1,968	24	828
U. North Florida	307	7,267	245	84	2,307	60	947	13	3,611
Bowling Green State U.	308	7,263	60	739	1,661	62	2,676	121	1,944
Clarkson U.	309	7,246	1,449	293	310	38	2,948	64	2,144
Idaho State U.	310	7,216	27	2,810	845	88	3,047	52	347
SUNY, C. of Environmental Science and Forestry	311	6,979	118	41	219	19	910	1,630	4,042
U. Arkansas, Little Rock	312	6,939	3,589	312	782	664	980	123	489
Central Michigan U.	313	6,919	0	1,793	1,579	0	1,252	0	2,295
U. North Carolina, Wilmington	314	6,852	735	74	503	197	2,194	0	3,149
U. of the District of Columbia	315	6,851	125	636	74	1,031	3,030	1,833	122
Louisiana Tech U.	316	6,428	2,323	6	203	92	2,968	395	441
Montana Technological U.	317	6,133	4,012	187	428	135	416	86	869
Alabama A&M U.	318	5,967	911	365	3,182	85	711	227	486
U. Tulsa	319	5,876	788	1,029	83	113	2,898	46	919
California State U., San Bernardino	320	5,867	0	0	664	111	2,809	106	2,177
Villanova U.	321	5,826	862	0	572	668	3,411	0	313
U. Missouri, Saint Louis	322	5,812	71	0	3,616	71	1,193	104	757
Sam Houston State U.	323	5,632	71	0	304	0	900	725	3,632
Lincoln U., Jefferson City	324	5,621	0	0	0	0	291	5,330	0
Western U. of Health Sciences	325	5,620	1,009	0	4,116	0	0	495	0
California State U., Sacramento	326	5,582	0	0	123	0	1,437	107	3,915
Texas Southern U.	327	5,562	0	0	2,512	0	1,415	0	1,635
Naval War C.	328	5,542	5,542	0	0	0	0	0	0
U. Hawaii, Hilo	329	5,510	253	72	894	25	1,731	424	2,111
Clark Atlanta U.	330	5,355	386	14	2,746	20	2,129	60	0
U. Minnesota, Duluth	331	5,325	133	133	279	9	2,594	296	1,881
Duquesne U.	332	5,020	1,016	0	2,398	0	511	0	1,095
Rhode Island C.	333	4,894	24	129	2,414	0	122	0	2,205
Virginia State U.	334	4,846	167	79	106	19	1,261	3,092	122
Winston-Salem State U.	335	4,841	0	0	1,299	0	1,645	0	1,897
U.S. Army War C.	336	4,662	1,187	0	405	0	128	1,488	1,454
Tarleton State U.	337	4,620	0	0	0	0	113	4,186	321
California State U., Fullerton	338	4,551	224	66	1,850	9	1,985	232	185
Morehouse C.	339	4,533	104	341	1,180	0	2,426	0	482

TABLE 26

**Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by federal agency: FY 2021**

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other <sup>a</sup>
DePaul U.	340	4,518	0	38	2,333	95	1,980	0	72
U. Tennessee, Chattanooga	341	4,507	740	477	111	0	2,686	18	475
CUNY, Brooklyn C.	342	4,505	0	0	3,367	0	1,082	14	42
Florida Gulf Coast U.	343	4,467	0	0	1,237	252	924	0	2,054
Texas Christian U.	344	4,448	63	146	3,590	33	412	0	204
Fort Valley State U.	345	4,429	0	22	0	0	431	3,976	0
California State Polytechnic U., Pomona	346	4,396	171	58	504	94	2,278	391	900
Western Washington U.	347	4,290	0	321	320	464	2,598	40	547
Arkansas State U., Jonesboro	348	4,249	3	75	690	11	1,395	1,001	1,074
Central State U.	349	4,165	0	0	0	16	504	3,549	96
Middle Tennessee State U.	350	4,150	173	26	311	55	1,833	757	995
Montclair State U.	351	4,146	0	0	1,191	156	2,511	46	242
C. Charleston	352	4,126	9	7	403	1,741	1,249	101	616
West Virginia State U.	353	4,119	0	14	14	0	263	3,295	533
California State U., Fresno	354	4,101	0	12	961	190	2,075	450	413
Fordham U.	355	4,076	194	53	2,594	0	748	12	475
U. of Health Sciences and Pharmacy in St. Louis	356	4,063	699	0	3,364	0	0	0	0
Wesleyan U.	357	4,032	501	0	1,001	545	1,455	0	530
Norfolk State U.	358	3,976	1,371	897	95	0	1,613	0	0
U. Arkansas, Pine Bluff	359	3,960	553	0	167	114	160	2,861	105
U. Colorado Colorado Springs	360	3,942	1,099	144	838	15	1,837	9	0
Fisk U.	361	3,940	463	59	338	57	2,770	0	253
South Carolina State U.	362	3,933	0	778	1,217	72	1,630	128	108
U. Detroit Mercy	363	3,917	35	0	3,814	0	68	0	0
U. New England	364	3,864	0	242	3,163	0	351	48	60
Southern Illinois U., Edwardsville	365	3,844	122	0	1,536	0	1,238	77	871
California State U., Bakersfield	366	3,827	0	0	317	0	918	115	2,477
California State U., Monterey Bay	367	3,813	146	0	240	1,558	1,091	176	602
National Defense U.	368	3,786	3,786	0	0	0	0	0	0
Southern U. and A&M C., Baton Rouge	369	3,770	303	100	175	336	2,743	26	87
Colorado C.	370	3,725	0	0	0	4	361	0	3,360
Kentucky State U.	371	3,716	0	0	0	0	210	3,506	0
U. New Orleans	372	3,674	1,006	104	128	26	972	0	1,438
Southern U. and A&M C., Agricultural Research and Extension Center	373	3,588	0	0	140	0	0	3,448	0

TABLE 26

## Federally financed higher education R&amp;D expenditures, ranked by all federal R&amp;D expenditures, by federal agency: FY 2021

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other <sup>a</sup>
Barnard C.	374	3,527	1	0	1,490	74	1,827	135	0
CUNY, John Jay C. of Criminal Justice	375	3,519	15	12	1,153	0	385	0	1,954
Wellesley C.	376	3,469	0	0	1,332	345	1,792	0	0
U. Washington, Tacoma	377	3,459	77	44	385	140	655	29	2,129
CUNY, Lehman C.	378	3,382	61	117	1,500	130	1,574	0	0
Georgia Southern U.	379	3,373	159	72	909	25	1,105	22	1,081
Salisbury U.	380	3,271	0	0	843	0	524	1	1,903
Western Illinois U.	381	3,163	780	47	168	0	35	1,831	302
Kennesaw State U.	382	3,104	242	317	932	8	1,163	18	424
Toyota Technological Institute, Chicago	383	3,090	1,115	0	328	0	1,647	0	0
Langston U.	384	3,089	0	0	434	459	42	2,125	29
U. Washington, Bothell	385	2,956	505	0	180	0	1,938	0	333
Rutgers, State U. New Jersey, Camden	386	2,905	197	72	801	0	961	0	874
Clark U.	387	2,754	37	134	325	65	1,572	158	463
Murray State U.	388	2,721	0	0	283	15	1,220	42	1,161
Long Island U.	389	2,686	39	0	1,841	0	297	372	137
Middlebury C.	390	2,639	36	0	939	115	1,340	57	152
Northwest Indian C.	391	2,621	0	1	1,096	461	813	235	15
Dakota State U.	392	2,603	1,691	0	0	0	912	0	0
U. San Diego	393	2,554	814	0	100	0	1,393	0	247
Pace U.	394	2,536	168	626	245	0	1,497	0	0
MGH Institute of Health Professions	395	2,500	0	0	2,500	0	0	0	0
CUNY, Graduate Center	396	2,496	0	0	354	0	2,020	0	122
U. Central del Caribe	397	2,492	0	0	2,492	0	0	0	0
Ball State U.	398	2,469	25	0	1,387	22	388	0	647
Haverford C.	399	2,455	1,520	0	98	331	506	0	0
Smith C.	400	2,433	99	0	658	0	1,415	0	261
James Madison U.	401	2,379	15	74	705	48	1,400	40	97
U. Michigan, Dearborn	402	2,366	68	516	394	6	1,186	0	196
Johnson C. Smith U.	403	2,365	0	0	406	16	688	0	1,255
Occidental C.	404	2,348	0	0	124	48	1,708	88	380
Western Kentucky U.	404	2,348	4	15	925	151	614	460	179
Alabama State U.	406	2,338	73	0	942	1	1,322	0	0
U. North Carolina, Asheville	407	2,322	0	0	1,129	13	502	144	534

TABLE 26

**Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by federal agency: FY 2021**

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other <sup>a</sup>
Oklahoma State U., Center for Health Sciences	408	2,304	57	0	1,917	0	32	0	298
Pennsylvania State U., Behrend	409	2,286	92	116	52	0	1,005	17	1,004
Purdue U., Northwest	410	2,280	936	197	142	41	784	69	111
California State U., Chico	411	2,258	308	2	111	0	1,246	156	435
Eastern Michigan U.	412	2,237	18	0	1,384	87	656	0	92
CUNY, C. Staten Island	413	2,234	0	0	982	25	1,168	0	59
Sonoma State U.	414	2,212	53	0	12	926	1,194	0	27
Youngstown State U.	415	2,198	1,213	0	102	18	317	0	548
West Texas A&M U.	416	2,195	0	631	0	0	1,048	236	280
Loyola Marymount U.	417	2,170	9	0	775	0	265	26	1,095
Northern Kentucky U.	418	2,156	0	0	1,143	33	195	2	783
Gallaudet U.	419	2,140	0	0	1,630	9	392	0	109
Seton Hall U.	420	2,137	396	0	607	0	0	0	1,134
SUNY, C. of Optometry	421	2,105	0	0	2,105	0	0	0	0
Tougaloo C.	422	2,092	0	0	1,422	30	640	0	0
Bates C.	423	2,079	0	0	700	0	1,303	0	76
Pacific U.	424	2,072	0	0	1,213	10	697	0	152
U. New Haven	425	2,069	642	69	72	34	706	0	546
U. Southern Maine	426	2,020	0	0	1,883	32	41	0	64
California State U., Dominguez Hills	427	2,001	0	0	821	0	874	0	306
U. Northern Iowa	428	1,995	733	104	473	52	559	63	11
Hope C.	429	1,992	0	45	70	357	1,459	0	61
Fayetteville State U.	430	1,988	447	0	0	30	1,138	0	373
New York Institute of Technology	430	1,988	251	0	1,027	0	609	98	3
Humboldt State U.	432	1,975	0	0	0	0	378	684	913
St. John's U., New York	433	1,950	39	0	1,458	0	453	0	0
U. Northern Colorado	434	1,942	34	0	170	35	768	51	884
Santa Clara U.	435	1,930	234	0	625	216	791	0	64
Reed C.	436	1,916	0	0	415	1	1,215	40	245
Northeastern Illinois U.	437	1,913	0	0	1,084	0	802	27	0
Albany C. of Pharmacy and Health Sciences	438	1,900	0	0	1,900	0	0	0	0
Saginaw Valley State U.	439	1,899	110	0	1,137	1	0	0	651
William Paterson U.	440	1,893	0	0	361	0	333	0	1,199
Spelman C.	441	1,886	0	0	455	0	1,431	0	0

TABLE 26

**Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by federal agency: FY 2021**

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other <sup>a</sup>
U. South Carolina, Aiken	442	1,884	0	1,261	187	3	113	0	320
Lamar U.	443	1,873	0	55	543	0	338	0	937
U. Wisconsin-Superior	444	1,843	0	0	0	7	11	0	1,825
Bowdoin C.	445	1,836	0	0	639	292	822	0	83
Texas Tech U., Health Sciences Center, El Paso	446	1,831	90	0	1,430	0	98	0	213
Savannah State U.	447	1,804	671	9	419	68	276	0	361
Central Washington U.	448	1,778	177	0	0	189	1,041	6	365
U. Wisconsin-Stevens Point	449	1,776	1	35	0	0	33	639	1,068
U. Texas of the Permian Basin	450	1,762	0	270	962	0	18	0	512
Towson U.	451	1,758	466	0	158	0	836	63	235
Fort Lewis C.	452	1,746	0	74	368	22	1,203	52	27
Hawaii Pacific U.	453	1,741	0	0	750	0	123	654	214
Skidmore C.	454	1,739	0	0	188	61	1,044	0	446
Palmer C. of Chiropractic, Davenport	455	1,733	0	0	1,733	0	0	0	0
Morehead State U.	456	1,727	0	0	885	723	106	13	0
Citadel Military C. South Carolina	457	1,714	777	0	51	13	780	0	93
Western Carolina U.	458	1,697	0	0	759	0	307	174	457
Bucknell U.	459	1,696	43	18	131	359	1,026	4	115
Appalachian State U.	460	1,694	24	4	73	4	993	67	529
CUNY, Baruch C.	461	1,691	109	253	273	78	925	0	53
U. Central Arkansas	462	1,640	14	0	961	52	281	119	213
New England C. of Optometry	463	1,623	0	0	1,623	0	0	0	0
Pennsylvania State U., Harrisburg	464	1,616	166	0	1,298	0	21	0	131
Elizabeth City State U.	465	1,603	0	49	114	0	1,152	0	288
Mount Holyoke C.	466	1,539	0	0	442	0	836	0	261
U. Richmond	467	1,534	0	78	443	217	631	153	12
U. Central Oklahoma	468	1,516	60	0	647	0	416	63	330
Texas Woman's U.	469	1,514	2	0	434	0	511	61	506
Yeshiva U.	470	1,509	78	0	1,136	0	258	0	37
Colorado State U., Pueblo	471	1,508	0	0	0	8	270	0	1,230
Midwestern U.	472	1,506	0	0	1,273	0	129	22	82
Indiana U. Pennsylvania	473	1,503	34	171	88	0	209	904	97
Carleton C.	474	1,499	0	0	226	19	1,142	0	112
Christopher Newport U.	475	1,497	38	195	70	559	533	0	102



TABLE 26

**Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by federal agency: FY 2021**

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other <sup>a</sup>
Winthrop U.	476	1,495	6	0	355	0	395	0	739
Troy U.	477	1,488	0	0	0	0	37	139	1,312
U. Louisiana, Monroe	478	1,465	0	0	994	21	37	216	197
Harvey Mudd C.	479	1,443	43	0	0	51	1,349	0	0
Colgate U.	480	1,440	117	0	67	193	1,063	0	0
Bryn Mawr C.	481	1,429	551	30	67	0	619	0	162
Grand Valley State U.	482	1,415	0	0	600	64	378	31	342
Swarthmore C.	483	1,414	0	0	592	162	595	3	62
Bowie State U.	484	1,398	202	49	2	74	601	24	446
Touro U.	485	1,377	0	0	1,356	0	21	0	0
Amherst C.	486	1,375	0	0	341	35	999	0	0
Franklin and Marshall C.	487	1,363	0	0	567	6	574	0	216
California State U., Stanislaus	488	1,354	0	0	60	0	1,009	0	285
Trinity C., Hartford	489	1,348	0	0	920	7	421	0	0
U. Nebraska, Kearney	490	1,327	0	0	842	1	245	0	239
New School	491	1,324	93	57	60	1	720	0	393
U. of St. Thomas (MN)	492	1,321	82	0	19	10	1,202	0	8
U. of the Sciences Philadelphia	493	1,320	0	0	1,069	0	121	0	130
U. Virginia's C. Wise	494	1,307	0	0	0	0	1,297	6	4
Texas A&M U.-Commerce	495	1,283	0	118	0	25	747	168	225
SUNY, Geneseo	496	1,273	0	457	173	41	516	0	86
U. Oklahoma, Tulsa	497	1,267	0	0	886	32	290	0	59
Hofstra U.	498	1,266	45	0	85	2	1,086	0	48
Dillard U.	499	1,257	205	0	219	93	254	0	486
Texas A&M International U.	500	1,243	0	0	37	0	206	35	965
Roger Williams U.	501	1,202	17	0	273	0	469	103	340
U. Puerto Rico, Cayey	501	1,202	0	0	1,101	62	11	0	28
Keck Graduate Institute	503	1,201	83	3	1,038	8	40	3	26
CUNY, New York City C. of Technology	504	1,197	124	0	198	61	814	0	0
U. Houston-Downtown	505	1,169	14	0	78	0	248	0	829
Saint Joseph's U.	506	1,158	20	0	134	0	601	0	403
Claremont Graduate U.	507	1,152	94	0	155	0	148	0	755
Williams C.	507	1,152	61	0	171	5	915	0	0
Davidson C.	509	1,151	0	29	632	0	472	0	18

TABLE 26

## Federally financed higher education R&amp;D expenditures, ranked by all federal R&amp;D expenditures, by federal agency: FY 2021

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other <sup>a</sup>
U. Puerto Rico, Humacao	510	1,137	0	0	157	245	600	0	135
Black Hills State U.	511	1,124	0	0	414	9	654	0	47
U. of the Pacific	512	1,106	0	0	759	92	241	14	0
Seattle U.	513	1,102	0	0	65	0	1,023	14	0
New Mexico Highlands U.	514	1,085	0	0	109	0	976	0	0
U. Wisconsin-Oshkosh	515	1,083	0	0	835	0	248	0	0
C. New Jersey	516	1,079	0	23	98	144	722	15	77
Trinity U.	517	1,078	0	0	415	290	373	0	0
U. of the Incarnate Word	518	1,076	715	0	76	0	285	0	0
U. Illinois, Springfield	519	1,071	0	0	147	15	15	1	893
U. Alaska, Southeast	520	1,046	6	77	0	47	467	119	330
Doane U.	521	1,034	0	0	279	0	754	0	1
Stephen F. Austin State U.	522	1,029	0	0	77	0	226	583	143
Furman U.	523	1,028	0	0	331	27	662	8	0
Drake U.	524	1,016	0	70	620	76	245	5	0
Augustana U.	525	1,013	0	0	560	91	362	0	0
Claflin U.	526	1,005	342	141	234	0	288	0	0
California State U., Channel Islands	527	993	2	0	161	0	828	0	2
SUNY, Buffalo State	528	977	0	0	2	0	320	0	655
Union C., Schenectady	529	976	0	0	4	20	952	0	0
U. Hawaii, Maui C.	530	951	0	0	47	0	736	138	30
Coastal Carolina U.	531	948	131	107	68	4	216	0	422
Calvin U.	532	942	173	1	120	10	381	0	257
Alfred U.	533	939	152	178	0	5	603	0	1
Pomona C.	534	930	110	0	200	62	558	0	0
U. Texas, Tyler	535	929	379	0	211	0	231	69	39
U. Ana G. Mendez, Gurabo	536	926	0	365	58	0	201	0	302
CUNY, York C.	537	922	15	154	310	124	319	0	0
Vassar C.	538	918	15	0	269	31	603	0	0
U. Wisconsin-Eau Claire	539	909	0	65	233	19	592	0	0
Willamette U.	540	896	0	0	106	0	770	0	20
U. Wisconsin-La Crosse	541	895	26	0	56	25	410	0	378
Keene State C.	542	894	0	0	654	21	218	0	1
U. Wisconsin-Green Bay	543	876	127	53	475	26	110	9	76

TABLE 26

**Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by federal agency: FY 2021**

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other <sup>a</sup>
U. Houston-Clear Lake	544	865	0	0	111	139	130	0	485
Pepperdine U.	545	835	78	0	221	0	416	0	120
Abilene Christian U.	546	827	0	638	0	45	74	0	70
SUNY, C. Plattsburgh	547	824	0	0	279	22	92	0	431
American Samoa Community C.	548	815	0	0	0	0	0	815	0
La Sierra U.	549	812	0	0	0	0	0	0	812
Southeastern Louisiana U.	550	795	0	0	274	11	130	0	380
Fielding Graduate U.	551	791	0	0	0	0	640	0	151
Eastern Washington U.	552	775	0	217	125	0	131	0	302
Erikson Institute	553	772	0	0	190	0	42	0	540
CUNY, system office	554	768	0	0	0	0	768	0	0
U. Hartford	555	766	36	0	49	544	129	0	8
Pittsburg State U.	556	759	0	0	127	47	56	62	467
Hobart and William Smith Colleges	557	758	0	0	0	0	165	87	506
Milwaukee School of Engineering	558	751	0	31	311	0	385	0	24
Colby C.	559	750	0	0	150	15	585	0	0
Mercyhurst U.	560	745	i 71	i 20	i 562	i 18	i 52	i 2	i 20
Northwestern State U. Louisiana	561	738	0	0	0	0	0	0	738
Grambling State U.	562	731	50	0	0	0	386	0	295
Biola U.	563	714	i 113	i 28	i 463	i 12	i 72	i 3	i 23
Southern Connecticut State U.	564	713	0	0	186	133	220	47	127
Lewis and Clark C.	565	702	0	126	43	0	533	0	0
Northland C.	566	697	i 26	i 0	i 286	i 13	i 288	i 5	i 79
Ithaca C.	567	685	0	0	286	132	266	0	1
Mills C.	568	683	0	0	0	0	275	0	408
Sacred Heart U.	569	675	0	0	0	0	201	0	474
Central Connecticut State U.	570	663	0	0	80	105	76	25	377
U. California, Office of the President	571	653	0	12	0	0	5	138	498
Claremont McKenna C.	572	637	59	0	191	21	349	0	17
Franklin W. Olin C. of Engineering	573	636	8	0	23	47	479	0	79
Suffolk U.	574	634	0	0	438	66	130	0	0
Macalester C.	575	617	0	0	149	6	445	17	0
West Chester U. Pennsylvania	576	608	199	0	106	24	274	0	5
Austin Peay State U.	577	597	263	0	0	50	86	0	198

TABLE 26

## Federally financed higher education R&amp;D expenditures, ranked by all federal R&amp;D expenditures, by federal agency: FY 2021

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other <sup>a</sup>
Canisius C.	577	597	4	0	160	0	173	9	251
Dordt U.	579	594	0	0	205	0	389	0	0
Indiana State U.	580	582	0	56	8	13	130	0	375
St. Cloud State U.	581	577	182	0	6	0	304	0	85
Minnesota State U., Mankato	582	575	0	0	90	9	331	0	145
Providence C.	583	574	0	0	104	0	470	0	0
Albany State U.	584	552	18	57	4	14	254	81	124
California State U., Maritime Academy	585	548	0	0	0	0	548	0	0
Edward Via C. of Osteopathic Medicine	586	537	26	0	500	0	11	0	0
Eastern Kentucky U.	587	530	0	0	113	0	293	6	118
National U. of Natural Medicine	588	523	0	0	523	0	0	0	0
Lafayette C.	589	508	99	0	105	16	286	2	0
Oberlin C.	590	505	0	0	132	0	373	0	0
Sul Ross State U.	590	505	i 0	i 0	i 0	i 0	i 0	i 94	i 411
SUNY, C. Brockport	592	500	0	0	4	24	89	7	376
U. North Georgia	593	497	9	0	0	336	133	17	2
Stockton U.	594	486	0	0	25	0	1	152	308
Des Moines U.	595	485	i 0	i 0	i 312	i 0	i 1	i 0	i 172
U. of Mary Washington	595	485	19	0	0	0	223	0	243
Fort Hays State U.	597	482	0	0	227	0	90	7	158
Florida Polytechnic U.	598	459	0	173	65	1	220	0	0
Connecticut C.	599	439	69	0	291	0	79	0	0
West Virginia School of Osteopathic Medicine	600	423	0	0	423	0	0	0	0
SUNY, Oswego	601	415	0	0	57	0	117	0	241
U. North Carolina, general administration	602	408	408	0	0	0	0	0	0
Purdue U., Fort Wayne	603	401	123	0	0	5	207	19	47
Manhattan C.	604	397	0	0	221	0	176	0	0
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	605	376	0	319	0	0	57	0	0
Arcadia U.	606	371	0	0	94	0	86	0	191
Northern Michigan U.	607	366	0	0	49	0	211	0	106
Kean U.	608	362	0	0	18	0	224	0	120
Kettering U.	609	353	0	0	0	0	17	0	336
U. Wisconsin-Platteville	609	353	i 107	i 16	i 67	i 6	i 68	i 54	i 35

TABLE 26

## Federally financed higher education R&amp;D expenditures, ranked by all federal R&amp;D expenditures, by federal agency: FY 2021

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other <sup>a</sup>
Grinnell C.	611	344	0	0	0	0	344	0	0
Marshall B. Ketchum U.	612	343	i 39	i 0	i 286	i 0	i 7	i 1	i 10
U. Massachusetts, central office	613	342	0	0	127	0	70	0	145
Indiana U., South Bend	614	337	0	0	0	0	336	0	1
Marymount U.	614	337	0	0	163	0	174	0	0
Philadelphia C. of Osteopathic Medicine	616	318	0	0	318	0	0	0	0
Heidelberg U.	617	308	0	0	0	0	0	175	133
C. Wooster	618	300	i 66	i 0	i 78	i 0	i 146	i 5	i 5
Pratt Institute	619	294	0	0	0	19	194	34	47
Albion C.	620	289	i 0	i 0	i 0	i 117	i 74	i 0	i 98
Hamilton C.	621	286	0	0	0	60	199	0	27
Lawrence Technological U.	622	284	66	0	0	0	93	0	125
St. Olaf C.	623	271	0	0	5	0	236	0	30
Andrews U.	624	256	0	0	0	174	82	0	0
U. San Francisco	625	255	0	0	0	84	131	0	40
Oregon Institute of Technology	626	252	80	i 14	i 67	i 13	i 37	i 8	i 33
Rhode Island School of Design	627	250	i 0	i 2	i 30	i 2	i 49	i 4	i 163
Jacksonville State U.	628	245	0	0	0	0	37	0	208
Lipscomb U.	629	222	0	0	0	3	161	0	58
Azusa Pacific U.	630	212	32	0	156	9	15	0	0
U. Wisconsin-River Falls	630	212	0	0	0	0	146	50	16
Alaska Pacific U.	632	189	0	0	0	64	86	29	10
Framingham State U.	633	188	i 108	i 0	i 0	i 0	i 11	i 69	i 0
Monmouth U.	634	174	16	0	0	0	27	0	131
U. Minnesota, Morris	635	162	0	0	0	0	140	0	22
Wheaton C., Wheaton	636	148	0	20	53	0	75	0	0
Fairfield U.	637	147	0	0	0	17	113	17	0
Elon U.	638	138	0	0	63	0	75	0	0
Liberty U.	639	120	0	75	45	0	0	0	0
U. Michigan, Flint	640	113	0	0	53	0	0	0	60
Eastern Connecticut State U.	641	108	0	0	0	6	100	0	2
Roseman U. of Health Sciences	642	53	0	0	53	0	0	0	0
C. of Saint Benedict	643	46	i 3	i 0	i 19	i 0	i 20	i 0	i 4
Niagara U.	644	34	0	0	0	0	0	0	34

i = imputed.

DOD = Department of Defense; DOE = Department of Energy; HHS = Department of Health and Human Services; NASA = National Aeronautics and Space Administration; NSF = National Science Foundation; USDA = Department of Agriculture.

<sup>a</sup> Includes all other agencies reported.

<sup>b</sup> Johns Hopkins University includes the Applied Physics Laboratory, with \$1,881,568 thousand in federally financed R&D expenditures in FY 2021.

<sup>c</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

<sup>d</sup> The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

<sup>e</sup> The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

**Note(s):**

Agency-specific rankings are available in [table 60](#) through [table 66](#). Institutions reporting zero federal expenditures for FY 2021 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2021.

TABLE 27

**Higher education R&D expenditures funded by state and local governments, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
All institutions	-	4,736,015	69,099	206,815	2,734,533	27,009	113,326	44,942	168,142	88,314	946,273	337,562
U. Texas M. D. Anderson Cancer Center	1	293,325	0	0	273,473	8,170	2,911	4,154	4,617	0	0	0
SUNY, Polytechnic Institute	2	206,962	0	0	313	0	0	0	0	0	206,649	0
Texas A&M U., College Station and Health Science Center	3	198,483	393	4,867	92,106	179	3,017	385	4,715	3,331	84,075	5,415
U. Florida	4	161,448	523	3,853	129,375	171	1,759	745	3,738	8	16,444	4,832
U. Wisconsin-Madison	5	135,923	1,172	7,599	84,322	124	3,311	677	8,567	5,477	9,580	15,094
North Carolina State U.	6	127,290	477	6,721	70,527	3,338	6,364	346	2,260	994	30,463	5,800
Georgia Institute of Technology	7	107,465	393	5,572	8,966	3,688	8,106	1,636	199	0	76,792	2,113
Mississippi State U.	8	88,418	2,282	1,228	43,206	1,482	5,883	1,375	6,360	915	12,292	13,395
Cornell U.	9	87,821	25	139	67,554	83	1,699	2,628	4,618	0	3,160	7,915
Rutgers, State U. New Jersey, New Brunswick	10	84,201	0	1,197	69,046	1	163	894	1,406	0	8,131	3,363
U. California, Davis	11	75,116	192	7,833	43,093	0	197	1	551	0	22,756	493
U. California, Los Angeles	12	71,014	0	1,608	55,779	53	90	484	6,873	353	3,740	2,034
Louisiana State U., Baton Rouge	13	70,166	2,849	1,485	52,363	242	847	92	1,647	1	10,422	218
U. Minnesota, Twin Cities	14	69,842	424	2,121	53,787	522	234	424	2,273	118	8,670	1,269
U. Texas Southwestern Medical Center	15	68,114	0	0	68,114	0	0	0	0	0	0	0
Virginia Polytechnic Institute and State U.	16	60,571	5,199	117	40,936	99	79	0	1,593	0	12,338	210
U. Nebraska, Lincoln	17	55,626	1,950	52	44,646	1,419	719	601	288	137	4,708	1,106
U. Georgia	18	54,706	0	2,609	47,621	0	1	128	3,123	0	452	772
U. California, San Diego	19	51,346	245	14,115	27,567	880	611	84	181	17	6,236	1,410
U. Arkansas, Fayetteville	20	50,207	1,010	82	38,067	0	157	64	2,066	0	2,122	6,639
Washington State U.	21	48,317	149	1,305	31,634	0	3,334	20	2,510	58	6,793	2,514
Oregon State U.	22	47,981	75	1,866	40,250	516	163	0	1,640	15	3,399	57
Pennsylvania State U., University Park and Hershey Medical Center	23	46,993	0	575	37,318	61	55	280	2,830	0	4,985	889
Ohio State U.	24	45,862	4,084	0	28,916	0	0	192	586	271	8,581	3,232
North Dakota State U.	25	43,787	10	90	37,405	0	216	39	843	2,511	2,456	217
Arizona State U.	26	43,390	1,246	2,454	5,164	169	804	305	2,253	20,608	5,882	4,505

TABLE 27

**Higher education R&D expenditures funded by state and local governments, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Texas Health Science Center, Houston	27	42,636	0	0	42,636	0	0	0	0	0	0	0
U. Maryland <sup>a</sup>	28	42,597	170	205	20,071	0	20	0	290	57	13,616	8,168
Kansas State U.	29	42,139	69	102	33,445	337	44	55	1,509	1,927	1,546	3,105
Michigan State U.	30	41,609	1	0	33,059	38	38	84	2,434	389	2,948	2,618
U. California, Berkeley	31	40,383	0	2	8,956	0	5,674	0	3,181	2,679	18,760	1,131
U. Missouri, Columbia	32	39,936	121	0	15,071	0	0	163	2,115	22,151	20	295
U. Oklahoma, Norman and Health Science Center	33	38,203	49	3,892	17,047	16	1,073	24	2,819	0	1,955	11,328
Purdue U., West Lafayette	34	37,369	0	0	18,589	0	39	0	774	0	15,020	2,947
U. Houston	35	35,530	627	2,122	5,125	170	4,901	1,882	1,211	9	10,766	8,717
U. North Dakota	36	34,750	330	555	225	0	129	3	0	213	33,247	48
Baylor C. of Medicine	37	34,447	0	0	34,447	0	0	0	0	0	0	0
Iowa State U.	38	34,097	0	0	21,714	272	0	0	1,598	247	9,769	497
U. Kansas	39	33,921	0	734	2,871	0	321	53	70	0	999	28,873
U. Idaho	40	33,391	89	2,040	23,660	0	277	0	1,100	2,256	3,198	771
U. Kentucky	41	33,287	0	40	28,010	4	140	0	929	0	2,860	1,304
U. California, San Francisco	42	33,056	0	0	33,056	0	0	0	0	0	0	0
Virginia Commonwealth U.	43	31,893	163	0	22,902	24	194	379	959	0	4,218	3,054
U. Texas, Austin	44	30,336	88	1,337	7,953	2	2,937	45	372	0	16,340	1,262
U. California, Office of the President	45	29,282	0	0	29,170	0	0	0	0	0	0	112
U. Arizona	46	28,604	1,689	2,219	15,450	0	3,249	295	751	707	3,927	317
Colorado State U., Fort Collins	47	28,559	0	1,846	22,906	78	202	7	2,011	70	1,394	45
Auburn U., Auburn	48	28,351	0	162	25,745	0	6	106	502	15	1,043	772
Texas Tech U.	49	27,357	487	1,174	12,467	263	1,106	628	1,049	0	5,076	5,107
SUNY, U. Buffalo	50	27,020	986	533	17,778	58	144	133	539	0	4,490	2,359
U. Illinois, Urbana-Champaign	51	26,853	39	33	13,228	122	151	823	42	0	8,157	4,258
Clemson U.	52	25,748	41	0	16,591	0	83	11	495	0	1,059	7,468
U. Maryland Center for Environmental Science	53	25,740	0	23,411	1,900	0	214	0	139	0	72	4
U. Colorado Anschutz Medical Campus	54	25,162	0	0	24,937	0	0	0	0	0	10	215



TABLE 27

**Higher education R&D expenditures funded by state and local governments, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Texas Health Science Center, San Antonio	55	25,110	0	0	25,110	0	0	0	0	0	0	0
U. Arkansas for Medical Sciences	56	24,809	0	0	24,809	0	0	0	0	0	0	0
U. South Florida <sup>c</sup>	57	23,254	30	1,696	10,009	0	78	285	3,315	0	5,143	2,698
Utah State U.	58	22,481	282	644	14,785	69	142	273	830	0	5,140	316
New Mexico State U.	59	22,094	0	1,165	19,476	0	89	0	0	30	1,334	0
U. Washington, Seattle	60	21,877	117	3,575	7,570	0	6	0	162	0	4,844	5,603
Oklahoma State U., Stillwater	61	21,258	155	429	16,370	6	33	359	312	103	2,135	1,356
U. Hawaii, Manoa	62	20,742	0	404	18,010	0	0	0	297	464	1,231	336
U. Pennsylvania	63	20,733	0	0	19,217	0	0	0	158	1,171	129	58
Florida State U.	64	20,583	52	111	3,307	0	8,106	1,556	1,113	77	3,014	3,247
U. Texas, El Paso	65	19,841	365	401	4,752	276	1,344	770	788	3,677	4,057	3,411
Florida International U.	66	19,445	162	1,984	1,184	0	431	6,400	1,295	234	3,658	4,097
U. Texas, Arlington	67	19,262	1,773	3	1,586	1,183	1,093	18	4	0	11,915	1,687
U. Maine	68	17,875	275	4,785	4,404	0	1,376	3	484	1,714	4,291	543
Stanford U.	69	17,802	0	315	16,780	0	0	0	0	0	541	166
Montana State U., Bozeman	70	17,738	0	0	17,438	0	0	0	0	0	177	123
Old Dominion U.	71	17,685	1,109	1,060	6,379	143	965	350	765	0	6,385	529
U. Texas, San Antonio	72	17,629	244	281	4,756	0	663	0	1,231	219	3,123	7,112
Texas Tech U., Health Sciences Center	73	16,670	0	0	15,971	0	0	0	0	0	0	699
U. California, Irvine	74	15,891	133	899	10,955	0	348	18	463	0	2,937	138
U. Wisconsin-Milwaukee	75	15,783	24	2,520	1,811	490	1,703	467	1,736	1,323	3,006	2,703
South Dakota State U.	76	15,713	0	166	12,743	0	244	0	995	0	1,534	31
U. Alabama, Tuscaloosa	77	15,693	6,033	374	6	0	0	102	633	0	5,332	3,213
U. Miami	78	15,057	0	1,004	13,665	0	0	307	0	0	81	0
U. Southern California	79	14,664	0	940	10,186	0	0	175	1,851	0	890	622
New York U.	80	13,191	4	0	10,176	21	73	48	1,201	0	698	970
New Jersey Institute of Technology	81	13,030	0	0	8,797	0	19	0	0	0	1,383	2,831
U. Tennessee, Knoxville	82	12,577	0	726	2,085	92	1,059	10	1,171	1,994	5,398	42
Wake Forest U.	83	12,370	0	0	12,370	0	0	0	0	0	0	0
SUNY, C. of Environmental Science and Forestry	84	12,203	48	232	10,489	0	14	1,108	0	0	260	52

TABLE 27

**Higher education R&D expenditures funded by state and local governments, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Nebraska, Medical Center	85	11,950	0	0	11,950	0	0	0	0	0	0	0
U. Central Florida	86	11,703	149	128	1,197	0	185	6	21	236	1,843	7,938
U. Southern Mississippi	87	11,576	33	2,380	1,881	0	2,079	0	669	0	0	4,534
U. California, Riverside	88	11,424	140	603	4,213	13	0	25	273	0	5,998	159
U. Texas, Dallas	89	11,065	113	20	4,320	112	1,976	665	339	56	3,204	260
California State U., Sacramento	90	11,012	0	1	477	1	0	8	4,602	3,689	2,215	19
U. Delaware	91	10,335	13	1,499	4,986	10	220	0	1,119	161	2,327	0
SUNY, Stony Brook U.	92	10,323	103	4,361	1,026	1	409	0	57	732	3,606	28
Northern Arizona U.	93	10,179	1,312	831	5,142	0	2,047	101	4	0	615	127
West Virginia U.	94	9,993	0	1	8,080	0	65	0	208	2	1,576	61
U. North Carolina, Charlotte	95	9,921	9,026	111	237	0	0	27	0	0	449	71
CUNY, City C.	96	9,824	0	0	439	0	338	0	0	0	7,713	1,334
Wayne State U.	97	9,594	34	0	8,030	255	1	0	1,105	0	63	106
U. North Carolina, Chapel Hill	98	9,550	0	485	4,319	0	0	2,690	443	0	1,023	590
U. Pittsburgh, Pittsburgh	99	9,484	0	125	8,987	0	0	0	50	21	285	16
U. Alabama, Birmingham	100	9,355	0	0	7,172	0	1,060	45	0	0	78	1,000
U. North Texas, Health Science Center	101	9,224	0	0	9,224	0	0	0	0	0	0	0
Texas A&M U.-Corpus Christi	102	9,110	1	2,778	1,484	2	14	0	136	295	3,465	935
Temple U.	103	8,876	0	318	6,894	0	0	0	684	131	430	419
U. Virginia, Charlottesville	104	8,714	540	100	2,374	0	77	0	87	0	813	4,723
U. Massachusetts, Amherst	105	8,595	130	5	4,395	0	9	0	0	0	3,287	769
U. New Mexico	106	8,359	0	53	6,135	0	0	81	1,836	0	137	117
California Institute of Technology	107	8,142	0	1,867	0	0	6,229	0	0	0	0	46
U. Illinois, Chicago	108	8,027	1,874	0	3,958	0	0	0	802	0	73	1,320
U. Rhode Island	109	7,798	0	2,158	1,859	0	9	406	25	2,025	492	824
U. Texas Medical Branch	110	7,739	0	0	7,717	0	0	0	0	0	22	0
San Jose State U.	111	7,617	0	4,789	10	43	37	0	8	0	81	2,649
U. New Hampshire	112	7,547	0	430	6,062	0	0	0	703	0	144	208
U. Louisiana, Lafayette	113	7,472	2,638	28	972	171	133	146	189	1,127	1,441	627
Rice U.	114	7,372	227	0	2,480	242	1,511	0	112	0	2,800	0
U. Louisville	115	7,351	32	0	5,916	0	30	0	43	0	1,082	248
U. Cincinnati	116	7,234	1,712	0	3,293	0	6	0	593	0	1,465	165

TABLE 27

**Higher education R&D expenditures funded by state and local governments, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Maryland, Baltimore County	117	7,220	1,290	12	166	24	0	49	5,030	0	571	78
U. Memphis	118	7,208	165	1,058	701	31	95	948	331	0	2,203	1,676
Columbia U. in the City of New York	119	7,173	0	541	4,262	0	72	0	0	0	1,680	618
U. Massachusetts, Boston	120	7,113	662	67	580	0	0	54	867	0	0	4,883
U. California, Merced	121	7,048	49	337	2,429	0	33	62	40	4	4,006	88
U. Nevada, Reno	122	7,001	104	1,728	2,079	0	274	0	1	0	2,808	7
U. Texas Rio Grande Valley	123	6,945	0	5	4,684	38	1,114	213	20	0	87	784
U. Texas Health Science Center, Tyler	124	6,884	0	0	6,884	0	0	0	0	0	0	0
SUNY, Binghamton U.	125	6,737	0	0	157	0	286	0	6	0	6,269	19
Georgia State U.	126	6,353	60	167	679	1	0	174	1,172	0	0	4,100
U. Minnesota, Duluth	127	6,341	0	60	5,649	0	2	0	0	0	567	63
Wichita State U.	128	6,161	0	0	2	0	0	0	0	0	6,119	40
U. South Carolina, Columbia	129	6,108	0	20	542	36	1,500	125	152	0	448	3,285
Florida Atlantic U.	130	5,852	88	137	3,317	42	274	75	16	0	1,653	250
U. North Carolina, Wilmington	131	5,748	0	2,702	2,704	0	0	0	114	32	105	91
Florida A&M U.	132	5,741	0	165	597	0	0	5	0	0	47	4,927
Montana Technological U.	133	5,658	0	5,502	156	0	0	0	0	0	0	0
Rhode Island C.	134	5,593	0	0	70	0	0	0	11	0	0	5,512
U. North Texas, Denton	135	5,567	0	388	579	0	3	208	0	0	4,323	66
Icahn School of Medicine at Mount Sinai	136	5,500	0	0	5,500	0	0	0	0	0	0	0
U. Tennessee, Health Science Center	137	5,433	0	0	4,746	0	0	0	0	0	687	0
U. Massachusetts, Medical School	138	5,405	0	0	5,405	0	0	0	0	0	0	0
U. Iowa	139	5,395	0	965	1,415	0	117	0	37	0	852	2,009
West Texas A&M U.	140	5,258	140	0	5,012	0	0	0	0	100	0	6
Rochester Institute of Technology	141	5,213	229	0	92	0	45	0	1,492	0	3,241	114
U. California, Santa Barbara	141	5,213	116	3,086	1,328	0	100	0	24	0	142	417
Harvard U.	143	5,137	325	38	2,898	0	0	0	1,702	0	75	99
U. California, Santa Cruz	144	4,943	0	2,047	1,464	0	701	0	203	0	528	0
Kentucky State U.	145	4,870	0	0	4,870	0	0	0	0	0	0	0
Yale U.	146	4,859	0	0	4,663	0	0	0	4	0	140	52
U. Alabama, Huntsville	147	4,743	0	859	75	0	30	0	0	0	590	3,189

TABLE 27

**Higher education R&D expenditures funded by state and local governments, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Wyoming	148	4,681	129	122	1,173	29	0	0	192	103	2,396	537
Johns Hopkins U. <sup>d</sup>	149	4,677	157	141	3,508	1	10	0	10	0	313	537
Texas A&M U.-Kingsville	150	4,652	0	0	3,657	0	32	0	0	99	523	341
U. Utah	151	4,638	0	224	2,489	0	6	0	198	0	951	770
Drexel U.	152	4,601	22	0	3,883	0	93	11	0	69	430	93
Case Western Reserve U.	153	4,557	0	0	3,287	0	73	0	898	0	111	188
Alcorn State U.	154	4,457	0	0	1,931	0	0	0	2,526	0	0	0
Rowan U.	155	4,442	0	120	3,406	0	0	49	0	0	867	0
Tulane U.	155	4,442	0	586	3,318	2	50	40	40	0	316	90
Medical U. South Carolina	157	4,423	0	0	4,423	0	0	0	0	0	0	0
U. Connecticut	158	4,394	403	84	1,614	0	0	292	78	0	1,445	478
Tennessee Technological U.	159	4,363	489	0	149	0	0	0	0	0	3,725	0
U. Colorado Boulder	160	4,348	34	129	454	0	1,224	0	1,308	0	1,012	187
Creighton U.	161	4,347	129 i	0 i	3,219 i	33 i	220 i	47 i	270 i	0 i	0 i	429 i
Syracuse U.	162	4,328	4	0	232	0	0	10	0	0	1,915	2,167
U. Massachusetts, Lowell	163	4,201	0	0	869	0	725	19	314	0	2,242	32
U. Mississippi	164	4,165	0	0	3,378	0	0	0	0	0	0	787
San Diego State U.	165	4,107	104	144	2,092	0	0	1,067	0	0	436	264
Prairie View A&M U.	166	4,041	0	0	1,574	0	3	283	0	0	45	2,136
Humboldt State U.	167	3,971	0	105	1,414	0	1	0	123	0	2,195	133
Texas State U.	168	3,949	0	195	517	0	0	0	369	0	218	2,650
William & Mary	169	3,895	140	2,332	44	0	182	0	797	0	0	400
Indiana U., Bloomington	170	3,863	0	0	2,640	0	0	0	1,197	0	0	26
Oregon Institute of Technology	171	3,792	106 i	284 i	2,587 i	70 i	0 i	101 i	0 i	0 i	644 i	0 i
Tarleton State U.	172	3,749	0	2,466	725	0	39	0	23	0	0	496
Rensselaer Polytechnic Institute	173	3,714	0	0	18	0	677	0	0	0	2,871	148
Carnegie Mellon U.	174	3,675	202	0	12	0	0	143	0	0	3,318	0
Nova Southeastern U.	175	3,636	0	2,626	986	0	0	0	0	0	0	24
U. North Carolina, general administration	176	3,616	1,179	0	522	0	0	0	0	0	1,762	153
Salisbury U.	177	3,604	76	628	1,572	0	0	0	333	0	0	995
Portland State U.	178	3,576	0	40	969	0	0	2	1,457	0	889	219

TABLE 27

**Higher education R&D expenditures funded by state and local governments, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
George Mason U.	179	3,387	11	0	505	0	185	0	414	0	2,258	14
Tufts U.	180	3,242	0	78	2,158	0	20	20	653	0	243	70
Massachusetts Institute of Technology	181	3,213	0	0	0	0	747	0	4	0	2,446	16
Florida Gulf Coast U.	182	3,160	0	985	1,195	0	36	0	0	0	29	915
Arkansas State U., Jonesboro	183	3,103	138	0	2,730	1	74	0	33	28	68	31
U. Rochester	184	3,074	0	95	1,217	0	627	0	0	66	619	450
U. Colorado Denver	185	3,047	21	21	1,832	0	0	0	14	0	314	845
CUNY, John Jay C. of Criminal Justice	186	3,037	0	0	0	0	0	154	50	0	0	2,833
California State U., San Bernardino	187	2,928	0	0	549	193	81	903	41	0	1,079	82
U. Southern Maine	188	2,903	1,420	11	658	0	0	0	604	17	54	139
U. Nevada, Las Vegas	189	2,902	39	134	1,496	0	57	16	86	0	286	788
Vanderbilt U. and Vanderbilt U. Medical Center	190	2,897	0	0	1,265	0	0	0	0	0	38	1,594
Central State U.	191	2,866	0	0	2,866	0	0	0	0	0	0	0
Texas Tech U., Health Sciences Center, El Paso	192	2,829	0	0	2,829	0	0	0	0	0	0	0
Morgan State U.	193	2,782	0	0	322	0	0	0	10	0	2,158	292
Louisiana Tech U.	194	2,767	746	0	91	0	477	0	0	0	623	830
Tuskegee U.	195	2,676	0	0	0	0	0	0	2,676	0	0	0
Southern U. and A&M C., Agricultural Research and Extension Center	196	2,556	0	0	2,556	0	0	0	0	0	0	0
Thomas Jefferson U.	197	2,542	0	0	2,542	0	0	0	0	0	0	0
California Polytechnic State U., San Luis Obispo	198	2,537	92	11	1,404	19	42	136	17	0	810	6
Alabama A&M U.	199	2,534	59	0	1,511	20	122	37	116	0	418	251
Delaware State U.	200	2,432	0	0	1,906	0	112	0	414	0	0	0
U. Massachusetts, central office	201	2,417	0	0	0	0	0	0	1,420	830	0	167
Boise State U.	202	2,402	27	28	743	0	5	0	71	0	1,471	57
CUNY, Hunter C.	203	2,359	0	679	698	0	57	37	769	0	0	119
SUNY, Upstate Medical U.	204	2,333	0	0	2,333	0	0	0	0	0	0	0
San Francisco State U.	205	2,305	0	683	1,272	2	0	170	33	109	36	0
George Washington U.	206	2,296	0	0	2,070	0	0	0	145	0	81	0

TABLE 27

**Higher education R&D expenditures funded by state and local governments, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Virginia State U.	207	2,278	0	0	2,180	0	0	0	0	0	2	96
Lehigh U.	208	2,243	11	0	29	0	5	0	0	0	2,178	20
Northeastern U.	209	2,227	0	54	47	0	201	0	364	0	1,561	0
U. Arkansas, Pine Bluff	210	2,216	0	0	2,201	0	15	0	0	0	0	0
Scripps Research Institute	211	2,103	0	0	2,103	0	0	0	0	0	0	0
U. Michigan, Ann Arbor	212	2,066	94	0	507	0	12	0	325	0	899	229
Lamar U.	213	2,047	39	24	60	0	11	0	0	0	1,541	372
Lincoln U., Jefferson City	214	2,000	0	0	1,901	0	0	0	99	0	0	0
Idaho State U.	215	1,982	67	292	419	0	78	0	10	207	904	5
Seton Hall U.	216	1,977	0	0	0	0	0	0	0	0	0	1,977
U. Alaska, Fairbanks	217	1,956	28	1,290	223	0	0	0	25	60	324	6
U. Baltimore	218	1,907	0	0	0	0	0	0	1,420	0	0	487
Baylor U.	219	1,892	0	482	533	0	26	342	99	0	284	126
U. Nebraska, Omaha	220	1,855	349	0	570	67	13	0	487	57	253	59
Texas Woman's U.	221	1,853	0	0	1,274	0	0	207	55	0	0	317
U. Puerto Rico, Medical Sciences Campus	222	1,838	0	0	1,838	0	0	0	0	0	0	0
U. of the Virgin Islands	223	1,818	0	1,173	645	0	0	0	0	0	0	0
U. South Dakota	224	1,772	0	0	896	0	574	0	0	0	185	117
Albert Einstein C. of Medicine	225	1,764	0	0	1,764	0	0	0	0	0	0	0
SUNY, U. Albany	226	1,749	0	1,488	166	0	48	0	0	0	3	44
Florida Institute of Technology	227	1,743	214	1,231	5	0	100	0	0	0	193	0
U. Guam	228	1,705	0	0	1,705	0	0	0	0	0	0	0
Oakland U.	229	1,694	14	0	271	0	714	9	55	0	585	46
Winston-Salem State U.	230	1,690	329	0	563	0	0	0	406	0	0	392
Stevens Institute of Technology	231	1,642	0	0	0	0	0	0	0	0	1,212	430
Boston C.	232	1,632	0	0	0	0	33	0	1,529	0	0	70
U. Alaska, Anchorage	233	1,631	0	19	668	0	35	8	546	16	193	146
Miami U.	234	1,610	0	0	1,056	1	0	108	274	0	87	84
West Virginia State U.	235	1,566	0	0	1,566	0	0	0	0	0	0	0
Washington U., Saint Louis	236	1,471	0	0	1,470	0	0	0	1	0	0	0
Cleveland State U.	237	1,458	0	0	28	0	0	148	1,077	0	132	73

TABLE 27

**Higher education R&D expenditures funded by state and local governments, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Dartmouth C. and Dartmouth Hitchcock Medical Center	238	1,446	0	0	1,446	0	0	0	0	0	0	0
California State U., East Bay	239	1,443	0	1,240	121	68	0	0	0	0	14	0
Clarkson U.	240	1,426	1	85	10	209	177	33	0	0	691	220
U. Massachusetts, Dartmouth	241	1,422	0	1,386	0	0	22	0	0	0	0	14
Georgetown U.	242	1,405	0	0	365	0	0	0	377	0	0	663
Loyola Marymount U.	243	1,393	0	0	0	0	0	635	514	0	27	217
Kent State U.	244	1,379	6	18	57	0	212	107	22	0	887	70
Villanova U.	245	1,372	0	14	5	0	0	0	0	0	1,353	0
Colorado School of Mines	246	1,351	18	69	15	0	27	0	0	0	1,200	22
South Dakota School of Mines and Technology	247	1,345	0	0	0	0	21	0	0	0	1,324	0
Rush U.	248	1,338	0	0	1,338	0	0	0	0	0	0	0
Bowling Green State U.	249	1,333	0	110	409	0	0	4	810	0	0	0
Stephen F. Austin State U.	250	1,323	7	101	990	0	3	0	33	0	0	189
U. North Florida	251	1,297	19	8	13	0	0	0	12	0	431	814
California State U., Monterey Bay	252	1,277	496	304	453	0	0	0	0	0	0	24
U. Virginia's C. Wise	253	1,267	0	0	9	0	0	0	23	0	0	1,235
Austin Peay State U.	254	1,263	0	472	372	0	0	0	0	0	0	419
Worcester Polytechnic Institute	255	1,262	0	0	0	0	817	0	34	0	411	0
U. of the District of Columbia	256	1,253	0	95	1,158	0	0	0	0	0	0	0
Colorado State U., Pueblo	257	1,244	0	0	452	0	0	27	2	0	8	755
CUNY, Queens C.	258	1,241	0	24	1,014	0	0	0	0	0	0	203
Brigham Young U., Provo	259	1,217	0	140	167	0	0	30	0	0	567	313
Howard U.	260	1,176	0	0	563	142	137	0	54	0	280	0
Duquesne U.	261	1,138	0	0	279	0	0	0	0	0	71	788
California State U., San Marcos	262	1,110	0	0	809	0	3	226	0	42	0	30
Western Washington U.	263	1,107	0	491	71	0	44	0	0	142	160	199
New York Medical C.	264	1,098	0	0	1,098	0	0	0	0	0	0	0
Heidelberg U.	265	1,092	0	1,092	0	0	0	0	0	0	0	0
California State U., Fresno	266	1,086	0	0	118	46	56	0	5	0	493	368
Western Michigan U. and Homer Stryker M.D. School of Medicine	267	1,074	0	705	0	0	0	0	40	0	122	207

TABLE 27

**Higher education R&D expenditures funded by state and local governments, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Duke U.	268	1,073	0	32	918	0	0	0	46	0	0	77
Alfred U.	269	1,040	0	0	0	0	0	0	0	0	1,040	0
Marshall U.	269	1,040	0	0	404	0	49	0	0	0	120	467
Southern Methodist U.	271	1,039	18	193	0	23	0	0	14	0	57	734
Woods Hole Oceanographic Institution	272	1,029	0	305	0	0	0	0	0	0	724	0
U. Wisconsin-Stevens Point	273	1,010	0	224	786	0	0	0	0	0	0	0
Oregon Health and Science U.	274	1,007	0	0	1,007	0	0	0	0	0	0	0
Pittsburg State U.	275	1,001	0	0	34	0	0	0	0	0	967	0
North Carolina Central U.	276	976	0	31	72	0	10	0	0	0	67	796
Eastern Washington U.	277	965	0	14	17	0	0	0	934	0	0	0
U. Denver	278	951	0	0	0	0	54	52	25	0	95	725
U. Montana, Missoula	279	907	0	49	769	0	5	2	81	0	0	1
Northern Illinois U.	280	899	0	5	878	0	0	0	16	0	0	0
U. Toledo	281	884	0	0	223	0	0	0	0	0	216	445
Ohio U.	282	883	0	295	69	0	10	0	94	0	392	23
California State U., Long Beach	283	877	0	0	89	0	0	0	6	0	782	0
U. Central Arkansas	284	869	0	0	184	1	2	0	2	0	0	680
Coastal Carolina U.	285	864	0	730	49	0	18	0	0	0	0	67
U. Wisconsin-La Crosse	286	862	11	4	151	14	99	0	499	34	0	50
California State Polytechnic U., Pomona	287	846	12	0	560	0	45	0	0	0	229	0
Pratt Institute	288	835	0	0	0	0	0	0	0	0	0	835
St. Edward's U.	289	800	0	109	0	0	45	0	0	0	0	646
Texas A&M International U.	290	797	0	30	62	0	7	45	3	80	135	435
California State U., Chico	291	792	0	0	629	0	0	0	23	0	140	0
East Carolina U.	292	787	119	23	441	0	0	0	0	0	199	5
Monmouth U.	293	778	0	777	1	0	0	0	0	0	0	0
U. Oregon	294	769	0	9	53	0	436	0	6	0	0	265
Texas Southern U.	295	760	0	0	527	0	104	0	0	0	0	129
U. New Orleans	296	748	37	95	55	35	137	0	135	0	152	102
Illinois State U.	297	746	0	73	1	0	0	0	528	0	0	144
U. Nebraska, Kearney	297	746	0	0	203	0	393	77	6	0	0	67



TABLE 27

**Higher education R&D expenditures funded by state and local governments, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Vermont	299	727	23	38	49	0	0	0	15	518	84	0
Xavier U. Louisiana	300	709	0	0	610	0	99	0	0	0	0	0
U. Tennessee, Chattanooga	301	705	10	0	145	26	18	0	0	32	474	0
Van Andel Research Institute	302	703	0	0	703	0	0	0	0	0	0	0
Lawrence Technological U.	303	701	0	0	0	0	0	0	0	0	270	431
Teachers C., Columbia U.	304	700	36	0	472	0	0	15	177	0	0	0
Indiana U.-Purdue U., Indianapolis	305	687	0	62	0	0	0	0	193	0	107	325
Ponce Health Sciences U.	306	685	0	0	685	0	0	0	0	0	0	0
SUNY, Buffalo State	307	682	0	0	588	0	0	0	94	0	0	0
Saint Joseph's U.	308	673	0	0	0	0	0	118	0	0	0	555
U. Illinois, Springfield	309	670	0	0	0	0	0	0	513	0	0	157
U. Notre Dame	310	665	29	0	158	0	50	0	58	0	228	142
Hobart and William Smith Colleges	311	662	0	0	662	0	0	0	0	0	0	0
Rockefeller U.	312	656	0	0	656	0	0	0	0	0	0	0
U. Central Oklahoma	313	644	0	0	12	4	6	0	0	0	0	622
Medical C. Wisconsin	314	640	0	0	640	0	0	0	0	0	0	0
Northwestern State U. Louisiana	315	634	171	0	89	12	0	0	12	0	0	350
New Mexico Institute of Mining and Technology	316	631	0	551	44	0	0	0	0	0	36	0
U. Houston-Clear Lake	317	620	11	0	351	0	0	7	6	0	0	245
Kennesaw State U.	318	619	3	0	7	17	0	74	131	66	119	202
Chapman U.	319	612	0	0	20	0	0	0	0	0	0	592
California State U., Channel Islands	320	611	0	0	611	0	0	0	0	0	0	0
Morehouse School of Medicine	320	611	0	0	611	0	0	0	0	0	0	0
Grambling State U.	322	595	0	0	0	0	469	0	0	0	0	126
U. Wisconsin-River Falls	323	588	0	0	465	0	16	0	0	0	0	107
Mercyhurst U.	324	584	17	9	427	4	29	6	36	0	0	56
Wright State U.	324	584	80	22	40	0	12	79	0	0	256	95
Michigan Technological U.	326	576	0	272	0	0	18	0	0	155	131	0
Rutgers, State U. New Jersey, Newark	327	573	0	0	420	0	0	15	39	0	0	99
U. Louisiana, Monroe	328	569	0	0	526	0	6	0	0	0	0	37
Saint Louis U.	329	548	0	0	548	0	0	0	0	0	0	0

TABLE 27

## Higher education R&amp;D expenditures funded by state and local governments, ranked by all R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields										
Montclair State U.	330	543	0	102	207	0	0	0	25	0	0	209										
North Carolina Agricultural and Technical State U.	331	542	0	0	132	0	0	0	0	0	316	94										
Purdue U., Northwest	332	531	0	0	212	0	0	0	0	0	0	319										
U. Northern Iowa	333	530	8	0	258	0	9	0	247	0	0	8										
Fayetteville State U.	334	519	250	0	269	0	0	0	0	0	0	0										
American U.	335	513	0	0	0	0	0	0	41	123	0	349										
Purdue U., Fort Wayne	335	513	0	0	3	0	0	0	0	0	62	448										
Manhattan C.	337	505	0	0	0	22	0	0	0	0	476	7										
U. Colorado Colorado Springs	338	504	0	0	0	0	69	0	0	0	6	429										
Boston U.	339	501	0	116	191	0	0	0	0	0	0	194										
Hope C.	340	493	0	0	493	0	0	0	0	0	0	0										
U. Oklahoma, Tulsa	340	493	0	0	0	0	0	28	9	0	337	119										
Southern Illinois U., Carbondale	342	492	0	0	378	0	0	0	15	92	7	0										
Middle Tennessee State U.	343	480	0	0	72	0	0	0	2	0	0	406										
U. Texas of the Permian Basin	344	460	0	0	3	0	0	3	20	3	63	368										
Tennessee State U.	345	455	i	1	i	0	i	394	i	0	i	23	i	17	i							
Loma Linda U.	346	444	0	0	444	0	0	0	0	0	0	0										
U. Akron	347	442	0	270	0	0	85	0	0	0	87	0										
U. Wisconsin-Green Bay	348	441	10	i	15	i	252	i	3	i	20	i	7	i	20	i	0	i	70	i	44	i
Texas Christian U.	349	438	0	0	24	0	0	0	0	0	6	408										
U. New Haven	350	434	0	4	0	0	0	0	430	0	0	0										
St. Cloud State U.	351	429	1	110	145	0	0	0	108	0	0	65										
Pennsylvania State U., Behrend	352	428	35	34	150	0	0	6	1	0	79	123										
U. Dayton	353	425	160	0	0	0	23	4	0	0	82	156										
Grand Valley State U.	354	418	0	104	194	0	0	0	0	0	82	38										
U. Wisconsin-Eau Claire	355	410	0	0	48	0	303	0	8	0	0	51										
Brandeis U.	356	404	0	0	0	0	0	0	404	0	0	0										
Occidental C.	357	395	0	222	86	0	0	0	87	0	0	0										
Colorado C.	358	385	0	0	0	0	0	0	0	0	0	385										
Desert Research Institute	359	378	0	378	0	0	0	0	0	0	0	0										
Western Kentucky U.	360	377	0	0	298	0	0	0	2	0	77	0										



TABLE 27

**Higher education R&D expenditures funded by state and local governments, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Indiana State U.	392	244	0	0	243	0	0	0	0	0	1	0
Louisiana State U., Health Sciences Center, New Orleans	392	244	0	0	244	0	0	0	0	0	0	0
Sam Houston State U.	394	232	0	0	119	0	0	0	23	0	0	90
Appalachian State U.	395	229	0	0	172	12	3	0	25	0	0	17
U. Central del Caribe	396	223	0	0	223	0	0	0	0	0	0	0
Dakota State U.	397	218	118	0	0	0	0	0	0	0	0	100
California State U., Bakersfield	398	215	0	0	3	1	148	0	34	0	29	0
U. of the Sciences Philadelphia	399	213	0	0	213	0	0	0	0	0	0	0
SUNY, C. Brockport	400	211	0	11	173	0	27	0	0	0	0	0
U. of the Pacific	400	211	0	0	211	0	0	0	0	0	0	0
Franklin and Marshall C.	402	209	0	0	0	0	0	0	0	0	0	209
Youngstown State U.	403	206	0	0	8	0	0	0	0	0	198	0
Wellesley C.	404	204	0	0	0	0	0	0	1	0	0	203
Albany State U.	405	203	0	152	40	0	0	0	11	0	0	0
Augusta U.	406	200	0	0	200	0	0	0	0	0	0	0
U. San Francisco	406	200	0	78	92	0	0	0	0	30	0	0
Missouri State U.	408	196	0	0	191	0	0	0	0	0	0	5
Gallaudet U.	409	192	0	0	0	0	0	0	192	0	0	0
Loyola U., Chicago	410	188	0	0	187	0	0	0	1	0	0	0
Central Washington U.	411	185	0	1	159	0	0	0	20	0	5	0
Eastern Michigan U.	411	185	0	0	5	0	0	0	127	0	0	53
Eastern Virginia Medical School	413	176	0	0	176	0	0	0	0	0	0	0
Missouri U. of Science and Technology	414	172	0	0	18	0	0	0	0	0	154	0
U. Minnesota, Morris	415	170	109	0	0	0	57	0	4	0	0	0
U. West Florida	415	170	22	0	69	0	0	0	2	0	0	77
CUNY, C. Staten Island	417	165	0	0	158	0	7	0	0	0	0	0
Minnesota State U., Mankato	418	154	0	0	103	0	9	0	0	0	42	0
Towson U.	419	153	0	0	11	0	0	0	55	0	0	87
U. Maryland, Eastern Shore	419	153	0	0	153	0	0	0	0	0	0	0
U. Texas, Tyler	419	153	0	0	74	7	0	0	0	0	46	26
Charles R. Drew U. of Medicine and Science	422	151	0	0	151	0	0	0	0	0	0	0

TABLE 27

**Higher education R&D expenditures funded by state and local governments, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Catholic U. of America	423	150	0	0	0	0	0	0	0	0	150	0
DePaul U.	423	150	0	0	0	0	0	0	0	102	0	48
U. Puerto Rico, Rio Piedras	423	150	0	26	124	0	0	0	0	0	0	0
U. Wisconsin-Superior	426	148	0	0	148	0	0	0	0	0	0	0
Stockton U.	427	147	0	147	0	0	0	0	0	0	0	0
New York Institute of Technology	428	142	73	0	0	0	0	0	31	0	0	38
Northwestern U.	429	141	0	0	141	0	0	0	0	0	0	0
California State U., Maritime Academy	430	131	0	0	0	0	0	0	0	0	51	80
Sul Ross State U.	431	130	0	2	93	0	0	0	35	0	0	0
CUNY, Graduate Center	432	128	0	0	0	0	0	0	9	0	0	119
Oklahoma State U., Center for Health Sciences	433	127	0	0	93	0	0	34	0	0	0	0
Albizu U.	434	126	0	0	0	0	0	126	0	0	0	0
Marymount U.	435	125	125	0	0	0	0	0	0	0	0	0
U. Missouri, Kansas City	436	122	0	0	0	0	0	60	4	0	0	58
Santa Clara U.	437	118	0	0	111	0	0	0	7	0	0	0
California State U., Los Angeles	438	108	0	0	82	0	26	0	0	0	0	0
California State U., Stanislaus	439	104	0	0	79	0	0	0	25	0	0	0
Embry-Riddle Aeronautical U.	440	103	0	0	0	0	0	0	0	0	103	0
U. of Mary Washington	441	100	44	0	0	0	0	0	0	0	0	56
Southern U. and A&M C., Baton Rouge	442	95	0	0	95	0	0	0	0	0	0	0
U. Wisconsin-Oshkosh	443	94	0	0	32	0	0	0	0	0	62	0
Hofstra U.	444	92	0	0	92	0	0	0	0	0	0	0
Florida Polytechnic U.	445	91	0	0	0	0	22	0	4	0	40	25
Southern Connecticut State U.	446	90	0	90	0	0	0	0	0	0	0	0
New School	447	86	0	0	9	0	0	0	0	0	0	77
U. Washington, Bothell	447	86	0	67	16	0	0	0	0	0	0	3
SUNY, Oswego	449	81	0	0	49	0	2	0	30	0	0	0
U. Arkansas, Little Rock	450	79	0	0	0	0	15	0	0	0	64	0
Niagara U.	451	78	0	0	10	0	0	0	0	0	0	68
Black Hills State U.	452	76	0	0	76	0	0	0	0	0	0	0
CUNY, Graduate School of Public Health and Health Policy	452	76	0	0	76	0	0	0	0	0	0	0

TABLE 27

## Higher education R&amp;D expenditures funded by state and local governments, ranked by all R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields	
Eastern Kentucky U.	452	76	0	0	26	0	0	0	50	0	0	0	
Mercer U.	452	76	0	0	4	0	0	0	0	0	72	0	
Texas A&M U.-Commerce	452	76	0	0	32	0	0	0	0	0	44	0	
Liberty U.	457	75	0	0	0	0	0	0	0	0	75	0	
Clark U.	458	74	0	0	1	0	0	0	73	0	0	0	
U. Houston-Downtown	459	72	0	17	0	0	0	0	0	0	0	55	
Southern Illinois U., Edwardsville	460	71	0	4	50	0	4	0	6	0	7	0	
U. of St. Thomas (MN)	461	66	5	0	42	0	19	0	0	0	0	0	
West Chester U. Pennsylvania	461	66	0	0	34	0	0	0	32	0	0	0	
CUNY, Brooklyn C.	463	64	0	0	0	0	0	0	3	0	61	0	
SUNY, C. Plattsburgh	464	61	0	61	0	0	0	0	0	0	0	0	
Azusa Pacific U.	465	59	0	0	0	0	0	1	58	0	0	0	
C. New Jersey	466	56	0	0	17	0	0	0	0	0	39	0	
Philadelphia C. of Osteopathic Medicine	467	55	0	0	0	0	0	55	0	0	0	0	
Southeastern Louisiana U.	467	55	2	0	3	0	9	0	0	0	3	38	
Seattle U.	469	54	0	0	0	0	0	0	0	0	1	53	
Citadel Military C. South Carolina	470	53	0	0	0	0	0	0	0	0	0	53	
U. Hawaii, Hilo	470	53	0	0	0	0	0	0	53	0	0	0	
Elizabeth City State U.	472	52	52	0	0	0	0	0	0	0	0	0	
Johnson C. Smith U.	472	52	i	0	i	0	i	0	i	0	i	0	52
Ithaca C.	474	51	0	51	0	0	0	0	0	0	0	0	
U. Northern Colorado	475	46	0	5	30	0	0	0	11	0	0	0	
Fort Valley State U.	476	42	42	0	0	0	0	0	0	0	0	0	
Rhode Island School of Design	477	41	i	0	i	0	i	0	i	11	i	0	30
Fort Hays State U.	478	37	0	11	26	0	0	0	0	0	0	0	
Hawaii Pacific U.	479	36	0	33	0	0	0	0	3	0	0	0	
Roger Williams U.	480	34	0	24	0	0	0	0	0	0	10	0	
U. Puerto Rico, Mayaguez	481	33	0	0	0	0	0	0	33	0	0	0	
Willamette U.	481	33	0	0	0	0	0	0	0	0	0	33	
Reed C.	483	32	i	0	i	0	i	4	i	5	i	0	11
West Virginia School of Osteopathic Medicine	484	31	0	0	31	0	0	0	0	0	0	0	

TABLE 27

## Higher education R&amp;D expenditures funded by state and local governments, ranked by all R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Alaska, Southeast	485	30	0	0	30	0	0	0	0	0	0	0
Northland C.	486	29 i	0 i	1 i	13 i	0 i	0 i	1 i	4 i	0 i	0 i	10 i
Trinity U.	486	29	0	0	10	0	19	0	0	0	0	0
Brown U.	488	28	0	28	0	0	0	0	0	0	0	0
Calvin U.	489	27 i	11 i	1 i	3 i	0 i	3 i	0 i	4 i	0 i	4 i	1 i
Central Michigan U.	490	26	0	0	11	0	0	0	15	0	0	0
New England C. of Optometry	490	26	0	0	26	0	0	0	0	0	0	0
U. San Diego	490	26	0	0	11	0	0	0	0	0	0	15
Fordham U.	493	25	0	0	25	0	0	0	0	0	0	0
William Paterson U.	493	25	0	0	25	0	0	0	0	0	0	0
Fisk U.	495	24	0	0	22	0	0	0	0	0	0	2
SUNY, Downstate Health Sciences U.	496	23	0	0	23	0	0	0	0	0	0	0
Midwestern U.	497	22	0	0	22	0	0	0	0	0	0	0
U. Michigan, Dearborn	497	22	0	0	0	0	0	0	0	0	22	0
Cold Spring Harbor Laboratory	499	21	0	0	21	0	0	0	0	0	0	0
Murray State U.	499	21	0	0	4	0	17	0	0	0	0	0
Vassar C.	499	21	0	0	21	0	0	0	0	0	0	0
East Tennessee State U.	502	20	3	0	17	0	0	0	0	0	0	0
California State U., Dominguez Hills	503	19	0	0	0	19	0	0	0	0	0	0
Louisiana State U., Health Sciences Center, Shreveport	503	19	0	0	19	0	0	0	0	0	0	0
Biola U.	505	18 i	0 i	0 i	16 i	0 i	0 i	0 i	0 i	0 i	2 i	0 i
U. Hawaii, system office	506	17	0	17	0	0	0	0	0	0	0	0
Erikson Institute	507	16	0	0	0	0	0	0	0	0	0	16
Pepperdine U.	507	16	0	0	0	0	0	0	0	0	0	16
Rutgers, State U. New Jersey, Camden	507	16	0	0	0	0	0	13	3	0	0	0
Smith C.	507	16	0	16	0	0	0	0	0	0	0	0
Fort Lewis C.	511	14	0	4	10	0	0	0	0	0	0	0
Northeast Ohio Medical U.	511	14	0	0	14	0	0	0	0	0	0	0
Northern Kentucky U.	513	13	0	0	4	0	0	0	0	0	0	9
Milwaukee School of Engineering	514	10	0	0	0	0	0	0	0	0	10	0
SUNY, Geneseo	514	10	0	0	10	0	0	0	0	0	0	0

TABLE 27

**Higher education R&D expenditures funded by state and local governments, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Eastern Connecticut State U.	516	9	0	9	0	0	0	0	0	0	0	0
Pomona C.	516	9	0	9	0	0	0	0	0	0	0	0
Drake U.	518	8	0	0	8	0	0	0	0	0	0	0
Northern Michigan U.	518	8	0	0	8	0	0	0	0	0	0	0
Davidson C.	520	7	0	0	0	0	0	0	0	7	0	0
Kettering U.	520	7	0	0	0	0	0	0	0	0	0	7
Bowdoin C.	522	6	0	6	0	0	0	0	0	0	0	0
Carleton C.	522	6	0	0	0	0	0	0	0	0	0	6
U. New England	522	6	0	0	6	0	0	0	0	0	0	0
U. Missouri, Saint Louis	525	5	0	0	5	0	0	0	0	0	0	0
Lafayette C.	526	4	0	0	0	0	0	0	0	0	0	4
Macalester C.	526	4	0	4	0	0	0	0	0	0	0	0
Western Illinois U.	526	4	0	0	4	0	0	0	0	0	0	0
Andrews U.	529	3	0	0	0	0	0	0	0	0	0	3
Morehead State U.	529	3	0	0	3	0	0	0	0	0	0	0
U. Chicago	529	3	0	0	0	0	0	0	3	0	0	0
U. North Georgia	529	3	0	0	0	0	0	0	0	0	0	3
Christopher Newport U.	533	2	0	0	0	0	2	0	0	0	0	0
Furman U.	533	2	0	0	0	0	2	0	0	0	0	0
Langston U.	533	2	0	0	0	0	0	0	0	0	0	2

i = imputed.

nec = not elsewhere classified; S&amp;E = science and engineering.

<sup>a</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

<sup>b</sup> The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

<sup>c</sup> The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

<sup>d</sup> Johns Hopkins University includes the Applied Physics Laboratory, with \$300 thousand in state and local government-financed R&D expenditures in FY 2021.



**Note(s):**

Institutions reporting zero expenditures in ranked total for FY 2021 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2021.

TABLE 28

**Higher education R&D expenditures funded by institutional funds, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
All institutions	-	22,448,362	597,889	656,303	12,432,608	212,549	1,247,864	358,712	1,109,283	451,354	2,794,243	2,587,557
U. Michigan, Ann Arbor	1	581,768	6,730	6,963	277,663	12,054	23,291	10,392	79,188	1,823	60,023	103,641
U. Pennsylvania	2	511,958	9,627	448	305,459	4,494	15,875	3,483	26,784	0	34,065	111,723
Ohio State U.	3	425,597	2,617	2,023	345,534	1,426	7,033	1,393	4,806	17,394	27,783	15,588
U. California, San Francisco	4	418,589	0	0	406,018	0	12,571	0	0	0	0	0
U. Wisconsin-Madison	5	412,540	4,435	19,153	278,279	984	14,871	2,212	18,740	8,469	30,340	35,057
Harvard U.	6	384,197	5,562	6,852	168,035	1,866	30,929	1,875	53,728	8,209	34,083	73,058
Yale U.	7	334,314	1,832	4,331	279,638	1,243	23,030	3,433	8,435	29	9,579	2,764
Vanderbilt U. and Vanderbilt U. Medical Center	8	313,810	5,454	838	217,659	695	13,548	7,859	4,000	0	38,372	25,385
Texas A&M U., College Station and Health Science Center	9	313,192	6,167	14,984	115,994	1,507	20,644	2,388	8,541	4,990	126,297	11,680
U. Minnesota, Twin Cities	10	309,620	11,648	2,806	214,305	1,553	7,636	6,387	9,126	1,574	28,975	25,610
U. Maryland <sup>a</sup>	11	307,481	15,128	4,148	198,371	529	14,767	707	12,870	134	37,831	22,996
U. North Carolina, Chapel Hill	12	304,506	2,607	4,315	241,620	688	8,697	11,498	11,879	15	7,589	15,598
U. California, Los Angeles	13	302,528	1,639	2,767	205,197	562	10,380	2,422	29,813	16,277	11,886	21,585
Michigan State U.	14	275,632	8,802	2,461	124,230	4,699	44,147	4,764	16,508	13,864	39,704	16,453
U. Florida	15	266,197	4,664	3,796	204,060	505	6,868	1,792	5,138	4	24,813	14,557
Indiana U., Bloomington	16	264,093	13,596	5,421	158,451	304	9,509	6,076	26,013	10,550	6,305	27,868
Arizona State U.	17	258,139	4,004	12,176	32,858	1,309	9,835	4,238	37,523	73,597	43,597	39,002
U. Pittsburgh, Pittsburgh	18	255,241	3,324	2,182	210,951	772	10,675	2,431	837	5,685	14,539	3,845
U. California, San Diego	19	250,863	15,985	36,408	135,481	1,340	10,741	2,437	9,056	6,049	25,787	7,579
New York U.	20	243,805	1,772	3	196,262	1,615	1,159	1,138	7,718	17	7,505	26,616
Baylor C. of Medicine	21	239,079	0	0	239,079	0	0	0	0	0	0	0
U. Arizona	22	234,514	5,592	10,023	130,382	533	33,042	919	8,555	2,063	19,585	23,820
U. Texas M. D. Anderson Cancer Center	23	233,279	0	0	213,259	2,141	4,643	9,363	3,873	0	0	0
Northwestern U.	24	227,719	1,934	321	144,296	352	28,803	787	7,757	8,397	18,640	16,432
Cornell U.	25	220,800	3,855	1,236	140,296	309	19,017	3,270	8,545	0	25,937	18,335
U. Georgia	26	220,665	2,742	6,950	103,610	4,671	5,777	8,703	15,068	4,689	9,134	59,321
Virginia Polytechnic Institute and State U.	27	220,645	11,105	1,482	83,207	3,323	9,733	1,843	6,318	19	96,589	7,026

TABLE 28

**Higher education R&D expenditures funded by institutional funds, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Iowa	28	220,579	1,333	636	162,363	83	3,113	2,329	3,321	2,419	22,055	22,927
Rockefeller U.	29	218,134	8,886	120	205,549	1,175	2,404	0	0	0	0	0
Pennsylvania State U., University Park and Hershey Medical Center	30	216,134	10,255	8,804	69,571	974	29,611	2,404	10,376	0	70,645	13,494
Emory U.	31	213,741	1,475	227	191,338	59	7,017	719	2,627	0	2,771	7,508
Purdue U., West Lafayette	32	211,557	4,740	2,751	97,475	818	10,977	1,667	7,086	1,434	67,858	16,751
U. California, Davis	33	207,272	0	13,503	141,625	167	6,615	492	13,368	9,712	18,600	3,190
U. Illinois, Urbana-Champaign	34	206,718	22,046	336	88,487	957	20,033	4,066	2,405	11,960	42,855	13,573
U. Utah	35	203,839	10,709	15,184	138,124	1,185	9,710	2,303	2,106	0	15,485	9,033
Washington U., Saint Louis	36	188,980	207	309	174,585	18	3,431	848	365	1,167	2,398	5,652
U. California, Berkeley	37	185,077	1,575	1,418	63,426	711	15,941	3,263	25,685	16,057	34,841	22,160
U. Virginia, Charlottesville	38	181,375	2,154	1,331	126,442	57	4,963	1,681	6,131	461	16,716	21,439
U. Southern California	39	179,130	2,480	2,432	129,325	115	3,876	2,415	15,187	9	11,921	11,370
U. South Florida <sup>b</sup>	40	161,442	8,203	6,634	68,337	2,343	4,748	4,812	13,277	672	17,664	34,752
Boston U.	41	160,347	5,960	1,479	79,930	1,241	10,320	7,211	5,890	4,998	27,007	16,311
U. Missouri, Columbia	42	157,031	693	465	89,828	340	1,680	1,343	2,914	6,559	39,405	13,804
Duke U.	43	153,692	680	940	124,000	1,131	1,590	1,591	6,381	16	11,409	5,954
U. Tennessee, Knoxville	44	151,533	2,869	1,740	45,161	2,153	7,321	3,115	7,168	6,657	49,956	25,393
U. Texas Southwestern Medical Center	45	151,111	0	0	151,111	0	0	0	0	0	0	0
Johns Hopkins U. <sup>c</sup>	46	147,355	8,771	4,375	78,099	3,053	11,652	487	264	1,348	39,216	90
Scripps Research Institute	47	147,290	0	0	147,290	0	0	0	0	0	0	0
U. Cincinnati	48	145,772	1,605	487	94,953	683	4,042	1,365	4,153	341	23,803	14,340
Virginia Commonwealth U.	49	144,356	4,732	12	69,529	137	461	1,095	3,378	0	16,097	48,915
Dartmouth C. and Dartmouth Hitchcock Medical Center	50	144,008	12,181	3,248	38,409	5,233	15,776	1,780	20,533	3,830	7,129	35,889
Florida State U.	51	143,790	6,513	6,560	25,553	4,386	17,279	6,062	13,952	3,228	12,989	47,268
U. Texas, Austin	52	139,669	5,312	19,604	32,369	4,657	16,803	1,062	4,824	2,135	28,190	24,713
Icahn School of Medicine at Mount Sinai	53	137,874	0	0	137,874	0	0	0	0	0	0	0
U. Illinois, Chicago	54	137,227	2,527	376	100,355	2,022	4,045	895	4,359	5,010	11,697	5,941

TABLE 28

**Higher education R&D expenditures funded by institutional funds, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Stanford U.	55	136,444	2,063	3,851	99,141	277	5,031	2,766	5,343	38	11,340	6,594
SUNY, U. Buffalo	56	132,361	7,538	1,985	85,532	1,009	5,086	1,626	5,897	143	19,047	4,498
U. California, Irvine	57	130,928	4,881	1,765	74,026	1,164	7,626	3,078	5,697	662	19,214	12,815
Auburn U., Auburn	58	130,767	2,768	1,769	42,353	3,075	8,148	2,496	2,836	1,069	32,286	33,967
U. Kentucky	59	127,488	1,377	1,378	87,539	199	1,257	668	1,296	15,761	13,299	4,714
North Carolina State U.	60	126,142	2,988	4,733	66,784	4,279	6,159	581	3,104	3,558	30,445	3,511
Iowa State U.	61	122,844	2,678	2,651	45,745	5,896	6,044	2,220	2,908	131	38,558	16,013
Oklahoma State U., Stillwater	62	117,732	3,018	1,887	31,619	3,791	5,972	4,227	4,717	5,131	15,013	42,357
U. Alabama, Birmingham	63	116,561	106	2	108,267	18	970	427	12	10	2,007	4,742
Massachusetts Institute of Technology	64	116,258	19,215	3,481	11,538	1,029	18,064	48	3,083	2,211	51,502	6,087
U. Oklahoma, Norman and Health Science Center	65	116,014	1,933	14,837	48,464	1,829	6,419	337	4,862	0	17,231	20,102
Carnegie Mellon U.	66	114,892	31,164	4	3,751	8,796	9,473	1,286	8,072	1,822	35,177	15,347
U. Kansas	67	112,360	1,005	6,114	67,712	31	2,487	2,775	392	8,355	5,092	18,397
Florida International U.	68	111,950	7,109	4,231	31,935	1,378	12,689	8,974	11,720	770	12,470	20,674
U. Nebraska, Lincoln	69	111,550	3,015	1,210	39,258	2,412	6,979	4,392	5,407	2,272	18,589	28,016
Rutgers, State U. New Jersey, New Brunswick	70	111,501	1,893	8,406	72,387	2,861	7,952	1,840	2,311	3,609	2,739	7,503
Texas Tech U.	71	108,999	2,681	2,758	29,103	2,933	9,637	5,867	7,259	0	17,887	30,874
Washington State U.	72	106,804	3,402	2,312	60,749	176	5,199	1,553	4,857	418	15,879	12,259
Georgia State U.	73	105,546	3,047	608	27,918	1,078	7,346	5,280	19,246	0	0	41,023
U. Washington, Seattle	74	105,070	4,343	7,397	66,570	74	2,416	205	1,182	0	12,520	10,363
Clemson U.	75	98,955	3,464	0	22,627	470	3,345	580	805	0	32,020	35,644
Louisiana State U., Baton Rouge	76	98,424	1,010	17,255	40,076	121	7,603	363	1,136	10,715	13,662	6,483
U. South Carolina, Columbia	77	96,392	990	6,161	24,141	245	3,786	2,861	8,840	154	16,525	32,689
Syracuse U.	78	96,162	3,868	1,750	5,163	2,115	5,377	2,195	10,048	142	13,931	51,573
Temple U.	79	90,467	3,417	949	58,960	1,822	7,016	3,284	4,794	411	1,794	8,020
SUNY, Binghamton U.	80	89,466	6,077	1,373	10,502	3,045	8,347	6,230	18,316	0	22,846	12,730
U. Connecticut	81	88,458	1,263	2,487	51,478	500	9,772	6,231	2,100	1,920	10,364	2,343
Princeton U.	82	86,675	3,746	2,821	19,157	3,782	22,007	2,336	14,649	0	11,193	6,984
Medical C. Wisconsin	83	85,666	0	0	83,751	0	0	0	0	0	1,915	0

TABLE 28

## Higher education R&amp;D expenditures funded by institutional funds, ranked by all R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
SUNY, Stony Brook U.	84	84,647	1,298	8,535	44,262	2,114	8,464	1,220	2,036	8,952	5,250	2,516
U. Notre Dame	85	84,208	4,524	0	8,137	1,842	15,938	658	3,120	5,255	33,371	11,363
Uniformed Services U. of the Health Sciences	86	82,058	0	0	78,243	0	0	3,815	0	0	0	0
Columbia U. in the City of New York	87	79,363	612	6,316	54,007	219	2,350	343	2,796	0	3,062	9,658
U. Hawaii, Manoa	88	78,176	486	19,812	38,867	16	9,371	63	1,213	1,113	5,439	1,796
SUNY, Polytechnic Institute	89	77,753	0	0	838	0	0	0	0	0	76,915	0
Colorado State U., Fort Collins	90	76,610	338	9,588	50,685	243	1,041	325	1,927	822	5,098	6,543
U. Central Florida	91	76,091	5,904	1,848	11,874	2,478	9,881	3,474	5,069	565	15,430	19,568
U. Nevada, Reno	92	74,924	2,711	7,522	23,801	1,304	2,429	2,603	4,998	1,878	12,033	15,645
U. Vermont	93	74,407	1,473	1,373	42,539	1,798	2,226	1,951	4,929	998	5,743	11,377
Wayne State U.	94	72,758	657	211	53,196	336	5,984	573	682	4,767	3,662	2,690
West Virginia U.	95	72,419	416	1,854	44,648	205	3,352	646	1,831	660	15,840	2,967
Medical U. South Carolina	96	72,286	0	0	72,286	0	0	0	0	0	0	0
U. Massachusetts, Amherst	97	71,954	7,164	1,223	24,679	722	6,646	2,139	2,489	1,014	19,067	6,811
Georgia Institute of Technology	98	71,780	14,669	311	8,421	43	1,985	54	1,638	0	33,880	10,779
U. Houston	99	71,291	1,171	2,040	6,464	563	38,459	1,196	383	11	12,029	8,975
U. Miami	100	69,955	125	3,260	62,587	129	308	2,175	0	0	1,143	228
U. Colorado Anschutz Medical Campus <sup>d</sup>	101	69,836	0	0	69,664	0	8	0	48	0	3	113
North Dakota State U.	102	69,112	2,573	423	40,386	1,414	2,611	1,153	4,437	1,017	6,497	8,601
Kansas State U.	103	68,224	1,409	540	31,420	2,156	3,129	1,112	4,410	5,285	11,374	7,389
U. Nevada, Las Vegas	104	67,657	533	2,677	16,920	2,573	6,039	3,686	6,139	363	5,917	22,810
Albert Einstein C. of Medicine	105	67,563	0	0	67,563	0	0	0	0	0	0	0
U. Texas, San Antonio	106	67,130	6,227	1,035	7,752	1,438	4,295	2,013	5,710	984	9,790	27,886
U. Louisville	107	65,375	25	12	48,073	383	1,061	1,050	818	1,753	6,280	5,920
George Mason U.	108	65,041	1,692	744	33,779	703	1,003	1,050	15,643	0	2,783	7,644
U. Arkansas for Medical Sciences	109	63,526	0	0	63,526	0	0	0	0	0	0	0

TABLE 28

**Higher education R&D expenditures funded by institutional funds, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
George Washington U.	110	63,225	3,913	50	32,026	165	2,055	523	8,174	398	5,499	10,422
U. New Mexico	111	62,426	867	487	40,887	27	887	1,237	3,001	6,053	6,673	2,307
Rice U.	112	62,352	2,890	2,017	4,557	2,324	9,408	1,291	8,438	69	28,753	2,605
New Jersey Institute of Technology	113	60,952	7,035	0	3,127	3,353	6,711	0	4,553	16	24,702	11,455
Mississippi State U.	114	58,242	993	2,440	31,718	160	2,068	181	7,886	789	10,519	1,488
U. Maine	115	56,407	1,486	9,620	12,222	639	3,047	964	1,078	6,894	13,195	7,262
San Diego State U.	116	56,085	678	751	10,644	2,660	3,382	5,396	3,586	6,291	5,163	17,534
U. Alabama, Tuscaloosa	117	55,682	2,326	2,929	8,184	925	2,938	2,817	6,401	0	10,986	18,176
U. California, Santa Barbara	118	54,569	3,642	6,650	4,566	370	9,282	823	4,321	33	15,163	9,719
U. North Texas, Denton	119	53,591	4,799	617	9,278	8	5,115	1,814	3,726	0	6,365	21,869
Montana State U., Bozeman	120	52,653	1,019	1,771	16,857	1,110	5,329	311	976	5,899	9,714	9,667
U. Arkansas, Fayetteville	121	51,933	2,192	1,936	20,820	26	3,437	439	577	0	13,408	9,098
U. Texas Health Science Center, San Antonio	122	51,848	0	0	51,848	0	0	0	0	0	0	0
Georgetown U.	123	51,440	1,226	0	35,017	6	1,463	0	4,034	0	0	9,694
California Institute of Technology	124	50,562	1,717	5,699	11,255	120	20,585	0	0	0	9,740	1,446
Case Western Reserve U.	125	50,526	226	43	42,677	64	903	349	1,469	209	3,989	597
Brown U.	126	50,127	3,330	1,803	21,613	1,570	4,944	344	4,820	939	5,216	5,548
SUNY, U. Albany	127	49,949	3,617	6,887	8,513	1,038	2,973	2,482	9,897	23	1,737	12,782
U. Texas, Arlington	128	49,685	2,341	590	9,421	282	5,629	1,353	68	0	16,791	13,210
Tulane U.	129	49,660	401	1,289	27,929	133	1,667	457	3,109	0	2,014	12,661
U. Massachusetts, Medical School	130	49,135	0	0	49,135	0	0	0	0	0	0	0
U. California, Riverside	131	49,131	631	3,793	34,170	374	667	282	1,929	613	3,522	3,150
U. Oregon	132	48,194	1,374	534	24,009	52	2,598	1,858	1,852	1,944	0	13,973
Thomas Jefferson U.	133	47,728	0	0	47,728	0	0	0	0	0	0	0
U. Texas Health Science Center, Houston	134	47,653	0	0	47,653	0	0	0	0	0	0	0
U. New Hampshire	135	47,286	468	8,378	14,954	868	2,478	623	2,696	0	6,642	10,179
U. Delaware	136	47,254	558	3,105	20,884	155	3,332	968	4,749	304	12,221	978
U. Montana, Missoula	137	46,982	442	2,323	17,609	471	2,264	464	17,984	0	0	5,425

TABLE 28

**Higher education R&D expenditures funded by institutional funds, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Augusta U.	138	46,412	57	0	46,044	0	153	67	26	0	0	65
Northeastern U.	139	44,964	4,421	1,122	8,293	313	4,724	1,819	3,235	0	15,171	5,866
Oregon Health and Science U.	140	44,030	0	0	42,572	0	0	0	0	0	1,458	0
American U.	141	42,117	503	491	854	975	1,137	921	8,720	2,094	0	26,422
U. Rochester	142	41,775	346	225	36,821	3	1,510	771	25	625	1,298	151
U. North Dakota	143	41,133	832	2,710	13,895	372	2,115	1,376	1,555	100	9,472	8,706
Rensselaer Polytechnic Institute	144	40,932	2,642	569	1,600	588	4,639	1,078	1,329	0	23,191	5,296
U. Louisiana, Lafayette	145	40,891	4,596	1,738	6,264	2,244	2,654	5	0	0	14,150	9,240
U. Texas Medical Branch	146	39,565	0	0	38,753	0	0	0	0	0	812	0
U. Nebraska, Medical Center	147	38,843	0	0	38,843	0	0	0	0	0	0	0
U. Rhode Island	148	37,252	23	14,904	4,201	5	325	717	120	8,995	1,776	6,186
U. Alaska, Fairbanks	149	36,765	119	13,876	13,178	26	4,518	0	59	309	4,648	32
U. Massachusetts, Lowell	150	36,562	2,712	780	4,898	693	6,006	812	2,512	397	11,743	6,009
Drexel U.	151	36,063	1,127	0	22,551	70	478	379	699	1,169	7,283	2,307
Cold Spring Harbor Laboratory	152	35,757	0	0	35,757	0	0	0	0	0	0	0
Brandeis U.	153	34,998	1,557	0	3,823	1,300	4,294	1,101	16,334	0	2,988	3,601
U. Texas, El Paso	154	34,866	686	1,243	4,686	1,203	2,554	1,722	2,408	2,012	5,047	13,305
U. Memphis	155	34,139	3,258	1,441	4,360	979	1,894	2,822	3,452	1,297	4,015	10,621
U. Colorado Boulder	156	33,465	365	805	4,794	0	3,394	901	1,936	107	14,101	7,062
Van Andel Research Institute	157	32,688	0	0	32,688	0	0	0	0	0	0	0
U. Chicago	158	32,174	508	286	22,522	279	3,282	405	2,517	0	1,491	884
Texas State U.	159	31,792	289	3,920	6,019	171	316	79	411	1,619	7,122	11,846
U. California, Santa Cruz	160	31,668	326	5,641	4,750	14	11,975	190	2,336	493	4,156	1,787
Kent State U.	161	31,409	985	547	4,446	1,156	4,280	1,767	3,621	384	1,785	12,438
Michigan Technological U.	162	30,768	2,236	3,347	1,583	1,678	2,730	440	732	112	15,088	2,822
U. Tennessee, Health Science Center	163	30,132	0	0	29,848	0	0	0	0	284	0	0
Georgia Southern U.	164	29,635	941	594	5,815	1,327	1,825	1,067	3,641	4	2,939	11,482
U. Texas, Dallas	165	29,308	1,794	307	5,547	245	3,533	1,143	781	452	9,027	6,479
U. Texas Rio Grande Valley	166	29,053	1,393	1,008	8,834	1,797	2,034	968	3,483	0	2,214	7,322

TABLE 28

**Higher education R&D expenditures funded by institutional funds, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Mississippi	167	28,869	154	69	14,276	153	2,870	858	1,549	174	1,377	7,389
William & Mary	168	28,188	494	19,662	666	39	959	80	2,198	678	0	3,412
Indiana U.-Purdue U., Indianapolis	169	27,359	1,589	189	8,258	26	735	527	6,026	3,604	2,076	4,329
Baylor U.	170	26,678	668	1,572	3,976	466	4,906	1,839	960	5,354	3,217	3,720
U. Alabama, Huntsville	171	26,294	3,304	2,412	2,093	694	3,708	233	223	0	9,470	4,157
U. Wyoming	172	26,166	199	410	11,769	15	49	365	162	1,667	11,519	11
Southern Illinois U., Carbondale	173	25,725	534	871	20,658	6	940	138	859	398	1,321	0
Oregon State U.	174	25,573	834	2,791	16,726	18	110	70	329	349	4,346	0
U. Massachusetts, Boston	175	25,532	1,319	1,462	2,153	416	1,345	1,722	6,399	444	426	9,846
Saint Louis U.	176	24,824	421	982	21,281	4	584	18	108	0	429	997
Utah State U.	177	24,792	742	641	9,469	376	1,018	2,470	634	0	8,168	1,274
Ohio U.	178	24,765	20	577	8,693	3	1,357	641	488	0	7,611	5,375
Wake Forest U.	179	23,080	117	0	19,057	91	748	344	506	0	352	1,865
U. West Florida	180	22,485	840	18	1,345	75	342	346	3,278	0	437	15,804
East Carolina U.	181	21,450	175	3,260	8,982	7	341	240	1,088	0	1,387	5,970
U. California, Office of the President	182	20,864	0	0	12,959	0	7,905	0	0	0	0	0
Wichita State U.	183	20,493	0	65	603	280	505	253	353	0	9,368	9,066
Missouri U. of Science and Technology	184	19,872	1,317	0	438	0	1,451	40	20	166	15,058	1,382
San Jose State U.	185	19,350	267	1,889	2,579	357	1,188	887	2,106	0	2,310	7,767
U. South Alabama	186	19,099	162	1,187	15,708	0	125	160	194	0	1,417	146
Southern Methodist U.	187	18,643	44	978	651	350	1,000	139	432	97	4,692	10,260
Air Force Institute of Technology	188	18,015	370	0	0	601	7,456	0	0	0	9,588	0
U. Massachusetts, Dartmouth	189	16,908	1,621	5,211	1,616	1,073	1,880	0	20	0	5,355	132
Middle Tennessee State U.	190	16,884	717	119	2,421	857	1,154	580	2,717	0	492	7,827
San Francisco State U.	191	16,710	1,015	1,347	3,507	1,038	2,157	1,143	2,368	212	1,360	2,563
Cleveland State U.	192	16,391	0	0	3,117	459	654	500	4,031	0	3,030	4,600
U. Idaho	193	16,337	252	700	11,323	52	243	9	483	472	2,279	524



TABLE 28

**Higher education R&D expenditures funded by institutional funds, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Woods Hole Oceanographic Institution	194	16,006	0	13,356	0	0	0	0	0	0	2,650	0
Villanova U.	195	15,623	265	267	2,355	88	1,652	604	433	703	5,367	3,889
Louisiana Tech U.	196	15,465	797	236	1,482	679	1,328	299	966	0	4,896	4,782
Tufts U.	197	15,442	0	69	10,833	31	299	411	2,208	463	629	499
Rochester Institute of Technology	198	15,139	2,475	0	339	561	2,544	11	600	0	4,992	3,617
Northern Arizona U.	199	14,963	1,884	960	8,891	0	2,179	110	37	95	401	406
Marquette U.	200	14,809	583	0	4,148	359	1,070	932	374	0	2,528	4,815
Northern Illinois U.	201	14,630	245	108	983	7	1,715	75	3,767	0	1,905	5,825
U. Toledo	202	14,308	0	1,567	7,603	3	2,356	109	26	0	1,888	756
U. California, Merced	203	14,224	4	1,147	2,238	596	2,018	266	1,005	412	2,703	3,835
Old Dominion U.	204	14,098	196	526	4,472	69	1,430	107	171	0	6,303	824
North Carolina Agricultural and Technical State U.	205	14,005	30	0	10,428	34	26	0	6	0	2,164	1,317
Florida Atlantic U.	206	13,984	591	547	5,415	328	1,045	605	32	0	3,412	2,009
Southern Illinois U., Edwardsville	207	13,848	38	1,952	5,628	142	1,055	0	256	0	1,384	3,393
Kennesaw State U.	208	13,722	3,139	0	2,373	166	697	108	1,988	502	1,363	3,386
U. South Dakota	209	13,629	88	0	6,310	189	1,206	677	303	0	453	4,403
New Mexico State U.	210	13,581	429	445	5,469	39	3,468	79	86	108	3,180	278
Central Michigan U.	211	13,477	87	214	9,725	135	67	225	5	1,498	308	1,213
U. Puerto Rico, Rio Piedras	212	13,026	346	744	803	28	704	0	933	725	0	8,743
Boston C.	213	12,870	242	1,937	1,278	47	2,500	919	2,335	0	50	3,562
Illinois State U.	214	12,813	92	105	585	70	198	50	297	0	0	11,416
U. Maryland, Baltimore County	215	12,334	2,279	1,874	1,511	139	695	135	3,099	934	940	728
Howard U.	216	12,094	944	0	8,422	33	780	353	173	0	1,152	237
Long Island U.	217	12,040	0	111	4,691	372	836	895	880	0	0	4,255
Miami U.	218	12,023	496	556	4,957	154	1,003	334	303	0	2,907	1,313
U. Wisconsin-Milwaukee	219	11,939	10	2,216	1,331	209	1,462	415	1,118	975	1,698	2,505
U. North Carolina, Charlotte	220	11,654	664	336	1,438	106	523	356	1,532	0	4,223	2,476
U. Minnesota, Duluth	221	11,624	102	192	9,223	64	279	18	47	0	1,322	377

TABLE 28

**Higher education R&D expenditures funded by institutional funds, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
CUNY, City C.	222	11,311	86	92	1,640	25	995	12	15	0	7,804	642
James Madison U.	223	11,111	503	369	2,248	156	682	1,312	128	0	96	5,617
Fordham U.	224	10,871	106	0	263	70	807	161	359	0	0	9,105
U. North Carolina, Greensboro	225	10,842	73	0	2,446	95	1,341	1,095	410	0	0	5,382
Boise State U.	226	10,836	462	772	2,736	268	793	4	788	288	3,253	1,472
Montclair State U.	227	10,479	207	482	1,471	468	271	2,741	1,291	0	99	3,449
Chapman U.	228	10,273	701	19	1,723	16	199	86	472	0	336	6,721
U. New Orleans	229	10,069	879	232	812	316	1,123	493	1,254	814	1,254	2,892
U. Missouri, Kansas City	230	9,896	1,175	84	4,566	1	329	442	100	448	1,374	1,377
Rush U.	231	9,645	0	0	9,645	0	0	0	0	0	0	0
Naval Postgraduate School	232	9,608	1,941	375	328	305	147	111	985	668	3,376	1,372
U. Southern Mississippi	233	9,499	17	2,692	972	0	718	0	135	0	3,919	1,046
Worcester Polytechnic Institute	234	9,301	1,246	0	716	485	847	0	287	0	5,311	409
SUNY, Upstate Medical U.	235	9,193	0	0	9,193	0	0	0	0	0	0	0
Bowling Green State U.	236	9,178	121	270	1,517	75	899	882	1,261	20	22	4,111
Nova Southeastern U.	237	9,152	18	2,611	6,155	0	0	89	0	0	0	279
California Polytechnic State U., San Luis Obispo	238	9,139	42	43	1,057	502	3,007	21	208	0	1,243	3,016
Mercer U.	239	9,056	124	0	5,705	219	1,871	270	51	124	631	61
Midwestern U.	240	9,040	0	0	9,040	0	0	0	0	0	0	0
Tarleton State U.	241	8,949	395	842	2,708	97	295	368	755	808	166	2,515
Loyola U., Chicago	242	8,941	55	0	7,770	14	310	165	167	0	0	460
Lehigh U.	243	8,806	769	148	368	3	728	90	30	19	6,154	497
Louisiana State U., Health Sciences Center, Shreveport	244	8,765	0	0	8,765	0	0	0	0	0	0	0
Texas Christian U.	245	8,684	0	0	0	0	0	0	0	8,684	0	0
U. Maryland Center for Environmental Science	246	8,670	0	8,670	0	0	0	0	0	0	0	0
Marshall U.	247	8,589	25	171	6,534	0	82	1	3	0	603	1,170
Oakland U.	248	8,499	362	0	3,856	0	2,258	43	105	0	1,386	489

TABLE 28

**Higher education R&D expenditures funded by institutional funds, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Texas Tech U., Health Sciences Center	249	8,153	0	0	8,058	0	0	0	0	0	0	95
Loyola Marymount U.	250	8,148	58	470	497	57	165	196	858	67	207	5,573
California State U., East Bay	251	7,470	264	111	709	245	678	339	1,842	29	132	3,121
Bryn Mawr C.	252	7,285	201	137	501	471	766	314	1,499	0	0	3,396
CUNY, Hunter C.	253	7,156	202	136	2,251	22	575	2,116	1,151	0	0	703
SUNY, C. of Environmental Science and Forestry	254	7,152	61	192	5,988	0	87	423	9	0	329	63
Creighton U.	255	7,115	211	0	5,269	53	359	77	444	0	0	702
U. North Florida	256	7,084	95	2	908	12	219	48	232	0	1,317	4,251
Western Michigan U. and Homer Stryker M.D. School of Medicine	257	7,033	19	281	3,608	9	251	75	28	52	1,776	934
Sam Houston State U.	258	6,985	26	39	1,332	23	100	487	1,515	0	33	3,430
U. Denver	259	6,869	0	21	1,164	2	1,292	1,420	71	0	628	2,271
Western Washington U.	260	6,665	36	1,715	439	148	721	377	605	615	156	1,853
U. North Texas, Health Science Center	261	6,615	0	0	6,615	0	0	0	0	0	0	0
Brigham Young U., Provo	262	6,514	11	153	2,070	12	803	89	122	0	1,268	1,986
Florida Institute of Technology	263	6,485	1,163	643	296	154	941	960	0	71	2,083	174
U. Puerto Rico, Medical Sciences Campus	264	6,320	0	0	6,320	0	0	0	0	0	0	0
Texas Tech U., Health Sciences Center, El Paso	265	6,064	0	0	5,545	0	0	0	0	0	0	519
Tennessee State U.	266	5,986	8	0	5,180	6	267	2	0	0	304	219
Edward Via C. of Osteopathic Medicine	267	5,879	0	0	5,879	0	0	0	0	0	0	0
Roseman U. of Health Sciences	268	5,775	0	0	5,775	0	0	0	0	0	0	0
Catholic U. of America	269	5,753	50	0	385	0	683	169	108	0	996	3,362
Clarkson U.	270	5,725	37	0	313	109	1,569	73	30	0	3,208	386
Rutgers, State U. New Jersey, Newark	271	5,723	29	286	2,584	0	635	288	265	43	0	1,593

TABLE 28

## Higher education R&amp;D expenditures funded by institutional funds, ranked by all R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
William Paterson U.	272	5,678	56	178	784	68	45	392	958	0	0	3,197
U. Missouri, Saint Louis	273	5,549	29	0	1,996	36	1,282	186	568	304	0	1,148
Stevens Institute of Technology	274	5,491	880	0	0	0	423	0	0	0	4,159	29
SUNY, Downstate Health Sciences U.	275	5,397	0	0	5,397	0	0	0	0	0	0	0
California State U., Sacramento	276	5,344	42	31	575	81	108	268	1,834	290	626	1,489
U. Tennessee, Chattanooga	277	5,296	10	0	92	20	4	22	13	3,235	261	1,639
Oklahoma State U., Center for Health Sciences	278	5,241	99	0	4,845	0	0	222	0	0	69	6
Ball State U.	279	5,153	404	0	1,142	9	350	89	1,090	0	0	2,069
U. Puerto Rico, Mayaguez	280	5,148	0	0	0	0	238	0	30	0	3,224	1,656
Wright State U.	281	4,999	696	37	3,044	23	167	140	0	67	765	60
East Tennessee State U.	282	4,902	1 i	7 i	3,676 i	13 i	64 i	812 i	12 i	0 i	37 i	280 i
Azusa Pacific U.	283	4,893	73	0	980	125	196	561	113	0	5	2,840
Portland State U.	284	4,722	86	268	1,031	5	261	52	849	243	756	1,171
Eastern Michigan U.	285	4,618	30	44	1,070	96	79	131	717	6	318	2,127
Texas A&M U.-Corpus Christi	286	4,589	54	1,580	804	3	82	0	50	336	372	1,308
Des Moines U.	287	4,247 i	0 i	182 i	3,132 i	0 i	0 i	0 i	374 i	0 i	0 i	559 i
Southern Connecticut State U.	288	4,245	130	54	462	187	186	245	400	27	0	2,554
U. Akron	289	4,217	0	3	463	30	1,401	77	30	0	1,796	417
U. San Diego	290	4,203	42	125	72	162	326	131	24	37	278	3,006
U. Oklahoma, Tulsa	291	4,182	0	0	1,626	0	0	0	4	0	431	2,121
Delaware State U.	292	4,094	155	130	2,639	0	359	811	0	0	0	0
Western Kentucky U.	293	4,035	0	729	1,088	5	470	478	108	0	352	805
Hofstra U.	294	4,023	1	3	563	84	139	109	953	0	48	2,123
U.S. Military Academy	295	3,980	427	0	0	771	0	387	1,983	0	0	412
Idaho State U.	296	3,937	65	158	1,191	2	712	0	32	320	1,417	40
South Dakota State U.	297	3,929	1	20	2,645	37	188	95	63	0	734	146
California State U., Fullerton	298	3,904	52	39	354	60	237	110	258	151	131	2,512
Florida A&M U.	299	3,886	0	134	2,333	0	2	0	5	0	254	1,158

TABLE 28

**Higher education R&D expenditures funded by institutional funds, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Humboldt State U.	300	3,818	21	283	1,364	5	67	3	358	69	1,540	108
U. Central Oklahoma	301	3,761	0	0	67	29	39	0	0	0	0	3,626
U. Alaska, Anchorage	302	3,747	53	804	1,211	0	115	8	760	44	493	259
Louisiana State U., Health Sciences Center, New Orleans	303	3,743	0	0	3,743	0	0	0	0	0	0	0
Indiana U. Pennsylvania	304	3,718	131	1	300	4	1	404	216	0	0	2,661
Colorado School of Mines	305	3,657	1	456	21	37	363	0	12	0	2,720	47
Clark U.	306	3,633	19	275	695	0	632	173	1,735	0	0	104
Morehouse School of Medicine	307	3,622	0	0	3,622	0	0	0	0	0	0	0
Texas A&M U.-Kingsville	308	3,614	0	0	2,390	0	24	3	0	0	733	464
Desert Research Institute	309	3,572	0	2,798	774	0	0	0	0	0	0	0
Salisbury U.	310	3,567	118	303	867	123	292	11	133	0	3	1,717
Claremont McKenna C.	311	3,548	0	0	0	0	0	6	3,234	29	0	279
U. Texas Health Science Center, Tyler	312	3,545	0	0	3,545	0	0	0	0	0	0	0
West Chester U. Pennsylvania	313	3,540	21	55	445	76	299	178	467	140	0	1,859
Clark Atlanta U.	314	3,435	10	0	3,083	11	209	0	0	0	25	97
Prairie View A&M U.	315	3,421	0	0	1,262	0	505	9	0	13	1,448	184
Grand Valley State U.	316	3,398	25	1,990	458	15	70	23	370	0	33	414
Grinnell C.	317	3,379	113	0	387	45	540	16	632	0	0	1,646
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	318	3,337	0	0	3,337	0	0	0	0	0	0	0
Albany Medical C.	319	3,324	0	0	3,324	0	0	0	0	0	0	0
Rosalind Franklin U. of Medicine and Science	320	3,219	0	0	3,208	0	0	11	0	0	0	0
Northeast Ohio Medical U.	321	3,182	0	2	3,175	0	0	0	3	2	0	0
U. Nebraska, Omaha	322	3,125	346	8	283	32	7	21	844	509	240	835
Gallaudet U.	323	3,049	528	0	555	0	0	1,353	613	0	0	0
Tennessee Technological U.	324	3,008	533	2	731	0	207	80	36	0	1,012	407

TABLE 28

## Higher education R&amp;D expenditures funded by institutional funds, ranked by all R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Wesleyan U.	325	3,004	0	128	724	75	554	220	102	0	0	1,201
Yeshiva U.	326	2,843	0	0	1,474	0	0	0	0	0	0	1,369
Philadelphia C. of Osteopathic Medicine	327	2,837	0	0	2,837	0	0	0	0	0	0	0
Charles R. Drew U. of Medicine and Science	328	2,834	0	0	2,834	0	0	0	0	0	0	0
U. Michigan, Dearborn	329	2,794	61	0	0	41	163	27	62	0	2,142	298
Duquesne U.	330	2,788	0	134	1,611	22	161	49	12	0	27	772
Kean U.	331	2,783	9	0	38	0	18	16	0	0	0	2,702
Reed C.	332	2,782	6	0	326	60	612	317	363	0	0	1,098
New School	333	2,762	2	17	18	51	0	112	886	0	428	1,248
Montana Technological U.	334	2,739	0	1,564	90	0	83	0	0	0	1,002	0
Tuskegee U.	335	2,724	0	0	1,203	0	0	0	121	85	1,315	0
Rowan U.	336	2,700	0	0	898	0	0	0	0	0	1,802	0
Texas Southern U.	337	2,692	30	0	1,360	0	28	0	845	0	0	429
California State U., San Bernardino	338	2,652	46	0	265	89	102	472	96	357	303	922
Langston U.	339	2,645	0	0	2,580	0	2	0	0	0	0	63
Virginia State U.	340	2,602	0	0	1,652	0	0	0	0	0	950	0
CUNY, John Jay C. of Criminal Justice	341	2,521	6	0	0	0	0	108	47	48	0	2,312
U. Arkansas, Pine Bluff	342	2,502	0	0	1,553	1	265	0	0	683	0	0
Ponce Health Sciences U.	343	2,472	0	0	2,472	0	0	0	0	0	0	0
U. Tulsa	344	2,454	382	26	286	3	195	244	103	0	904	311
Eastern Virginia Medical School	345	2,384	0	0	2,384	0	0	0	0	0	0	0
Texas A&M U.-Commerce	346	2,300	8	0	277	6	135	161	96	0	20	1,597
U. Dayton	347	2,288	63	4	1	3	8	9	15	0	1,927	258
California State U., Fresno	348	2,278	0	0	2,041	0	0	0	0	199	38	0
California State U., Bakersfield	349	2,160	0	83	112	493	140	207	100	0	40	985
U. North Carolina, Wilmington	350	2,150	35	246	851	7	4	2	185	338	150	332
Appalachian State U.	351	2,106	33	111	834	17	415	161	75	0	0	460

TABLE 28

**Higher education R&D expenditures funded by institutional funds, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Alcorn State U.	352	2,103	0	0	985	0	0	0	1,115	0	3	0
Touro U.	353	2,091	0	0	2,079	0	0	0	0	0	0	12
Illinois Institute of Technology	354	2,080	199	7	175	58	222	0	0	0	1,393	26
New York Institute of Technology	355	2,069	47	0	1,972	0	0	0	0	0	50	0
U. New England	356	2,022	0	431	1,565	1	19	1	0	0	0	5
Carleton C.	357	1,948	28	120	384	156	259	8	470	0	0	523
South Dakota School of Mines and Technology	358	1,944	15	0	0	0	263	0	0	0	1,666	0
CUNY, Advanced Science Research Center	359	1,943	27	95	515	0	642	0	0	0	661	3
Loma Linda U.	360	1,932	0	0	1,873	0	0	2	0	0	0	57
Amherst C.	361	1,895	108 i	186 i	529 i	122 i	245 i	87 i	268 i	0 i	0 i	350 i
Elon U.	362	1,883	41	0	247	76	59	78	243	21	16	1,102
Marymount U.	363	1,779	356	0	445	0	88	89	356	0	0	445
CUNY, Queens C.	364	1,776	41	110	580	22	313	126	181	102	0	301
Central State U.	365	1,720	0	0	1,716	0	0	0	0	4	0	0
New Mexico Institute of Mining and Technology	366	1,654	52	0	0	0	0	0	0	0	1,602	0
Williams C.	367	1,625 i	22 i	42 i	122 i	74 i	420 i	36 i	328 i	0 i	0 i	581 i
Franklin and Marshall C.	368	1,622	70	17	146	3	174	54	125	4	0	1,029
California State U., Monterey Bay	369	1,610	80	789	703	0	0	0	6	25	0	7
Towson U.	370	1,608	114	0	436	97	402	51	145	0	0	363
Toyota Technological Institute, Chicago	371	1,602	1,602	0	0	0	0	0	0	0	0	0
Swarthmore C.	372	1,571	12	0	231	34	171	57	137	30	120	779
California State U., Los Angeles	373	1,561	0	0	104	0	1,027	22	119	0	209	80
West Texas A&M U.	374	1,554	0	0	606	1	0	0	0	84	285	578
Purdue U., Northwest	375	1,536	24	0	393	0	8	6	1	14	448	642
Eastern Connecticut State U.	376	1,529	248	134	102	87	5	28	3	127	0	795
Colgate U.	377	1,515	34	91	137	10	447	63	284	0	0	449

TABLE 28

**Higher education R&D expenditures funded by institutional funds, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Pacific U.	378	1,480	0	0	1,066	43	60	0	186	0	0	125
California State Polytechnic U., Pomona	379	1,469	13	12	1,189	0	0	0	0	73	178	4
U. Guam	380	1,465	0	46	1,385	0	0	0	34	0	0	0
Hope C.	381	1,463	0	37	46	7	501	0	475	0	8	389
C. Charleston	382	1,458	35	179	227	59	121	36	40	199	0	562
Pepperdine U.	383	1,444	0	0	282	26	103	110	230	112	0	581
Bucknell U.	384	1,439	32	10	177	6	132	61	51	287	502	181
Jackson State U.	385	1,426	72	0	205	4	590	0	1	124	264	166
Rutgers, State U. New Jersey, Camden	386	1,423	118	0	13	50	29	0	322	0	0	891
Embry-Riddle Aeronautical U.	387	1,365	134	308	0	15	47	0	38	0	728	95
Lewis and Clark C.	388	1,319	0	1	5	18	6	26	4	0	0	1,259
U. Wisconsin-Stevens Point	389	1,289	0	80	1,065	0	20	0	7	0	109	8
U. Central Arkansas	390	1,281	112	19	123	18	124	26	0	0	0	859
Claremont Graduate U.	391	1,275	5	0	0	0	0	0	1,248	0	0	22
Dillard U.	392	1,271	0	0	892	0	0	0	0	0	0	379
Suffolk U.	393	1,261	0	0	0	0	0	0	0	0	0	1,261
U. Hawaii, Hilo	394	1,260	3	37	852	242	2	0	17	99	0	8
Furman U.	395	1,259	53	13	17	0	531	13	3	0	0	629
CUNY, Brooklyn C.	396	1,242	17	186	216	3	15	335	63	18	16	373
Fayetteville State U.	397	1,238	0	0	661	0	0	0	0	0	0	577
U. of St. Thomas (MN)	398	1,213	0	0	16	0	42	96	0	0	769	290
CUNY, Graduate School of Public Health and Health Policy	399	1,206	0	0	1,206	0	0	0	0	0	0	0
U. of the Sciences Philadelphia	400	1,170	0	0	1,016	0	154	0	0	0	0	0
Pennsylvania State U., Behrend	401	1,157	0	507	108	0	0	68	5	0	469	0
Minnesota State U., Mankato	402	1,147	0	5	10	0	3	208	0	240	549	132
Pomona C.	403	1,140	154	142	80	24	58	163	251	0	0	268
Saint John's U.	404	1,125	20	0	470	13	108	37	125	0	0	352



TABLE 28

## Higher education R&amp;D expenditures funded by institutional funds, ranked by all R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
DePaul U.	405	1,120	118	30	135	0	5	149	33	22	0	628
Smith C.	406	1,118	14	167	311	9	138	62	70	0	79	268
California State U., Long Beach	407	1,113	5	6	224	0	80	20	46	194	269	269
U. Nebraska, Kearney	408	1,081	43	0	684	0	128	20	9	0	0	197
California State U., Northridge	409	1,051	0	13	108	7	633	3	0	19	22	246
U. Central del Caribe	410	1,050	0	0	1,050	0	0	0	0	0	0	0
St. Edward's U.	411	1,030	450	10	35	45	25	10	30	0	0	425
C. of Saint Benedict	412	1,018	17	0	426	12	98	34	113	0	0	318
Murray State U.	413	982	0	104	846	3	28	0	0	0	0	1
Texas A&M International U.	414	965	0	9	63	27	39	8	243	272	41	263
Albany C. of Pharmacy and Health Sciences	415	963	0	0	963	0	0	0	0	0	0	0
U. Northern Colorado	416	945	0	22	431	44	48	26	104	0	0	270
Christopher Newport U.	417	919	0	0	409	8	61	11	171	0	0	259
Texas Woman's U.	418	893	0	0	556	1	0	134	22	0	0	180
West Virginia State U.	419	877	0	0	750	0	0	0	0	0	0	127
Saint Joseph's U.	420	872	31	0	158	8	93	69	50	0	0	463
Austin Peay State U.	421	859	1	3	609	1	0	0	0	16	0	229
U. Illinois, Springfield	422	839	0	0	2	0	5	0	678	0	0	154
Albion C.	423	838	1	82	94	30	146	44	171	11	0	259
Hamilton C.	424	827	4	1	36	10	185	69	215	0	0	307
Pace U.	425	819	22	0	344	0	73	7	5	0	80	288
Purdue U., Fort Wayne	426	818	0	0	84	2	9	110	30	51	105	427
U. Washington, Bothell	427	814	0	0	33	0	0	0	0	0	0	781
Trinity U.	428	812	36	48	101	3	239	56	121	0	22	186
U. Wisconsin-La Crosse	429	807	0	13	92	0	21	6	558	13	0	104
U. Colorado Denver <sup>d</sup>	430	804	7	5	289	0	1	49	7	0	56	390
West Virginia School of Osteopathic Medicine	431	801	0	0	796	0	0	0	0	0	0	5
Grambling State U.	432	798	0	0	0	0	333	0	0	0	0	465
New York Medical C.	433	794	0	0	794	0	0	0	0	0	0	0

TABLE 28

## Higher education R&amp;D expenditures funded by institutional funds, ranked by all R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Connecticut C.	434	785	103	0	143	0	174	102	263	0	0	0
U. of the Incarnate Word	434	785	0	0	698	0	0	0	0	0	0	87
SUNY, Geneseo	436	780	0	97	37	3	309	107	92	0	0	135
Northern Kentucky U.	437	774	25	0	236	6	212	145	88	0	0	62
Davidson C.	438	771	0	0	205	73	182	87	123	0	0	101
Northern Michigan U.	439	769	0	0	473	0	5	19	38	0	0	234
Willamette U.	440	761	0	52	99	10	76	3	4	51	0	466
U. of Health Sciences and Pharmacy in St. Louis	441	759	0	0	759	0	0	0	0	0	0	0
Missouri State U.	442	735	27	31	373	0	71	4	65	0	152	12
Seton Hall U.	443	730	0	0	0	0	0	0	0	0	0	730
St. Cloud State U.	444	725	50	17	92	0	13	0	141	2	9	401
Arkansas State U., Jonesboro	445	721	6	0	490	2	37	20	81	28	45	12
Barnard C.	446	718	45	8	53	10	40	69	136	0	0	357
U. Virginia's C. Wise	446	718	0	0	5	0	2	0	0	0	0	711
Xavier U. Louisiana	448	702	0	0	702	0	0	0	0	0	0	0
Keck Graduate Institute	449	697	0	0	546	0	0	0	0	0	78	73
Harvey Mudd C.	450	695	95	0	33	59	190	0	0	63	227	28
U. North Georgia	451	693	0	0	79	0	0	0	0	0	0	614
C. Wooster	452	683	97	32	152	43	94	33	14	0	0	218
California State U., Dominguez Hills	453	670	73	8	79	45	101	68	64	0	0	232
Marshall B. Ketchum U.	454	668	0	0	668	0	0	0	0	0	0	0
Southeastern Louisiana U.	455	663	0	0	201	0	53	0	3	0	5	401
Liberty U.	456	657	0	0	384	0	0	0	0	0	58	215
Western Carolina U.	457	655	0	62	348	0	21	0	55	0	52	117
U. Northern Iowa	458	654	10	151	80	1	40	0	350	0	0	22
U. Detroit Mercy	459	649	0	0	387	153	6	11	0	0	38	54
U. Texas, Tyler	459	649	8	0	161	0	0	208	9	0	137	126
U. Ana G. Mendez, Gurabo	461	648	0	0	63	14	113	39	0	0	367	52
Winthrop U.	462	632	0	0	138	6	59	1	156	0	0	272
Haverford C.	463	631	11	30	250	7	57	20	68	0	0	188

TABLE 28

**Higher education R&D expenditures funded by institutional funds, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Mercyhurst U.	464	608 i	18 i	10 i	442 i	5 i	30 i	6 i	37 i	0 i	0 i	60 i
Florida Polytechnic U.	465	606	81	0	0	0	42	0	69	0	371	43
Kettering U.	466	586	5	0	8	2	15	0	0	0	29	527
Colorado C.	467	575	0	18	88	18	113	23	93	0	0	222
Stockton U.	468	572	0	469	0	0	0	0	103	0	0	0
Macalester C.	469	568	70	12	73	0	83	23	160	0	0	147
Babson C.	470	566	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	566 i
Meharry Medical C.	471	565	0	0	565	0	0	0	0	0	0	0
Stephen F. Austin State U.	472	543	7	16	195	16	13	2	128	0	0	166
California State U., Channel Islands	473	542	22	0	238	80	42	4	22	95	0	39
U. Puerto Rico, Cayey	474	539	0	0	247	0	0	0	3	289	0	0
CUNY, Baruch C.	475	531	0	8	28	8	3	52	235	0	0	197
Pennsylvania State U., Harrisburg	476	525	0	0	2	0	0	371	75	0	53	24
U. Texas of the Permian Basin	477	522	0	0	17	0	0	0	0	57	0	448
St. Olaf C.	478	520	29	58	163	4	77	46	64	0	0	79
California State U., Chico	479	505	0	12	349	6	6	0	40	0	69	23
U. Minnesota, Morris	480	502	59	40	31	0	51	0	8	0	0	313
Palmer C. of Chiropractic, Davenport	481	500	0	0	500	0	0	0	0	0	0	0
U. Wisconsin-Superior	482	490	0	0	327	0	0	0	0	0	163	0
U. of Mary Washington	483	480	19	12	36	1	23	0	9	0	0	380
Franklin W. Olin C. of Engineering	484	478	0	0	0	0	0	0	0	0	176	302
U. San Francisco	485	466	16	13	104	1	38	28	56	9	3	198
Roger Williams U.	486	460	0	230	157	0	2	5	0	0	5	61
Vassar C.	487	455	1	17	150	2	37	31	109	0	0	108
U. Wisconsin-Green Bay	488	454	10 i	15 i	262 i	4 i	21 i	6 i	20 i	0 i	73 i	43 i
Alfred U.	489	449	0	0	0	0	0	0	0	0	449	0
Alabama A&M U.	490	447 i	10 i	0 i	270 i	4 i	21 i	6 i	20 i	0 i	73 i	43 i
Andrews U.	491	441	0	0	7	0	0	0	429	0	0	5

TABLE 28

**Higher education R&D expenditures funded by institutional funds, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Bowdoin C.	492	440	7	3	260	4	29	2	16	0	0	119
U. North Carolina, Asheville	492	440	0	29	190	0	20	0	0	0	0	201
SUNY, Oswego	494	439	18	13	14	3	58	0	41	247	14	31
SUNY, C. of Optometry	495	437	0	0	437	0	0	0	0	0	0	0
Colby C.	496	427	3	10	128	2	48	10	99	0	0	127
Indiana U., South Bend	497	423	3	0	55	0	15	66	5	170	0	109
CUNY, Lehman C.	498	419	5	0	13	12	17	0	35	0	0	337
Lafayette C.	499	417	30	5	36	11	48	18	74	0	92	103
Rhode Island School of Design	500	416	i 0	i 0	i 0	i 0	i 0	i 0	i 109	i 0	i 0	i 307
U. Wisconsin-Oshkosh	501	415	0	12	47	0	37	41	75	0	23	180
Trinity C., Hartford	502	409	9	0	192	10	14	14	74	0	44	52
Manhattan C.	503	406	0	0	49	0	0	0	0	0	195	162
Saginaw Valley State U.	504	394	i 4	i 27	i 107	i 1	i 10	i 8	i 68	i 9	i 127	i 33
Coastal Carolina U.	505	391	0	150	119	0	10	7	0	7	0	98
Hobart and William Smith Colleges	505	391	0	0	296	1	16	7	18	0	0	53
Central Connecticut State U.	507	390	33	5	45	25	32	7	67	0	29	147
Morgan State U.	508	389	1	0	129	0	15	9	14	0	193	28
Dakota State U.	509	376	323	0	0	0	10	0	0	0	0	43
Southern U. and A&M C., Baton Rouge	510	374	0	0	2	0	273	0	1	0	56	42
Fort Valley State U.	511	371	0	64	307	0	0	0	0	0	0	0
U. Richmond	512	370	0	1	95	4	66	30	9	0	0	165
U. Michigan, Flint	513	367	16	0	62	0	12	5	3	0	34	235
U. Hartford	514	361	0	0	0	0	0	0	0	0	361	0
SUNY, C. Plattsburgh	515	358	0	315	0	0	30	0	0	0	0	13
Fairfield U.	516	354	10	0	28	8	18	6	59	0	50	175
Eastern Kentucky U.	517	351	0	8	132	0	15	13	10	82	2	89
Central Washington U.	518	346	25	137	74	13	54	0	11	0	22	10
Union C., Schenectady	519	340	2	53	43	5	35	17	27	0	115	43
U. Colorado Colorado Springs	520	338	41	14	14	0	45	3	9	19	52	141

TABLE 28

**Higher education R&D expenditures funded by institutional funds, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
C. New Jersey	521	327	3	0	198	0	46	10	1	1	47	21
Wheaton C., Wheaton	521	327	6	5	39	15	90	30	106	0	0	36
U. Wisconsin-Eau Claire	523	308	0	61	129	0	17	29	48	0	0	24
Heidelberg U.	524	303	0	303	0	0	0	0	0	0	0	0
Biola U.	525	302	8	0	197	2	14	3	18	2	29	29
U. Southern Maine	526	301	2	0	29	0	13	0	184	0	73	0
Northwestern State U. Louisiana	527	291	53	0	0	0	0	0	169	0	0	69
Spelman C.	528	279	0	0	0	0	0	0	0	0	0	279
Youngstown State U.	529	278	0	0	8	3	4	1	0	0	258	4
CUNY, C. Staten Island	530	277	0	0	84	74	29	18	16	0	21	35
Albizu U.	531	272	0	0	0	0	0	272	0	0	0	0
SUNY, C. Brockport	532	268	0	77	162	1	22	0	4	0	2	0
California State U., San Marcos	533	267	0	8	0	0	0	0	115	84	2	58
Sonoma State U.	534	261	12	50	55	5	22	5	37	5	1	69
U. Massachusetts, central office	535	256	0	0	11	0	0	0	80	13	0	152
St. John's U., New York	536	254	11	0	155	0	40	22	0	0	0	26
Skidmore C.	537	245	14	19	44	0	66	7	29	0	0	66
Sacred Heart U.	538	244	0	0	10	0	0	0	0	8	0	226
U. Washington, Tacoma	539	234	7	159	5	0	0	0	12	0	0	51
Ithaca C.	540	224	0	30	30	0	91	0	9	0	0	64
U. Houston-Downtown	541	215	19	0	23	2	36	0	16	5	0	114
U. Hawaii, system office	542	213	14	199	0	0	0	0	0	0	0	0
SUNY, Buffalo State	543	210	0	22	153	0	0	0	32	0	0	3
U. New Haven	544	209	4	3	62	0	1	0	60	0	66	13
Colorado State U., Pueblo	545	201	0	0	108	0	8	0	4	0	5	76
Mount Holyoke C.	546	200	2	0	12	5	97	10	6	0	0	68
U.S. Air Force Academy	546	200	0	0	0	0	0	0	0	0	200	0
Abilene Christian U.	548	199	0	0	39	0	13	21	11	0	0	115
National U. of Natural Medicine	549	195	0	0	195	0	0	0	0	0	0	0

TABLE 28

## Higher education R&amp;D expenditures funded by institutional funds, ranked by all R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Niagara U.	550	194	0	0	32	5	35	0	41	0	0	81
U. Wisconsin-Platteville	550	194	i 3	i 0	i 92	i 2	i 11	i 3	i 18	i 2	i 24	i 39
Bates C.	552	188	0	6	17	0	45	17	36	49	0	18
Fort Hays State U.	553	185	0	11	34	0	78	0	11	0	0	51
U. Puerto Rico, Humacao	554	184	0	0	0	0	184	0	0	0	0	0
Citadel Military C. South Carolina	555	174	10	0	31	8	69	1	6	0	28	21
U.S. Naval Academy	556	169	4	0	0	20	104	0	0	0	41	0
CUNY, York C.	557	168	0	71	29	12	6	0	0	0	11	39
Oberlin C.	558	160	32	2	11	0	78	4	17	0	0	16
Drake U.	559	157	1	0	111	1	21	0	6	0	0	17
Northland C.	559	157	i 0	i 8	i 71	i 2	i 0	i 6	i 18	i 0	i 0	i 52
U. South Carolina, Aiken	561	154	0	0	99	3	5	3	0	0	0	44
Hampton U.	562	152	0	0	0	0	0	0	0	0	0	152
New England C. of Optometry	563	149	0	0	149	0	0	0	0	0	0	0
La Sierra U.	564	137	0	0	5	0	1	0	0	0	0	131
Indiana State U.	565	135	0	1	62	0	3	0	0	0	1	68
CUNY, New York City C. of Technology	566	129	6	0	51	19	12	0	6	0	10	25
Seattle U.	566	129	0	0	3	0	3	5	37	0	18	63
Doane U.	568	127	i 8	i 0	i 67	i 0	i 47	i 0	i 0	i 0	i 0	i 5
Fort Lewis C.	569	124	0	18	46	0	34	0	0	0	22	4
Providence C.	569	124	0	0	100	0	9	0	6	0	0	9
Western U. of Health Sciences	569	124	0	0	124	0	0	0	0	0	0	0
Sul Ross State U.	572	123	i 0	i 2	i 86	i 1	i 0	i 0	i 34	i 0	i 0	i 0
California State U., Stanislaus	573	112	0	13	12	0	24	24	10	0	0	29
CUNY, system office	574	105	7	0	0	0	0	0	0	55	43	0
Dordt U.	575	88	0	0	44	10	11	0	1	0	16	6
CUNY, Graduate Center	576	87	0	0	14	0	0	19	21	0	6	27
Western Illinois U.	577	86	0	0	50	0	5	0	31	0	0	0



i = imputed.

nec = not elsewhere classified; S&E = science and engineering.

<sup>a</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

<sup>b</sup> The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

<sup>c</sup> Johns Hopkins University includes the Applied Physics Laboratory, with \$58,084 thousand in institutionally financed R&D expenditures in FY 2021.

<sup>d</sup> The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

**Note(s):**

Institutions reporting zero expenditures in ranked total for FY 2021 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2021.



TABLE 29

**Higher education R&D expenditures funded by businesses, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
All institutions	-	5,115,480	150,733	76,015	3,445,313	12,149	171,349	12,198	44,268	31,166	1,042,309	129,980
U. Texas M. D. Anderson Cancer Center	1	211,849	0	0	210,555	186	900	8	200	0	0	0
U. Pennsylvania	2	190,755	686	0	186,465	0	1,276	312	344	0	1,519	153
Duke U.	3	187,864	0	178	181,815	159	313	0	385	0	2,444	2,570
Massachusetts Institute of Technology	4	177,759	28,094	1,953	11,074	922	29,966	0	3,681	10,286	66,314	25,469
SUNY, Polytechnic Institute	5	150,915	0	0	28	0	0	0	0	0	150,887	0
Ohio State U.	6	129,914	2,691	65	90,962	8	506	0	714	344	33,774	850
U. California, San Francisco	7	128,370	0	0	124,344	0	4,026	0	0	0	0	0
Stanford U.	8	113,691	4,931	742	83,922	219	4,627	121	821	0	18,308	0
Washington U., Saint Louis	9	105,176	45	0	103,412	0	50	16	0	0	55	1,598
Johns Hopkins U. <sup>a</sup>	10	103,162	233	431	91,319	160	927	0	59	202	9,520	311
U. Michigan, Ann Arbor	11	91,117	258	28	58,988	82	2,063	1	986	0	27,896	815
U. California, Los Angeles	12	87,959	1,374	651	73,270	298	2,248	143	413	186	7,451	1,925
Wichita State U.	13	86,621	0	0	7,259	0	79	0	0	0	76,128	3,155
U. California, San Diego	14	85,003	403	10,201	62,858	29	1,297	666	748	218	8,333	250
Vanderbilt U. and Vanderbilt U. Medical Center	15	81,360	237	84	76,915	0	294	46	261	0	2,645	878
Yale U.	16	76,784	365	0	73,928	0	495	0	409	0	662	925
U. California, Berkeley	17	71,696	1,373	204	15,014	174	9,191	537	2,633	7,727	33,159	1,684
Columbia U. in the City of New York	18	71,239	1,319	1,044	65,894	0	248	88	428	0	1,912	306
U. Texas, Austin	19	68,580	1,528	9,819	12,674	466	1,261	5	582	63	31,721	10,461
U. Louisiana, Lafayette	20	67,346	6,339	717	46,812	433	268	0	0	0	7,785	4,992
Purdue U., West Lafayette	21	64,364	1,345	16	9,661	261	5,545	27	647	54	39,947	6,861
U. Southern California	22	61,867	1,432	0	53,965	0	1,794	16	1,965	0	2,435	260
U. Alabama, Birmingham	23	61,764	0	76	58,335	0	2,714	0	0	0	608	31
Icahn School of Medicine at Mount Sinai	24	59,235	0	0	59,235	0	0	0	0	0	0	0
Emory U.	25	58,517	278	0	58,053	0	144	0	0	0	0	42
U. California, Davis	26	56,160	808	670	42,561	190	2,102	0	524	0	8,547	758
Georgia Institute of Technology	27	56,015	7,984	171	1,536	0	953	124	1,185	0	43,635	427
Harvard U.	28	55,357	2,037	2,171	39,861	61	5,704	0	803	152	3,449	1,119
Northwestern U.	29	54,888	1,143	0	46,675	0	716	0	394	1,383	3,594	983

TABLE 29

**Higher education R&D expenditures funded by businesses, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Washington, Seattle	30	54,751	1,160	325	44,883	0	566	40	18	0	7,653	106
New York U.	31	51,800	1,113	0	44,954	1,991	313	255	71	0	2,476	627
North Carolina State U.	32	49,478	595	1,164	21,331	501	644	505	911	784	19,487	3,556
U. North Carolina, Chapel Hill	33	48,938	254	42	45,585	0	1,923	65	398	0	620	51
U. Colorado Anschutz Medical Campus <sup>b</sup>	34	48,309	0	0	48,238	0	0	0	69	0	2	0
U. Minnesota, Twin Cities	35	44,460	143	0	39,244	166	827	295	745	70	2,549	421
Cornell U.	36	43,950	1,214	0	35,605	0	1,928	0	6	0	3,146	2,051
U. Illinois, Urbana-Champaign	37	41,455	12,536	163	10,900	13	2,925	331	6	32	13,526	1,023
Oregon Health and Science U.	38	40,991	0	0	40,583	0	0	0	0	0	408	0
Rutgers, State U. New Jersey, New Brunswick	39	40,861	186	430	38,452	5	347	5	1	0	1,199	236
U. California, Irvine	40	40,622	824	113	31,620	0	1,474	198	0	0	6,386	7
U. Cincinnati	41	39,228	79	0	34,973	0	124	0	26	557	3,138	331
U. Texas Southwestern Medical Center	42	38,886	0	0	38,886	0	0	0	0	0	0	0
U. Utah	43	38,783	534	666	34,726	0	472	328	33	0	1,879	145
U. Chicago	44	38,215	203	0	35,746	2	982	0	65	0	1,157	60
U. Miami	45	34,768	56	207	34,027	0	0	321	0	0	157	0
Carnegie Mellon U.	46	34,473	27,042	0	111	0	118	11	418	0	6,762	11
U. Rochester	47	34,036	30	0	30,391	0	2,217	0	0	892	506	0
Pennsylvania State U., University Park and Hershey Medical Center	48	33,787	1,228	1,021	14,432	136	1,374	222	953	0	13,385	1,036
U. Pittsburgh, Pittsburgh	49	33,240	155	45	32,067	0	0	0	5	0	934	34
Texas A&M U., College Station and Health Science Center	50	32,978	389	1,232	6,547	36	1,565	0	215	63	18,356	4,575
Virginia Polytechnic Institute and State U.	51	32,964	442	13	6,550	209	469	332	165	22	24,073	689
U. Wisconsin-Madison	52	31,502	510	500	23,793	0	1,757	30	211	1,559	3,080	62
U. Florida	53	31,394	288	30	25,011	0	912	194	6	0	4,911	42
U. Maryland <sup>c</sup>	54	30,638	791	278	24,432	0	650	0	523	276	3,532	156
Baylor C. of Medicine	55	29,465	0	0	29,465	0	0	0	0	0	0	0
Indiana U., Bloomington	56	29,077	548	92	27,497	7	781	3	37	42	21	49
U. Virginia, Charlottesville	57	28,643	242	4	22,777	0	298	234	101	36	4,699	252

TABLE 29

**Higher education R&D expenditures funded by businesses, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Kansas	58	27,517	54	174	25,318	0	161	148	14	0	1,648	0
U. Iowa	59	25,536	0	0	23,509	0	15	0	194	6	1,229	583
U. Arizona	60	24,601	38	1,052	16,976	0	1,888	106	53	0	4,298	190
Arizona State U.	61	23,580	1,648	40	2,807	30	668	388	1,304	3,167	13,036	492
Medical C. Wisconsin	62	23,118	0	0	23,118	0	0	0	0	0	0	0
Temple U.	63	22,560	0	0	21,103	0	4	5	0	0	977	471
Scripps Research Institute	64	22,399	0	0	22,399	0	0	0	0	0	0	0
Medical U. South Carolina	65	22,129	0	0	22,129	0	0	0	0	0	0	0
SUNY, U. Buffalo	66	21,474	289	1	14,565	0	97	2	0	0	6,343	177
U. California, Santa Barbara	67	20,480	785	4,568	1,197	0	4,542	101	94	0	9,193	0
Princeton U.	68	20,200	2,078	2,449	1,359	676	7,442	1	1,654	0	4,541	0
Boston U.	69	20,071	1,619	0	15,309	0	443	167	0	3	2,425	105
U. Nebraska, Lincoln	70	19,843	49	4	13,698	32	1,920	0	110	112	3,835	83
Iowa State U.	71	19,837	69	102	11,064	365	154	0	0	0	7,861	222
U. Oklahoma, Norman and Health Science Center	72	19,294	170	1,470	13,606	0	89	0	0	0	3,926	33
Thomas Jefferson U.	73	18,591	0	0	18,591	0	0	0	0	0	0	0
California Institute of Technology	74	17,193	468	564	658	0	8,404	0	0	0	7,053	46
Georgetown U.	75	16,888	0	0	16,111	0	190	0	127	0	0	460
U. Massachusetts, Medical School	76	16,669	0	0	16,669	0	0	0	0	0	0	0
Rensselaer Polytechnic Institute	77	16,432	5,103	0	0	1,365	1,778	626	0	0	7,292	268
U. Texas Health Science Center, Houston	78	16,305	0	0	16,305	0	0	0	0	0	0	0
Clemson U.	79	16,178	317	0	1,990	10	531	68	104	0	9,142	4,016
Wake Forest U.	80	15,449	0	0	13,619	0	0	0	37	0	19	1,774
Rush U.	81	15,329	0	0	15,329	0	0	0	0	0	0	0
U. South Florida <sup>d</sup>	82	14,798	26	115	13,880	0	64	47	17	0	608	41
U. Missouri, Columbia	83	14,488	124	12	12,805	0	323	0	0	0	1,155	69
U. Illinois, Chicago	84	13,998	294	0	12,449	0	0	42	86	0	889	238
U. Notre Dame	85	13,499	970	0	520	15	188	0	164	102	11,114	426
U. Arkansas for Medical Sciences	86	13,493	0	0	13,493	0	0	0	0	0	0	0
Virginia Commonwealth U.	87	12,494	18	61	11,326	0	6	0	72	0	990	21

TABLE 29

**Higher education R&D expenditures funded by businesses, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Texas Tech U.	88	12,221	120	576	3,889	193	440	611	1,241	0	2,518	2,633
Colorado State U., Fort Collins	89	11,979	70	726	7,856	60	614	0	7	267	2,377	2
Louisiana State U., Baton Rouge	90	11,492	596	687	6,838	43	222	56	186	13	2,156	695
U. Central Florida	91	11,489	2,142	340	745	124	5,311	7	299	2	2,389	130
U. Georgia	92	11,212	35	486	8,940	0	40	83	118	0	1,478	32
Michigan State U.	93	11,016	468	1	5,160	129	739	0	48	28	2,950	1,493
U. Colorado Boulder	94	10,691	494	485	719	139	1,714	0	69	4	6,835	232
U. Texas Health Science Center, San Antonio	95	10,085	0	0	10,085	0	0	0	0	0	0	0
Washington State U.	96	9,897	34	54	7,832	0	209	73	52	7	1,343	293
U. Louisville	97	9,846	0	0	8,297	0	549	0	0	5	945	50
U. Connecticut	98	9,827	353	77	4,641	336	379	351	128	0	3,437	125
Oklahoma State U., Stillwater	99	9,786	3	2	7,628	0	105	0	3	0	1,322	723
Northeastern U.	100	9,547	437	33	3,050	0	527	179	260	0	4,992	69
U. Nebraska, Medical Center	101	9,286	0	0	9,286	0	0	0	0	0	0	0
Colorado School of Mines	102	9,036	105	526	505	0	302	0	0	0	7,598	0
Tufts U.	103	8,655	0	11	5,369	197	0	0	291	260	1,928	599
U. Kentucky	104	8,529	10	197	6,993	5	83	28	0	0	1,189	24
U. Texas Medical Branch	105	8,424	0	0	8,424	0	0	0	0	0	0	0
Tulane U.	106	8,279	0	48	7,978	0	197	0	0	0	56	0
U. North Dakota	107	8,194	1	44	1	0	17	0	0	0	8,107	24
Southern Illinois U., Carbondale	108	7,901	32	0	6,808	0	31	1	7	114	908	0
U. New Hampshire	109	7,870	0	306	592	19	77	0	164	0	6,668	44
U. Houston	110	7,745	154	1,113	1,393	15	47	99	217	6	3,464	1,237
U. Massachusetts, Amherst	111	7,710	2,670	232	1,536	0	49	31	8	0	3,063	121
U. Tulsa	112	7,397	0	0	16	0	0	59	0	0	7,322	0
U. California, Santa Cruz	113	7,273	814	548	708	0	765	236	553	42	3,561	46
U. Tennessee, Knoxville	114	7,224	35	0	2,168	91	308	0	46	183	4,356	37
Rice U.	115	7,123	474	2	172	506	1,651	95	288	41	3,894	0
Michigan Technological U.	116	7,078	167	2,570	126	0	32	0	0	0	4,183	0
Utah State U.	117	6,975	0	50	2,042	36	517	26	0	0	4,304	0
U. California, Riverside	118	6,809	391	202	2,392	38	303	0	222	0	3,261	0

TABLE 29

**Higher education R&D expenditures funded by businesses, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Kansas State U.	119	6,671	40	0	5,545	0	440	1	39	0	606	0
U. Texas, Dallas	120	6,581	363	122	108	42	228	0	17	0	5,659	42
U. Arkansas, Fayetteville	121	6,561	107	250	3,166	0	122	244	227	0	1,204	1,241
Oregon State U.	122	6,517	150	0	3,001	0	1	36	0	10	3,319	0
Auburn U., Auburn	123	6,492	61	13	3,446	0	347	15	0	0	2,286	324
Syracuse U.	124	6,481	5	100	10	0	115	1	140	0	146	5,964
U. Dayton	125	6,277	348	0	0	0	59	0	0	0	5,773	97
U. Wyoming	126	6,088	281	2,078	385	0	11	0	5	12	3,302	14
U. Delaware	127	6,026	132	1,277	694	0	858	0	69	198	2,605	193
George Mason U.	128	5,910	331	57	841	55	0	34	1,589	0	230	2,773
Mercer U.	129	5,342	0	0	519	0	0	0	0	0	4,793	30
U. Texas, San Antonio	130	5,196	510	21	635	0	888	69	538	0	721	1,814
SUNY, Stony Brook U.	131	5,135	252	196	2,861	12	336	0	0	497	981	0
Brown U.	132	4,925	187	0	3,025	0	210	0	29	0	1,276	198
Dartmouth C. and Dartmouth Hitchcock Medical Center	133	4,723	369	0	3,220	0	50	0	188	0	896	0
West Virginia U.	134	4,505	21	3	3,032	0	49	23	0	0	1,377	0
East Carolina U.	135	4,387	0	1	4,261	0	59	28	0	0	38	0
SUNY, Upstate Medical U.	136	4,314	0	0	4,314	0	0	0	0	0	0	0
U. New Mexico	137	4,253	0	13	3,343	0	0	0	20	0	877	0
Wayne State U.	138	4,228	24	0	2,468	0	728	0	105	45	289	569
Albert Einstein C. of Medicine	139	4,184	0	0	4,184	0	0	0	0	0	0	0
George Washington U.	140	4,155	85	0	2,852	0	0	0	82	0	425	711
Case Western Reserve U.	141	4,035	33	0	2,105	0	276	0	0	0	1,343	278
Missouri U. of Science and Technology	142	4,007	0	0	0	0	211	0	0	0	3,796	0
New York Medical C.	143	4,002	0	0	4,002	0	0	0	0	0	0	0
Albany Medical C.	144	3,788	0	0	3,788	0	0	0	0	0	0	0
U. Tennessee, Health Science Center	145	3,708	0	0	3,708	0	0	0	0	0	0	0
Saint Louis U.	146	3,614	10	120	3,459	0	0	0	0	0	25	0
U. Maine	147	3,612	0	360	835	0	0	0	74	588	1,679	76
Brigham Young U., Provo	148	3,592	77	271	469	0	1,024	0	0	0	1,751	0
Abilene Christian U.	149	3,546	0	0	62	0	3,484	0	0	0	0	0

TABLE 29

**Higher education R&D expenditures funded by businesses, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Georgia Southern U.	150	3,482	0	43	182	0	2,987	0	29	14	92	135
U. South Alabama	151	3,466	0	1,315	1,816	0	0	0	0	0	206	129
U. Massachusetts, Lowell	152	3,444	111	43	329	0	392	0	33	0	2,533	3
Ohio U.	153	3,433	8	82	313	0	0	0	19	0	3,007	4
U. South Carolina, Columbia	154	3,409	38	0	1,120	0	0	0	32	0	2,116	103
SUNY, Binghamton U.	155	3,399	281	0	247	0	282	3	513	0	2,069	4
Loyola U., Chicago	156	3,359	0	0	3,359	0	0	0	0	0	0	0
Cold Spring Harbor Laboratory	157	3,333	0	0	3,333	0	0	0	0	0	0	0
Worcester Polytechnic Institute	158	3,296	169	0	46	5	11	0	55	0	3,010	0
Augusta U.	159	3,282	0	0	3,276	0	6	0	0	0	0	0
Mississippi State U.	160	3,257	0	423	2,292	0	251	0	14	0	262	15
Rockefeller U.	161	3,210	0	0	3,177	0	33	0	0	0	0	0
Drexel U.	162	3,196	25	0	1,536	0	0	0	90	0	1,534	11
Baylor U.	163	3,116	324	12	28	0	140	0	0	0	2,081	531
Florida State U.	164	3,033	0	939	165	0	510	35	49	11	1,216	108
U. Texas, Arlington	165	3,006	64	0	161	17	288	3	0	0	2,079	394
U. Nevada, Reno	166	2,919	106	141	1,820	0	87	62	0	0	703	0
Howard U.	167	2,860	21	0	1,382	0	0	326	251	0	683	197
Woods Hole Oceanographic Institution	168	2,804	0	2,325	0	0	0	0	0	0	479	0
Louisiana State U., Health Sciences Center, New Orleans	169	2,800	0	0	2,800	0	0	0	0	0	0	0
Florida Atlantic U.	170	2,762	70	0	2,382	4	60	0	0	0	241	5
U. Toledo	171	2,718	0	0	2,118	0	81	0	0	0	519	0
U. Puerto Rico, Medical Sciences Campus	172	2,688	0	0	2,688	0	0	0	0	0	0	0
U. Alabama, Tuscaloosa	173	2,679	0	88	231	0	103	0	658	0	963	636
U. Hawaii, Manoa	174	2,660	41	1,224	756	0	29	0	175	3	432	0
U. Mississippi	175	2,600	0	6	2,428	0	75	31	1	0	11	48
Rochester Institute of Technology	176	2,563	67	0	13	8	1,051	0	5	0	1,398	21
New Mexico State U.	177	2,562	150	14	1,059	0	229	141	0	0	964	5
U. Alaska, Fairbanks	178	2,534	20	1,679	142	0	0	0	1	22	670	0
Milwaukee School of Engineering	179	2,377	0	0	0	0	14	0	0	0	2,363	0
U. North Carolina, Charlotte	180	2,349	241	34	155	0	267	1	0	0	1,494	157

TABLE 29

**Higher education R&D expenditures funded by businesses, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Florida International U.	181	2,311	224	68	426	0	74	294	44	0	1,181	0
U. Massachusetts, Boston	182	2,222	12	0	8	0	0	88	301	0	338	1,475
California State U., Maritime Academy	183	2,102	0	0	0	0	0	0	0	0	2,102	0
U. Akron	184	2,093	0	0	228	0	538	24	0	0	1,266	37
Montana State U., Bozeman	185	2,084	0	0	1,220	0	87	0	0	0	777	0
Southern Methodist U.	186	2,072	15	303	88	0	4	0	0	0	1,496	166
U. Rhode Island	187	2,060	0	221	787	0	137	330	102	91	303	89
U. North Texas, Denton	188	1,992	175	0	702	0	674	94	0	0	320	27
U. Vermont	189	1,989	6	0	1,658	2	0	0	0	0	323	0
U. Michigan, Dearborn	190	1,911	0	0	0	0	0	0	0	0	1,911	0
U. Maryland, Baltimore County	191	1,860	872	98	36	9	639	1	0	0	205	0
Indiana U.-Purdue U., Indianapolis	192	1,855	159	0	1,165	0	109	0	54	0	368	0
U. Idaho	193	1,794	152	78	798	0	42	61	0	0	634	29
Cleveland State U.	194	1,755	0	0	1,112	0	0	0	75	0	568	0
U. Denver	195	1,740	0	0	0	0	0	0	0	0	1,740	0
Teachers C., Columbia U.	196	1,700	0	0	5	0	0	0	1,695	0	0	0
Western Michigan U. and Homer Stryker M.D. School of Medicine	197	1,697	0	0	298	0	0	31	0	0	1,368	0
U. of St. Thomas (MN)	198	1,690	0	0	0	0	29	0	0	0	1,573	88
Ponce Health Sciences U.	199	1,683	0	0	1,683	0	0	0	0	0	0	0
Texas Christian U.	200	1,670	0	0	182	0	77	0	0	0	22	1,389
U. North Texas, Health Science Center	201	1,633	0	0	1,633	0	0	0	0	0	0	0
U. Oregon	202	1,611	0	57	37	0	11	38	46	0	0	1,422
U. Wisconsin-Milwaukee	203	1,596	0	0	185	0	5	160	1,025	0	141	80
Claremont Graduate U.	204	1,518	0	0	0	0	0	0	0	0	0	1,518
North Dakota State U.	205	1,508	0	0	1,115	0	94	0	58	36	203	2
U. Massachusetts, Dartmouth	206	1,488	37	1,292	0	0	124	0	0	0	35	0
Creighton U.	207	1,478	44	0	1,095	11	74	16	93	0	0	145
Brandeis U.	208	1,418	53	0	0	0	15	0	1,228	0	108	14
Stevens Institute of Technology	209	1,403	0	0	0	0	98	0	0	0	1,305	0
South Dakota State U.	210	1,304	0	0	1,076	93	0	0	0	0	135	0
Eastern Virginia Medical School	211	1,298	0	0	1,298	0	0	0	0	0	0	0

TABLE 29

**Higher education R&D expenditures funded by businesses, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
New Jersey Institute of Technology	212	1,278	136	0	427	0	26	0	0	0	648	41
Miami U.	213	1,249	0	13	171	3	229	16	36	0	761	20
U. Southern Mississippi	214	1,239	0	381	635	0	218	0	0	0	0	5
New Mexico Institute of Mining and Technology	215	1,236	12	9	0	3	12	0	0	0	1,200	0
Philadelphia C. of Osteopathic Medicine	216	1,220	0	0	1,220	0	0	0	0	0	0	0
Embry-Riddle Aeronautical U.	217	1,195	63	103	0	0	200	0	201	0	620	8
U. of the Sciences Philadelphia	218	1,155	0	0	1,097	0	58	0	0	0	0	0
Clarkson U.	219	1,147	25	0	44	0	36	0	12	0	1,030	0
San Jose State U.	220	1,080	30	501	0	0	0	0	0	0	496	53
Illinois Institute of Technology	221	1,074	90	0	316	11	310	0	0	0	347	0
California Polytechnic State U., San Luis Obispo	222	1,053	109	0	263	0	105	0	57	0	519	0
California State U., East Bay	223	1,033	0	0	62	0	0	0	75	0	878	18
Oakland U.	224	1,023	34	0	4	0	123	0	0	0	806	56
U. Texas, El Paso	225	994	142	313	84	0	12	0	0	0	212	231
Pittsburg State U.	226	969	0	0	0	0	0	0	0	0	969	0
Marquette U.	227	947	80	0	195	0	0	17	0	0	629	26
Louisiana Tech U.	228	937	13	0	2	0	132	19	0	0	770	1
Old Dominion U.	229	918	3	13	451	0	17	10	0	0	421	3
SUNY, C. of Optometry	230	907	0	0	907	0	0	0	0	0	0	0
U. Nevada, Las Vegas	231	905	0	104	2	0	111	0	0	0	268	420
U. North Carolina, Wilmington	232	867	0	42	276	0	12	0	25	0	495	17
Portland State U.	233	847	168	0	129	0	0	0	1	0	549	0
Northern Arizona U.	234	839	15	0	335	0	0	1	0	0	446	42
West Texas A&M U.	235	832	0	12	339	0	0	0	0	0	442	39
Florida Institute of Technology	236	824	477	47	51	0	27	3	0	0	219	0
Alaska Pacific U.	237	817	0	817	0	0	0	0	0	0	0	0
U. Memphis	238	814	8	0	225	0	31	0	115	0	388	47
American U.	239	774	0	0	0	0	35	0	48	0	0	691
Texas State U.	240	765	36	28	171	0	0	0	243	110	176	1



TABLE 29

**Higher education R&D expenditures funded by businesses, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Albany C. of Pharmacy and Health Sciences	241	715	0	0	715	0	0	0	0	0	0	0
Southern U. and A&M C., Baton Rouge	242	704	0	0	0	18	18	0	0	0	41	627
Ball State U.	243	702	653	0	48	0	0	1	0	0	0	0
CUNY, City C.	244	691	6	0	2	0	55	0	0	0	628	0
U. Alabama, Huntsville	245	688	0	2	15	0	107	0	0	0	556	8
Rowan U.	246	677	55	0	53	23	51	0	0	0	495	0
Purdue U., Northwest	247	667	3	0	0	0	0	0	0	0	647	17
Air Force Institute of Technology	248	663	0	0	0	30	506	0	0	0	127	0
Catholic U. of America	249	624	0	0	9	0	456	1	0	0	73	85
Georgia State U.	250	615	66	0	293	0	0	29	142	0	0	85
U. West Florida	251	614	23	0	56	0	0	0	471	0	7	57
Langston U.	252	609	0	0	609	0	0	0	0	0	0	0
Texas A&M U.-Corpus Christi	253	603	0	199	2	0	0	0	0	0	402	0
U. Montana, Missoula	254	601	142	41	377	0	33	0	8	0	0	0
SUNY, C. of Environmental Science and Forestry	255	580	0	0	483	0	0	0	0	0	38	59
Boise State U.	256	576	0	4	28	0	102	0	0	0	432	10
Kent State U.	257	573	57	0	3	0	246	28	68	82	66	23
SUNY, U. Albany	257	573	17	315	240	0	1	0	0	0	0	0
South Dakota School of Mines and Technology	259	569	0	0	0	0	0	0	0	0	569	0
Chapman U.	260	567	0	0	446	0	0	0	68	0	4	49
Florida A&M U.	261	566	0	0	493	4	0	0	0	0	69	0
Santa Clara U.	262	558	0	0	0	0	4	0	0	0	541	13
Manhattan C.	263	556	0	0	0	0	0	0	0	0	383	173
William & Mary	264	543	59	207	80	0	56	0	54	0	0	87
Lehigh U.	265	531	0	0	2	0	53	0	0	0	458	18
San Diego State U.	266	523	0	0	160	0	32	20	0	0	301	10
Boston C.	267	522	19	0	46	0	184	0	200	0	0	73
Desert Research Institute	268	521	0	521	0	0	0	0	0	0	0	0
Rosalind Franklin U. of Medicine and Science	269	520	0	0	520	0	0	0	0	0	0	0

TABLE 29

**Higher education R&D expenditures funded by businesses, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Colorado Colorado Springs	270	518	3	0	0	0	50	0	0	108	356	1
California State U., Stanislaus	271	504	0	0	428	0	0	76	0	0	0	0
North Carolina Central U.	272	503	37	65	116	0	3	0	0	0	276	6
U. Maryland Center for Environmental Science	273	496	40	126	330	0	0	0	0	0	0	0
Pennsylvania State U., Behrend	274	494	0	0	46	8	98	0	0	0	333	9
U. Colorado Denver <sup>b</sup>	275	493	35	12	1	0	0	258	46	0	64	77
Nova Southeastern U.	276	486	0	130	290	0	0	66	0	0	0	0
U. of Health Sciences and Pharmacy in St. Louis	277	462	0	0	462	0	0	0	0	0	0	0
U. Missouri, Kansas City	278	451	0	5	326	0	0	0	0	0	120	0
Lawrence Technological U.	279	434	0	0	0	0	1	0	0	0	66	367
U. New Haven	280	418	220	0	0	0	49	0	55	0	94	0
Wright State U.	281	415	0	0	241	0	0	0	0	0	173	1
St. Cloud State U.	282	403	0	0	47	0	0	0	134	0	22	200
Montana Technological U.	283	402	0	100	109	0	0	0	0	0	193	0
Texas Tech U., Health Sciences Center, El Paso	284	395	0	0	395	0	0	0	0	0	0	0
Occidental C.	285	392	0	392	0	0	0	0	0	0	0	0
Idaho State U.	286	387	51	41	227	0	7	0	0	0	61	0
U. Minnesota, Duluth	287	381	0	0	263	0	0	0	0	0	118	0
Villanova U.	287	381	0	0	0	0	0	0	0	0	370	11
U. California, Merced	289	373	0	0	62	0	0	0	0	0	287	24
U. New Orleans	290	372	0	0	0	0	116	0	53	0	182	21
Appalachian State U.	291	365	0	22	235	0	0	21	87	0	0	0
U. Wisconsin-La Crosse	291	365	0	0	32	0	20	0	313	0	0	0
Western U. of Health Sciences	291	365	0	0	349	0	0	0	0	0	0	16
SUNY, Downstate Health Sciences U.	294	354	0	0	354	0	0	0	0	0	0	0
Texas A&M U.-Kingsville	295	353	0	0	247	0	0	0	0	0	106	0
Arkansas State U., Jonesboro	296	349	0	0	307	0	17	2	0	0	23	0
U. Alaska, Anchorage	297	348	0	95	87	0	0	0	2	0	109	55
Texas Tech U., Health Sciences Center	298	342	0	0	334	0	0	0	0	0	0	8
Marshall B. Ketchum U.	299	340	0	0	340	0	0	0	0	0	0	0

TABLE 29

**Higher education R&D expenditures funded by businesses, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
James Madison U.	300	330	0	106	0	174	6	0	0	0	14	30
Kennesaw State U.	301	318	78	0	7	47	4	26	15	0	47	94
Kettering U.	302	314	0	0	0	0	46	0	0	0	263	5
Bucknell U.	303	311	0	0	0	0	0	0	0	0	311	0
Louisiana State U., Health Sciences Center, Shreveport	304	297	0	0	297	0	0	0	0	0	0	0
Alabama State U.	305	287	0	0	0	0	0	0	0	0	287	0
Franklin and Marshall C.	306	279	0	0	0	0	0	0	0	0	0	279
U. Texas Rio Grande Valley	307	265	0	0	96	0	0	0	0	0	149	20
Naval Postgraduate School	308	264	164	0	0	0	91	0	0	0	9	0
U. Wisconsin-Platteville	308	264	i 5	i 0	i 123	i 3	i 15	i 5	i 25	i 3	i 31	i 54
Tarleton State U.	310	263	0	0	47	216	0	0	0	0	0	0
Middle Tennessee State U.	311	259	0	7	141	14	44	0	53	0	0	0
CUNY, Advanced Science Research Center	312	251	0	0	0	0	241	0	0	0	10	0
Loma Linda U.	313	241	0	0	241	0	0	0	0	0	0	0
U. Texas, Tyler	314	238	0	0	2	0	0	0	0	0	223	13
Drake U.	315	233	0	0	205	0	0	0	0	0	0	28
Toyota Technological Institute, Chicago	316	232	232	0	0	0	0	0	0	0	0	0
Marshall U.	317	226	0	0	192	0	5	0	0	0	29	0
Morgan State U.	318	225	0	0	1	0	0	0	0	0	211	13
Southern Illinois U., Edwardsville	319	221	0	2	16	0	0	0	16	0	186	1
Rhode Island School of Design	320	215	i 0	i 0	i 0	i 0	i 0	i 0	i 56	i 0	i 0	i 159
DePaul U.	321	203	18	0	0	0	0	0	0	0	0	185
U. Michigan, Flint	321	203	0	0	12	0	0	0	0	0	191	0
Dakota State U.	323	201	196	5	0	0	0	0	0	0	0	0
U. Nebraska, Omaha	323	201	172	0	2	0	0	27	0	0	0	0
St. John's U., New York	325	200	0	0	200	0	0	0	0	0	0	0
Jackson State U.	326	198	114	2	0	0	0	0	0	0	82	0
Southeastern Louisiana U.	327	197	0	0	157	0	40	0	0	0	0	0
California State U., Long Beach	328	195	0	0	3	0	19	0	45	0	127	1
Delaware State U.	328	195	0	0	85	0	0	0	0	0	110	0

TABLE 29

**Higher education R&D expenditures funded by businesses, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Pennsylvania State U., Harrisburg	330	191	0	0	175	2	0	14	0	0	0	0
California State U., Channel Islands	331	186	0	0	0	0	186	0	0	0	0	0
California State U., Fresno	331	186	0	0	150	0	0	0	0	0	36	0
U. Puerto Rico, Rio Piedras	333	181	0	0	104	30	29	0	0	2	0	16
Midwestern U.	334	178	0	0	178	0	0	0	0	0	0	0
Western Illinois U.	335	176	0	0	94	0	0	0	0	0	0	82
New England C. of Optometry	336	175	0	0	175	0	0	0	0	0	0	0
CUNY, Lehman C.	337	171	0	0	90	0	81	0	0	0	0	0
U. Hawaii, Hilo	338	166	0	0	166	0	0	0	0	0	0	0
Humboldt State U.	339	164	0	0	40	0	0	0	12	0	112	0
Babson C.	340	160	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	160 i
Northern Illinois U.	341	155	30	12	0	0	25	0	0	0	88	0
Alfred U.	342	149	0	0	0	0	0	0	0	0	149	0
CUNY, Queens C.	342	149	0	0	122	0	27	0	0	0	0	0
North Carolina Agricultural and Technical State U.	342	149	49	0	28	0	7	0	0	0	65	0
California State U., Sacramento	345	147	0	0	5	0	0	0	0	0	142	0
Duquesne U.	346	146	0	0	106	0	25	0	0	0	0	15
Lamar U.	347	145	0	0	5	0	0	0	0	0	34	106
Keck Graduate Institute	348	144 i	0 i	0 i	113 i	0 i	0 i	0 i	0 i	0 i	16 i	15 i
U. of the Virgin Islands	349	142	0	0	142	0	0	0	0	0	0	0
California State Polytechnic U., Pomona	350	141	0	0	131	0	0	0	0	0	10	0
Purdue U., Fort Wayne	350	141	0	0	90	0	0	0	0	0	51	0
U. Wisconsin-River Falls	350	141	0	0	132	0	8	0	0	0	0	1
U. Arkansas, Little Rock	353	139	59	0	0	0	80	0	0	0	0	0
Wellesley C.	354	138	5	0	133	0	0	0	0	0	0	0
Western Carolina U.	355	137	0	0	16	0	24	0	81	0	16	0
Western Washington U.	355	137	0	13	0	0	0	83	0	0	41	0
Florida Gulf Coast U.	357	136	0	22	0	0	4	7	0	0	99	4
East Tennessee State U.	358	134	0	0	134	0	0	0	0	0	0	0
Saint Joseph's U.	358	134	6	0	0	0	0	128	0	0	0	0
Missouri State U.	360	132	0	0	132	0	0	0	0	0	0	0

TABLE 29

**Higher education R&D expenditures funded by businesses, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
National U. of Natural Medicine	360	132	0	0	132	0	0	0	0	0	0	0
Fayetteville State U.	362	128	0	0	0	0	0	0	53	0	0	75
Albany State U.	363	125	0	125	0	0	0	0	0	0	0	0
Rutgers, State U. New Jersey, Camden	364	123	123	0	0	0	0	0	0	0	0	0
Murray State U.	365	120	0	0	99	0	15	0	0	0	0	6
Alabama A&M U.	366	117 i	3 i	0 i	68 i	1 i	6 i	2 i	5 i	0 i	19 i	13 i
Spelman C.	366	117	0	0	0	0	0	0	0	0	0	117
Prairie View A&M U.	368	115	0	0	1	0	0	0	0	0	114	0
Tennessee Technological U.	369	111	0	0	1	0	0	0	24	0	86	0
U. Texas Health Science Center, Tyler	369	111	0	0	111	0	0	0	0	0	0	0
Central Michigan U.	371	109	0	0	102	2	0	0	0	0	5	0
U. Houston-Clear Lake	372	107	0	0	92	0	0	15	0	0	0	0
U. North Carolina, Greensboro	373	106	0	0	19	0	56	0	12	0	0	19
CUNY, Brooklyn C.	374	105	0	93	12	0	0	0	0	0	0	0
Western Kentucky U.	374	105	0	0	14	0	0	0	0	0	91	0
Pacific U.	376	100	0	0	100	0	0	0	0	0	0	0
California State U., Fullerton	377	97	0	49	0	25	0	0	0	0	0	23
U. Missouri, Saint Louis	378	96	54	0	0	0	41	0	0	0	0	1
Seton Hall U.	379	95	0	0	0	0	0	0	0	0	0	95
Oregon Institute of Technology	380	94	3 i	7 i	64 i	2 i	0 i	2 i	0 i	0 i	16 i	0 i
Van Andel Research Institute	381	90	0	0	90	0	0	0	0	0	0	0
Christopher Newport U.	382	89	0	0	53	0	36	0	0	0	0	0
Florida Polytechnic U.	382	89	0	0	0	0	0	0	0	0	89	0
U. New England	382	89	0	0	89	0	0	0	0	0	0	0
CUNY, Hunter C.	385	85	2	0	42	0	7	1	12	0	0	21
Texas A&M International U.	385	85	0	0	3	0	0	0	0	0	0	82
Bowling Green State U.	387	84	49	0	27	0	8	0	0	0	0	0
Calvin U.	388	83 i	32 i	6 i	8 i	0 i	10 i	0 i	13 i	0 i	11 i	3 i
Fordham U.	388	83	80	0	0	0	2	0	0	0	0	1
U. of the Incarnate Word	388	83	0	0	36	0	0	0	0	0	47	0
U. Wisconsin-Eau Claire	388	83	0	3	0	53	27	0	0	0	0	0
California State U., Northridge	392	81	22	3	0	0	47	0	0	0	9	0

TABLE 29

**Higher education R&D expenditures funded by businesses, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Framingham State U.	392	81 i	0 i	0 i	78 i	0 i	3 i	0 i	0 i	0 i	0 i	0 i
Biola U.	394	80 i	2 i	0 i	50 i	1 i	4 i	1 i	4 i	1 i	8 i	9 i
Citadel Military C. South Carolina	394	80	0	0	0	0	0	0	0	0	80	0
Youngstown State U.	396	77	0	0	0	0	0	0	0	0	77	0
Colgate U.	397	75	0	0	0	0	75	0	0	0	0	0
Texas Woman's U.	397	75	0	0	75	0	0	0	0	0	0	0
Smith C.	399	74	18	0	18	0	0	0	0	0	38	0
U. Central Oklahoma	400	73 i	0 i	0 i	1 i	1 i	1 i	0 i	0 i	0 i	0 i	70 i
Kentucky State U.	401	72	0	0	72	0	0	0	0	0	0	0
U. Oklahoma, Tulsa	401	72	0	0	72	0	0	0	0	0	0	0
Eastern Michigan U.	403	71	0	0	9	0	34	0	0	0	28	0
Kean U.	404	70	69	0	0	0	0	0	0	1	0	0
California State U., Chico	405	69	0	0	31	0	0	0	0	0	38	0
Sonoma State U.	405	69	0	40	29	0	0	0	0	0	0	0
CUNY, system office	407	68	68	0	0	0	0	0	0	0	0	0
Indiana State U.	407	68	0	0	68	0	0	0	0	0	0	0
Liberty U.	407	68	0	0	68	0	0	0	0	0	0	0
U.S. Air Force Academy	407	68	0	0	0	0	50	0	0	0	18	0
Oberlin C.	411	67	0	0	0	0	0	0	9	0	0	58
Roseman U. of Health Sciences	412	65	0	0	65	0	0	0	0	0	0	0
U. Tennessee, Chattanooga	412	65	0	0	11	0	0	8	0	0	46	0
Elizabeth City State U.	414	62	0	0	1	0	0	0	0	0	0	61
Wesleyan U.	414	62	0	0	0	0	62	0	0	0	0	0
C. New Jersey	416	57	0	0	0	0	0	0	0	0	57	0
Clark Atlanta U.	416	57	47	0	0	10	0	0	0	0	0	0
Oklahoma State U., Center for Health Sciences	418	56	0	0	56	0	0	0	0	0	0	0
Central Washington U.	419	55	0	0	7	0	0	0	48	0	0	0
U. Texas of the Permian Basin	420	54	0	0	0	0	28	2	0	0	0	24
Norfolk State U.	421	52	0	0	0	0	0	0	0	0	52	0
U. Nebraska, central administration	422	50	0	0	0	0	0	0	0	0	50	0
Fort Hays State U.	423	48	0	0	0	0	30	0	0	0	0	18

TABLE 29

**Higher education R&D expenditures funded by businesses, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. North Florida	424	47	0	0	6	7	0	0	0	0	32	2
U.S. Military Academy	425	45	0	0	0	0	0	0	0	0	45	0
Tennessee State U.	426	43 i	0 i	0 i	37 i	0 i	2 i	0 i	0 i	0 i	2 i	2 i
Fort Lewis C.	427	42	0	0	7	0	15	0	0	0	20	0
SUNY, Oswego	427	42	0	0	0	0	28	2	0	0	12	0
Towson U.	427	42	0	0	27	0	0	0	15	0	0	0
Montclair State U.	430	41	0	0	41	0	0	0	0	0	0	0
CUNY, John Jay C. of Criminal Justice	431	37	0	0	0	0	0	0	0	0	0	37
U. Nebraska, Kearney	431	37	0	0	5	0	6	0	4	0	0	22
U. Puerto Rico, Mayaguez	431	37	0	0	0	0	0	0	0	0	37	0
Long Island U.	434	36	0	0	36	0	0	0	0	0	0	0
SUNY, C. Brockport	435	32	0	0	32	0	0	0	0	0	0	0
CUNY, New York City C. of Technology	436	31	0	0	0	31	0	0	0	0	0	0
Edward Via C. of Osteopathic Medicine	436	31	0	0	31	0	0	0	0	0	0	0
U. Wisconsin-Oshkosh	436	31	0	0	31	0	0	0	0	0	0	0
New School	439	30	17	0	0	0	0	0	0	0	0	13
U. North Carolina, Asheville	439	30	0	0	30	0	0	0	0	0	0	0
Sam Houston State U.	441	29	0	0	14	0	0	0	15	0	0	0
West Chester U. Pennsylvania	442	27	0	0	0	27	0	0	0	0	0	0
Sul Ross State U.	443	26 i	0 i	0 i	19 i	0 i	0 i	0 i	7 i	0 i	0 i	0 i
Illinois State U.	444	25	0	0	5	0	20	0	0	0	0	0
Monmouth U.	444	25	0	0	25	0	0	0	0	0	0	0
Troy U.	444	25	0	0	25	0	0	0	0	0	0	0
U. Wisconsin-Green Bay	444	25	1 i	1 i	16 i	0 i	1 i	0 i	0 i	0 i	4 i	2 i
Davidson C.	448	24	0	0	0	0	24	0	0	0	0	0
SUNY, Buffalo State	448	24	0	0	0	0	0	0	0	0	0	24
U. Guam	448	24	0	0	24	0	0	0	0	0	0	0
Barnard C.	451	22	0	0	22	0	0	0	0	0	0	0
Lipscomb U.	451	22	0	0	0	0	0	0	0	22	0	0
California State U., San Bernardino	453	20	0	0	3	0	0	0	17	0	0	0
Eastern Washington U.	453	20	0	1	0	0	0	0	19	0	0	0
Loyola Marymount U.	453	20	0	0	20	0	0	0	0	0	0	0

TABLE 29

## Higher education R&amp;D expenditures funded by businesses, ranked by all R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Touro U.	453	20	0	0	20	0	0	0	0	0	0	0
U. Maryland, Eastern Shore	457	19	0	0	0	0	0	0	0	0	19	0
Bryn Mawr C.	458	18	18	0	0	0	0	0	0	0	0	0
U. Wisconsin-Superior	459	16	0	0	12	0	0	0	0	0	0	4
Franklin W. Olin C. of Engineering	460	15	0	0	0	0	0	0	0	0	15	0
Furman U.	460	15	0	0	15	0	0	0	0	0	0	0
St. Edward's U.	460	15	0	0	0	0	0	0	10	0	0	5
Stephen F. Austin State U.	463	13	0	4	9	0	0	0	0	0	0	0
U. Detroit Mercy	464	12	0	0	0	0	0	0	0	0	12	0
U. Wisconsin-Stevens Point	464	12	0	0	12	0	0	0	0	0	0	0
Harvey Mudd C.	466	11	0	0	0	6	0	0	0	0	5	0
Morehead State U.	466	11	0	0	10	0	0	0	1	0	0	0
Roger Williams U.	466	11	0	11	0	0	0	0	0	0	0	0
U. of the Pacific	466	11	0	0	11	0	0	0	0	0	0	0
U. Puerto Rico, Cayey	466	11	0	0	0	0	0	0	11	0	0	0
William Paterson U.	466	11	0	0	11	0	0	0	0	0	0	0
Rutgers, State U. New Jersey, Newark	472	8	0	0	0	0	7	1	0	0	0	0
Salisbury U.	472	8	8	0	0	0	0	0	0	0	0	0
Texas A&M U.-Commerce	472	8	0	0	8	0	0	0	0	0	0	0
U. Northern Colorado	472	8	0	0	8	0	0	0	0	0	0	0
Indiana U. Pennsylvania	476	7	0	0	6	0	0	0	1	0	0	0
Union C., Schenectady	476	7	0	0	0	0	0	0	0	0	7	0
Alcorn State U.	478	6	0	0	6	0	0	0	0	0	0	0
Ithaca C.	479	5	0	0	5	0	0	0	0	0	0	0
Saginaw Valley State U.	479	5 i	1 i	0 i	2 i	0 i	0 i	1 i	0 i	0 i	1 i	0 i
Trinity U.	479	5	0	0	5	0	0	0	0	0	0	0
U. Hartford	479	5	0	0	0	0	0	0	0	0	5	0
Johnson C. Smith U.	483	4 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	4 i
U. Alaska, Southeast	483	4	0	0	0	0	0	0	0	0	4	0
California State U., Monterey Bay	485	3	1	0	2	0	0	0	0	0	0	0
Des Moines U.	485	3 i	0 i	1 i	2 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Winthrop U.	485	3	0	0	0	0	3	0	0	0	0	0



TABLE 29

**Higher education R&D expenditures funded by businesses, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Azusa Pacific U.	488	2	0	0	0	0	2	0	0	0	0	0
Northern Kentucky U.	488	2	0	0	2	0	0	0	0	0	0	0
U. of Mary Washington	488	2	0	0	0	0	2	0	0	0	0	0
Meharry Medical C.	491	1	0	0	1	0	0	0	0	0	0	0
Pace U.	491	1	0	0	0	0	0	0	0	0	0	1
Swarthmore C.	491	1	0	0	0	1	0	0	0	0	0	0
U. Massachusetts, central office	491	1	0	0	0	0	0	0	1	0	0	0
U. North Georgia	491	1	0	1	0	0	0	0	0	0	0	0

i = imputed.

nec = not elsewhere classified; S&amp;E = science and engineering.

<sup>a</sup> Johns Hopkins University includes the Applied Physics Laboratory, with \$6,563 thousand in business-financed R&D expenditures in FY 2021.<sup>b</sup> The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.<sup>c</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.<sup>d</sup> The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.**Note(s):**Institutions reporting zero expenditures in ranked total for FY 2021 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2021.

TABLE 30

**Higher education R&D expenditures funded by nonprofit organizations, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
All institutions	-	5,590,273	77,519	130,770	3,649,996	37,883	239,440	77,025	427,640	45,340	377,776	526,884
U. California, San Francisco	1	254,406	0	0	244,841	0	9,565	0	0	0	0	0
U. Washington, Seattle	2	212,584	2,022	9,823	172,777	420	3,375	208	4,979	0	8,134	10,846
U. California, Los Angeles	3	194,232	705	1,941	146,376	1,037	2,176	2,971	14,840	2,278	7,360	14,548
Stanford U.	4	186,565	2,057	7,004	123,010	365	15,352	3,022	10,369	225	14,326	10,835
Harvard U.	5	172,327	1,029	4,117	84,867	708	13,487	458	38,433	106	3,191	25,931
Johns Hopkins U. <sup>a</sup>	6	145,027	789	741	129,045	323	4,155	243	2,160	313	3,907	3,351
U. California, Berkeley	7	137,896	6,434	625	46,602	636	16,545	3,705	17,566	8,314	20,653	16,816
U. Wisconsin-Madison	8	117,817	2,560	2,847	69,112	880	5,961	1,678	8,319	3,162	8,746	14,552
Cornell U.	9	115,910	1,474	190	100,108	23	2,950	488	2,115	0	4,168	4,394
U. Pennsylvania	10	111,885	397	699	85,922	937	2,335	2,182	5,258	0	3,277	10,878
Columbia U. in the City of New York	11	106,884	821	15,585	60,337	542	2,722	518	5,380	0	3,717	17,262
Duke U.	12	98,223	53	689	77,672	1,268	264	675	7,416	0	5,445	4,741
Massachusetts Institute of Technology	13	92,386	3,764	3,653	15,481	2,052	6,649	0	25,363	1,169	22,666	11,589
Yale U.	14	92,343	75	137	76,192	475	3,676	764	2,626	0	1,248	7,150
New York U.	15	90,401	1,465	9	56,473	1,908	1,392	2,902	5,353	0	2,068	18,831
U. California, San Diego	16	87,380	582	3,582	51,792	217	10,401	835	4,725	79	13,752	1,415
Washington U., Saint Louis	17	85,060	32	189	77,755	1	822	260	372	0	1,809	3,820
U. North Carolina, Chapel Hill	18	79,885	1,570	119	52,119	62	1,921	4,813	10,279	0	1,268	7,734
Indiana U., Bloomington	19	70,216	943	9	60,589	107	521	486	3,736	566	814	2,445
U. Pittsburgh, Pittsburgh	20	65,217	4	110	58,812	258	648	38	857	2,352	1,031	1,107
U. Michigan, Ann Arbor	21	63,650	999	179	40,339	256	1,863	1,045	8,350	0	6,294	4,325
Emory U.	22	62,768	104	88	59,602	94	334	278	408	0	359	1,501
Princeton U.	23	57,700	1,423	1,406	12,569	1,537	8,645	789	25,771	0	2,749	2,811
Georgetown U.	24	57,585	14,532	0	15,793	2,245	142	0	13,832	0	0	11,041
Arizona State U.	25	56,958	1,108	1,767	13,728	142	1,277	1,676	6,654	7,589	6,723	16,294
U. Southern California	26	56,073	302	650	32,749	63	388	730	9,886	10	1,378	9,917
U. Texas Southwestern Medical Center	27	52,491	0	0	52,491	0	0	0	0	0	0	0
Ohio State U.	28	50,022	123	76	38,762	14	1,544	142	1,366	1,141	3,548	3,306
Rutgers, State U. New Jersey, New Brunswick	29	49,049	158	1,375	31,617	514	1,413	378	1,529	0	1,984	10,081

TABLE 30

**Higher education R&D expenditures funded by nonprofit organizations, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Baylor C. of Medicine	30	48,513	0	0	48,513	0	0	0	0	0	0	0
Icahn School of Medicine at Mount Sinai	31	48,289	0	0	48,289	0	0	0	0	0	0	0
California Institute of Technology	32	47,355	674	8,441	17,651	313	12,816	0	0	0	3,030	4,430
Northwestern U.	33	47,280	7	239	33,657	133	4,042	24	1,665	1,992	1,933	3,588
U. Florida	34	46,582	95	156	41,129	68	427	286	1,097	0	1,689	1,635
U. Minnesota, Twin Cities	35	45,879	321	10	35,699	630	164	1,348	2,325	849	1,968	2,565
U. Colorado Anschutz Medical Campus <sup>b</sup>	36	45,580	0	0	45,351	0	39	0	22	0	0	168
Boston U.	37	45,146	95	191	33,748	580	1,260	1,597	2,035	81	1,479	4,080
Texas A&M U., College Station and Health Science Center	38	45,135	72	1,877	14,250	76	5,128	342	1,390	53	20,619	1,328
U. California, Davis	39	44,693	65	1,546	34,922	530	645	599	1,081	0	2,812	2,493
U. Maryland <sup>c</sup>	40	43,450	626	472	28,029	196	1,548	74	7,656	2	1,522	3,325
U. Texas, Austin	41	43,258	1,414	2,040	9,293	6,226	4,112	275	3,716	290	8,203	7,689
Scripps Research Institute	42	41,462	0	0	41,462	0	0	0	0	0	0	0
U. Cincinnati	43	38,816	13	78	32,619	17	314	38	3,915	0	171	1,651
Rockefeller U.	44	38,301	0	206	37,131	147	817	0	0	0	0	0
Oregon Health and Science U.	45	37,168	0	0	36,321	0	0	60	0	0	773	14
U. Virginia, Charlottesville	46	34,515	842	99	16,248	333	361	712	2,937	418	1,190	11,375
U. California, Irvine	47	34,512	2,587	396	18,278	1,401	2,308	1,156	2,205	142	1,733	4,306
U. Illinois, Urbana-Champaign	48	33,562	1,093	10	16,592	330	4,567	395	539	327	6,317	3,392
U. Utah	49	33,417	223	236	24,810	323	512	336	139	0	368	6,470
U. Texas M. D. Anderson Cancer Center	50	32,741	0	0	30,492	185	563	490	1,011	0	0	0
U. Chicago	51	32,167	24	184	16,647	400	3,340	799	5,898	0	1,423	3,452
U. Alabama, Birmingham	52	31,641	0	170	29,666	3	849	252	2	0	674	25
Vanderbilt U. and Vanderbilt U. Medical Center	53	31,526	40	0	24,890	1	489	544	1,230	0	1,750	2,582
U. Arizona	54	31,045	33	814	8,958	18	17,546	158	1,172	36	1,988	322
George Mason U.	55	30,643	2,967	37	1,648	206	31	447	18,882	0	204	6,221
Rice U.	56	30,638	0	221	923	343	2,955	94	7,260	0	17,464	1,378
U. California, Santa Barbara	57	28,768	231	2,724	8,587	183	4,524	173	925	51	10,366	1,004

TABLE 30

**Higher education R&D expenditures funded by nonprofit organizations, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Tufts U.	58	26,955	73	4	12,301	313	625	79	9,513	1,063	1,812	1,172
Uniformed Services U. of the Health Sciences	59	26,859	0	0	26,163	0	0	696	0	0	0	0
Wayne State U.	60	26,574	90	14	19,689	1	943	367	472	0	1,837	3,161
Pennsylvania State U., University Park and Hershey Medical Center	61	26,230	813	1,033	15,451	251	1,892	475	1,702	0	3,051	1,562
George Washington U.	62	26,131	160	0	15,498	5	106	266	5,256	456	1,024	3,360
Purdue U., West Lafayette	63	25,857	194	23	11,200	99	960	105	1,038	0	6,535	5,703
Medical C. Wisconsin	64	25,747	0	0	25,449	0	0	0	0	0	298	0
U. Texas Health Science Center, San Antonio	65	25,548	0	0	25,548	0	0	0	0	0	0	0
U. Illinois, Chicago	66	25,065	831	14	19,920	10	460	401	672	257	434	2,066
SUNY, U. Buffalo	67	24,932	24	68	12,269	10	29	42	943	8	3,524	8,015
U. Miami	68	24,311	68	1,786	19,656	358	155	1,817	1	47	309	114
U. Texas Health Science Center, Houston	69	24,200	0	0	24,200	0	0	0	0	0	0	0
Georgia Institute of Technology	70	23,558	1,080	200	2,222	1,075	620	24	1,390	0	16,081	866
Case Western Reserve U.	71	19,766	260	0	15,801	175	198	368	154	112	2,633	65
Dartmouth C. and Dartmouth Hitchcock Medical Center	72	19,660	11	272	16,026	373	1,013	205	735	0	632	393
U. Massachusetts, Medical School	73	19,542	0	0	19,542	0	0	0	0	0	0	0
Colorado State U., Fort Collins	74	19,536	40	174	15,220	12	680	75	989	342	1,428	576
Brown U.	75	19,410	259	703	4,767	734	488	598	7,308	728	754	3,071
Cold Spring Harbor Laboratory	76	18,885	0	0	18,885	0	0	0	0	0	0	0
U. Iowa	77	18,601	5	22	16,054	50	76	109	149	600	468	1,068
Temple U.	78	18,260	114	392	12,895	58	124	564	664	0	344	3,105
U. Texas, Dallas	79	17,622	308	21	4,088	34	1,393	469	705	27	7,963	2,614
Michigan State U.	80	17,600	5	82	6,229	613	195	44	3,781	1,848	778	4,025
U. Notre Dame	81	17,293	44	0	5,808	89	669	26	3,346	1,339	1,390	4,582
Wake Forest U.	82	16,849	4	0	15,169	0	18	399	121	0	289	849
U. California, Santa Cruz	83	16,325	887	4,018	2,719	3	1,980	180	1,128	30	4,425	955
U. Rochester	84	15,949	0	9	14,796	1	648	30	0	0	90	375
Tulane U.	85	15,569	0	220	13,739	2	63	72	1,127	0	260	86

TABLE 30

**Higher education R&D expenditures funded by nonprofit organizations, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Boston C.	86	15,071	0	16	556	124	539	1,355	2,541	0	0	9,940
Texas Tech U.	87	14,929	70	311	4,464	79	490	418	1,588	0	1,119	6,390
Virginia Commonwealth U.	88	14,358	22	5	11,968	8	387	155	30	0	1,004	779
U. Colorado Boulder	89	14,357	147	308	3,257	3	1,934	791	1,264	105	2,517	4,031
U. Nebraska, Medical Center	90	14,356	0	0	14,356	0	0	0	0	0	0	0
U. New Mexico	91	14,088	29	0	11,573	5	0	238	1,683	102	374	84
U. Georgia	92	14,029	0	686	9,787	77	93	866	702	120	985	713
Albert Einstein C. of Medicine	93	13,585	0	0	13,585	0	0	0	0	0	0	0
U. Connecticut	94	12,683	4	185	8,177	14	185	1,430	837	299	878	674
U. Texas Medical Branch	95	12,116	0	0	12,116	0	0	0	0	0	0	0
Georgia State U.	96	11,938	70	43	1,957	3	205	1,078	2,453	0	0	6,129
U. Kansas	97	11,831	171	278	7,084	2	23	221	114	0	1,041	2,897
Washington State U.	98	11,326	4	147	8,747	3	549	52	486	40	569	729
U. Hawaii, Manoa	99	11,138	1	5,652	4,202	13	232	114	106	549	187	82
U. Kentucky	100	11,078	237	71	8,990	40	40	94	61	61	991	493
Teachers C., Columbia U.	101	10,914	217	0	2,787	0	0	187	7,691	0	0	32
Northeastern U.	102	10,718	345	477	2,687	176	2,604	475	988	0	1,385	1,581
Thomas Jefferson U.	103	10,704	0	0	10,704	0	0	0	0	0	0	0
U. South Florida <sup>d</sup>	104	10,584	156	756	5,626	3	22	91	1,177	322	851	1,580
Carnegie Mellon U.	105	10,503	5,295	0	1,136	122	312	194	457	70	2,713	204
Syracuse U.	106	10,501	148	82	288	0	361	15	1,442	0	693	7,472
U. Texas, San Antonio	107	9,854	294	2	1,000	0	20	0	12	340	99	8,087
Woods Hole Oceanographic Institution	108	9,792	0	7,509	0	0	0	0	0	0	2,283	0
Iowa State U.	109	9,644	0	90	4,704	31	33	633	174	0	3,843	136
U. Oklahoma, Norman and Health Science Center	110	9,504	0	1,069	5,509	27	90	7	91	0	476	2,235
SUNY, Stony Brook U.	111	9,416	63	1,311	5,293	380	565	188	122	859	516	119
American U.	112	9,199	0	34	2	0	4	9	3,688	394	0	5,068
Brandeis U.	113	9,045	441	0	661	67	655	315	5,917	0	0	989
Medical U. South Carolina	114	8,899	0	0	8,899	0	0	0	0	0	0	0
U. Missouri, Columbia	115	8,801	236	43	6,744	72	0	111	773	0	184	638
U. Vermont	115	8,801	176	0	7,893	291	49	177	177	0	34	4

TABLE 30

**Higher education R&D expenditures funded by nonprofit organizations, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Texas Rio Grande Valley	117	8,701	0	16	7,734	14	43	0	0	0	0	894
Drexel U.	118	8,682	37	0	6,330	0	14	176	412	231	953	529
Saint Louis U.	119	8,537	180	881	3,871	16	310	50	1,112	0	362	1,755
U. South Carolina, Columbia	120	8,354	35	49	4,844	10	11	1,120	887	0	20	1,378
Kansas State U.	121	7,814	3	44	6,840	57	41	4	228	18	275	304
Rush U.	122	7,807	0	0	7,775	0	0	32	0	0	0	0
New School	123	7,709	0	9	124	0	0	64	2,508	0	2,943	2,061
U. California, Riverside	124	7,703	144	301	2,715	0	168	740	1,664	159	687	1,125
U. Louisville	125	7,685	0	0	6,863	3	206	0	76	2	306	229
U. Tennessee, Health Science Center	126	7,514	0	0	7,514	0	0	0	0	0	0	0
U. Houston	127	7,309	0	0	1,323	6	1,890	638	73	16	1,854	1,509
Mississippi State U.	128	6,994	0	0	6,065	0	90	2	546	41	156	94
Clemson U.	129	6,562	75	0	4,548	6	134	0	113	0	1,090	596
Florida International U.	130	6,437	197	718	1,136	3	191	1,110	1,870	130	490	592
U. Arkansas, Fayetteville	131	6,257	32	36	894	0	24	6	42	0	2,903	2,320
New Jersey Institute of Technology	132	6,242	162	0	9	11	290	0	1,309	0	1,154	3,307
U. Nebraska, Lincoln	133	6,145	0	70	3,201	17	6	80	190	0	1,699	882
U. Texas, Arlington	134	6,131	13	8	195	5	967	0	0	0	3,369	1,574
U. Tennessee, Knoxville	135	5,995	37	0	2,340	3	36	110	497	423	1,342	1,207
Louisiana State U., Baton Rouge	136	5,959	0	1,192	2,284	8	706	48	193	0	1,397	131
West Virginia U.	137	5,949	0	62	4,603	0	33	81	53	0	1,082	35
Chapman U.	138	5,766	0	15	1,745	0	179	52	2,604	0	0	1,171
U. Massachusetts, Amherst	139	5,479	528	5	1,390	167	379	78	308	58	1,970	596
Texas A&M U.-Kingsville	140	5,468	0	0	5,237	0	70	0	0	0	111	50
U. Oregon	141	5,448	0	53	2,594	1	1,081	620	236	6	0	857
U. Texas Health Science Center, Tyler	142	5,381	0	0	5,381	0	0	0	0	0	0	0
U. Denver	143	5,281	0	0	856	41	99	209	33	0	58	3,985
Virginia Polytechnic Institute and State U.	144	5,050	88	74	2,650	14	123	108	224	0	1,594	175
High Tech High Graduate School of Ed.	145	5,032	0	0	0	0	0	0	0	0	0	5,032
U. Central Florida	146	5,025	366	137	1,400	64	177	25	223	0	707	1,926
Indiana U.-Purdue U., Indianapolis	147	4,970	9	104	1,637	13	33	68	2,934	98	2	72

TABLE 30

**Higher education R&D expenditures funded by nonprofit organizations, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Florida Atlantic U.	148	4,968	9	192	3,944	2	200	55	0	0	372	194
Texas State U.	149	4,888	57	1,027	672	11	331	0	202	0	268	2,320
U. Massachusetts, Boston	150	4,829	0	438	785	0	409	396	1,322	0	4	1,475
North Carolina State U.	151	4,806	123	95	2,951	309	256	31	44	37	950	10
East Tennessee State U.	152	4,785	0	19	1,748	0	42	2,231	20	0	0	725
Montana State U., Bozeman	153	4,742	6	45	2,362	1	1,247	20	54	0	566	441
U. Arkansas for Medical Sciences	154	4,730	0	0	4,730	0	0	0	0	0	0	0
Augusta U.	155	4,531	0	0	4,503	0	13	0	15	0	0	0
Baylor U.	156	4,510	49	18	1,171	3	397	1,198	278	0	61	1,335
William & Mary	157	4,453	134	341	207	3	571	29	2,031	0	0	1,137
U. Washington, Bothell	158	4,386	0	7	151	0	0	0	0	0	0	4,228
Cleveland State U.	159	4,303	0	0	2,792	0	0	18	454	0	799	240
U. Delaware	160	4,176	75	575	878	15	124	212	463	0	1,406	428
Desert Research Institute	161	4,109	0	1,342	2,767	0	0	0	0	0	0	0
Florida State U.	162	3,764	5	461	799	59	170	89	187	129	60	1,805
Loyola U., Chicago	163	3,695	0	0	3,095	0	0	58	427	0	0	115
Van Andel Research Institute	164	3,610	0	0	3,610	0	0	0	0	0	0	0
Old Dominion U.	165	3,565	157	46	401	20	81	1	43	0	2,683	133
U. New Hampshire	166	3,511	22	824	1,933	0	47	0	336	0	3	346
U. Texas, El Paso	167	3,441	170	51	784	25	410	57	150	0	360	1,434
Morehouse School of Medicine	168	3,223	0	0	3,223	0	0	0	0	0	0	0
Louisiana State U., Health Sciences Center, New Orleans	169	3,178	0	0	3,178	0	0	0	0	0	0	0
U. Mississippi	170	3,165	0	11	2,426	4	146	0	112	0	147	319
Louisiana State U., Health Sciences Center, Shreveport	171	3,160	0	0	3,160	0	0	0	0	0	0	0
U. Memphis	172	3,142	17	0	306	0	37	25	1,331	405	434	587
Oregon State U.	173	2,956	0	250	1,636	0	0	186	219	0	640	25
U. Maine	174	2,857	0	830	1,118	0	62	6	448	24	186	183
South Dakota State U.	175	2,820	31	0	2,311	1	41	0	46	0	280	110
U. Missouri, Saint Louis	176	2,804	4	0	658	0	1	0	889	0	0	1,252
SUNY, U. Albany	177	2,735	0	67	1,806	18	51	39	458	0	0	296
SUNY, Upstate Medical U.	178	2,647	0	0	2,647	0	0	0	0	0	0	0

TABLE 30

**Higher education R&D expenditures funded by nonprofit organizations, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Texas A&M U.-Corpus Christi	179	2,642	0	2,146	189	0	183	0	0	122	0	2
CUNY, John Jay C. of Criminal Justice	180	2,597	0	0	0	0	0	562	170	0	0	1,865
U. Toledo	181	2,592	0	371	1,337	0	530	103	0	0	102	149
Worcester Polytechnic Institute	182	2,533	765	0	101	7	6	0	41	0	1,579	34
Claremont Graduate U.	183	2,355	0	0	0	0	0	136	630	0	0	1,589
San Diego State U.	184	2,340	0	0	894	66	328	216	311	0	72	453
Oklahoma State U., Stillwater	185	2,322	0	0	839	7	74	24	50	0	1,194	134
Montclair State U.	186	2,163	0	723	397	0	0	122	0	7	0	914
Southern Methodist U.	187	2,144	1	0	57	106	174	2	6	0	97	1,701
Framingham State U.	188	2,132	0	0	2,054	0	78	0	0	0	0	0
Humboldt State U.	189	2,108	0	119	714	0	6	1	326	0	863	79
Marquette U.	190	2,042	82	0	1,018	46	8	63	3	0	690	132
U. Rhode Island	191	2,034	0	1,318	586	0	65	2	17	42	4	0
Wellesley C.	192	2,024	0	9	3	1	41	645	373	0	0	952
U. Montana, Missoula	193	2,017	4	276	1,645	2	0	0	85	0	0	5
California Polytechnic State U., San Luis Obispo	194	2,003	0	79	624	0	833	0	147	0	308	12
Colorado School of Mines	195	1,990	5	335	5	0	96	0	111	0	1,402	36
New Mexico State U.	196	1,982	0	3	69	0	1,798	4	9	3	21	75
U. Maryland, Baltimore County	197	1,979	172	90	544	28	234	106	293	3	189	320
Rensselaer Polytechnic Institute	198	1,917	0	0	508	0	185	0	0	0	1,185	39
East Carolina U.	199	1,858	0	45	1,156	0	27	89	128	0	51	362
Auburn U., Auburn	200	1,818	1	106	1,183	0	31	9	0	0	289	199
Brigham Young U., Provo	201	1,772	0	2	924	5	25	39	52	0	712	13
U. Alaska, Fairbanks	202	1,758	2	717	85	0	589	0	0	42	309	14
Philadelphia C. of Osteopathic Medicine	203	1,756	0	0	1,756	0	0	0	0	0	0	0
U. Wyoming	203	1,756	0	40	1,425	4	0	0	138	0	0	149
Portland State U.	205	1,724	0	0	77	0	185	27	352	0	57	1,026
U. North Carolina, Asheville	206	1,706	0	8	782	0	67	0	0	0	0	849
Kent State U.	207	1,700	3	177	304	17	467	139	241	0	76	276
U. Nevada, Reno	208	1,698	0	0	737	5	62	55	335	0	498	6



TABLE 30

**Higher education R&D expenditures funded by nonprofit organizations, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Colorado Denver <sup>b</sup>	209	1,671	1	11	653	3	12	166	0	0	109	716
U. Massachusetts, Lowell	210	1,664	157	2	795	1	112	5	47	0	401	144
U. Maryland Center for Environmental Science	211	1,636	0	1,018	537	15	45	0	21	0	0	0
New York Medical C.	212	1,503	0	0	1,503	0	0	0	0	0	0	0
Meharry Medical C.	213	1,490	0	0	1,490	0	0	0	0	0	0	0
Clark U.	214	1,431	0	651	603	0	37	0	63	0	0	77
Duquesne U.	215	1,429	0	135	383	0	3	111	21	0	4	772
Oakland U.	216	1,423	78	0	291	0	342	4	1	0	707	0
Pratt Institute	217	1,380	0	0	0	0	0	0	0	0	0	1,380
Villanova U.	218	1,368	0	0	137	0	31	23	0	0	272	905
CUNY, Graduate School of Public Health and Health Policy	219	1,343	0	0	1,343	0	0	0	0	0	0	0
U. North Texas, Denton	220	1,329	106	27	185	24	222	20	40	0	45	660
U. Alabama, Tuscaloosa	221	1,291	0	78	103	6	37	82	84	0	639	262
U. California, Merced	222	1,290	138	51	218	0	9	0	432	4	216	222
Northern Arizona U.	223	1,286	15	0	1,025	0	9	3	0	3	114	117
Texas Tech U., Health Sciences Center	224	1,268	0	0	1,196	0	0	0	0	0	0	72
Rowan U.	225	1,239	80	119	406	0	69	4	7	0	371	183
California State U., Fresno	226	1,232	0	8	1,169	0	0	0	3	0	9	43
Hope C.	227	1,207	63	4	205	0	255	177	164	0	37	302
Western Washington U.	228	1,203	4	119	5	0	105	920	11	13	0	26
Loma Linda U.	229	1,160	0	0	1,061	0	0	0	0	0	0	99
U. New Orleans	230	1,159	3	207	2	0	2	1	895	5	5	39
Pennsylvania State U., Behrend	231	1,142	0	0	113	0	46	76	0	0	904	3
California State U., Northridge	232	1,099	0	52	321	50	89	21	10	0	116	440
Loyola Marymount U.	233	1,088	0	33	59	7	0	150	77	0	0	762
Winston-Salem State U.	234	1,077	0	0	290	0	0	0	781	0	0	6
San Jose State U.	235	1,071	0	800	19	75	58	0	5	0	64	50
CUNY, City C.	236	1,045	134	48	439	8	12	0	1	0	314	89
Ohio U.	237	1,040	0	0	846	0	7	97	2	0	88	0
Kennesaw State U.	238	1,032	325	0	50	0	5	10	11	106	40	485

TABLE 30

## Higher education R&amp;D expenditures funded by nonprofit organizations, ranked by all R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Grand Valley State U.	239	1,023	0	146	175	0	0	0	676	0	2	24
Catholic U. of America	240	1,013	0	0	0	0	0	26	538	0	27	422
Fordham U.	241	1,011	0	0	202	0	5	72	110	0	0	622
CUNY, Graduate Center	242	980	0	0	4	0	29	288	213	0	0	446
SUNY, Binghamton U.	243	962	0	33	204	3	71	76	2	0	562	11
Central Michigan U.	244	952	0	0	717	3	9	134	21	0	0	68
U. North Carolina, Wilmington	245	951	0	0	428	24	0	0	72	0	0	427
SUNY, Downstate Health Sciences U.	246	950	0	0	950	0	0	0	0	0	0	0
U. Wisconsin-Milwaukee	247	924	2	197	276	8	0	27	62	0	155	197
Trinity U.	248	913	2	9	143	1	321	26	265	0	25	121
Marshall U.	249	911	0	0	757	0	4	2	0	0	52	96
Erikson Institute	250	904	0	0	0	0	0	0	0	0	0	904
Rutgers, State U. New Jersey, Newark	251	879	0	0	132	0	5	352	260	0	0	130
Clarkson U.	252	871	0	0	19	0	125	0	0	0	476	251
Illinois Institute of Technology	253	861	3	0	287	0	34	0	0	0	520	17
Wesleyan U.	254	854	0	0	156	0	89	0	0	0	0	609
North Carolina Central U.	255	844	120	0	13	0	0	0	162	0	5	544
Howard U.	256	839	42	0	545	23	70	25	134	0	0	0
U. New Haven	257	832	7	6	55	0	0	0	656	0	67	41
Sul Ross State U.	258	810	0	11	578	0	0	0	221	0	0	0
Eastern Virginia Medical School	259	783	0	0	783	0	0	0	0	0	0	0
Colorado C.	260	782	0	0	75	0	37	0	24	0	0	646
Illinois State U.	261	772	0	29	88	26	24	0	270	0	0	335
Pacific U.	262	769	0	0	477	0	6	0	46	0	0	240
U. Missouri, Kansas City	263	763	0	5	574	2	0	27	67	0	50	38
Middle Tennessee State U.	264	758	0	0	20	0	0	0	732	0	0	6
Bowling Green State U.	265	754	0	0	65	3	36	71	568	0	0	11
U. North Carolina, Charlotte	266	753	0	0	282	3	0	38	14	0	43	373
SUNY, C. of Environmental Science and Forestry	267	752	59	0	631	0	0	0	0	0	62	0
U. Baltimore	268	745	0	0	0	0	0	0	534	0	0	211
San Francisco State U.	269	743	0	172	308	30	43	0	162	28	0	0

TABLE 30

**Higher education R&D expenditures funded by nonprofit organizations, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. North Dakota	270	740	0	131	126	0	0	0	0	0	454	29
Albany Medical C.	271	709	0	0	709	0	0	0	0	0	0	0
U. Texas of the Permian Basin	272	706	0	0	1	0	2	0	0	0	459	244
Rosalind Franklin U. of Medicine and Science	273	705	0	0	705	0	0	0	0	0	0	0
Florida Institute of Technology	274	703	5	7	249	0	31	0	0	0	291	120
CUNY, Advanced Science Research Center	275	702	47	43	229	0	380	0	0	0	3	0
U. Oklahoma, Tulsa	276	696	0	0	138	0	0	0	6	0	42	510
Stevens Institute of Technology	277	675	0	0	11	14	45	0	0	0	364	241
Boise State U.	278	670	0	13	290	4	5	18	129	0	156	55
DePaul U.	279	666	16	0	15	2	18	86	10	50	0	469
Northeast Ohio Medical U.	280	658	0	3	652	0	0	0	3	0	0	0
U. Southern Mississippi	281	655	0	246	87	0	56	0	130	0	74	62
U. Akron	282	653	0	0	77	14	150	82	18	0	312	0
Nova Southeastern U.	283	629	14	470	88	0	0	45	0	0	0	12
Texas A&M International U.	284	628	0	0	23	0	7	0	36	0	0	562
U. North Texas, Health Science Center	285	626	0	0	620	0	0	0	6	0	0	0
Missouri U. of Science and Technology	286	616	0	0	0	2	83	1	0	0	530	0
Lehigh U.	287	613	0	0	165	10	322	2	22	0	34	58
Rutgers, State U. New Jersey, Camden	288	612	1	0	0	0	0	2	318	0	0	291
U. Alabama, Huntsville	289	610	36	34	12	0	510	0	0	0	3	15
Texas Woman's U.	290	608	0	0	157	0	0	354	6	0	0	91
Indiana U. Pennsylvania	291	607	0	0	372	0	0	31	5	0	0	199
Monmouth U.	292	601	0	572	24	0	5	0	0	0	0	0
U. Idaho	293	586	0	7	516	0	6	14	1	0	31	11
Wright State U.	294	582	15	0	344	0	18	0	0	0	179	26
Morgan State U.	295	571	0	0	0	17	0	0	21	0	244	289
La Sierra U.	296	568	0	0	0	0	0	0	0	0	0	568
U. of St. Thomas (MN)	297	559	0	0	11	0	0	232	3	0	16	297
Rochester Institute of Technology	298	558	267	0	0	0	27	0	0	0	183	81
Western Michigan U. and Homer Stryker M.D. School of Medicine	299	547	0	3	59	3	8	3	0	2	100	369

TABLE 30

## Higher education R&amp;D expenditures funded by nonprofit organizations, ranked by all R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Creighton U.	300	542	16 i	0 i	402 i	4 i	27 i	6 i	34 i	0 i	0 i	53 i
North Dakota State U.	301	536	0	3	113	0	0	95	258	0	67	0
Santa Clara U.	301	536	0	0	24	24	58	0	32	0	233	165
California State U., Long Beach	303	528	4	0	312	0	11	0	0	0	4	197
U. Massachusetts, Dartmouth	304	513	0	113	4	44	139	0	6	0	207	0
California State U., Sacramento	305	508	0	20	10	0	0	0	27	288	0	163
Miami U.	305	508	0	6	334	0	17	54	66	0	25	6
James Madison U.	307	507	55	5	93	0	174	17	3	1	5	154
MGH Institute of Health Professions	307	507	0	0	0	0	0	0	0	0	0	507
U. Massachusetts, central office	309	504	0	0	109	0	0	0	110	0	0	285
Lamar U.	310	500	0	0	0	0	55	0	0	0	149	296
Colby C.	311	495	13	33	37	1	13	62	51	0	0	285
Utah State U.	312	482	30	0	388	4	0	14	0	0	37	9
Franklin W. Olin C. of Engineering	313	481	0	0	0	0	0	0	0	0	92	389
Jackson State U.	314	473	8	0	291	1	0	30	5	0	68	70
Southern Connecticut State U.	314	473	0	93	99	0	57	0	0	193	0	31
U. South Dakota	316	472	0	0	218	0	179	12	0	0	60	3
CUNY, Hunter C.	317	471	25	1	60	12	10	153	11	0	0	199
Northern Illinois U.	318	467	0	0	62	2	46	15	64	0	266	12
U. Nevada, Las Vegas	318	467	0	0	265	3	0	24	0	0	0	175
Northern Kentucky U.	320	458	6	0	323	0	58	6	0	0	0	65
SUNY, Polytechnic Institute	321	456	0	0	0	0	0	0	0	0	332	124
Georgia Southern U.	322	452	0	0	55	0	5	0	0	0	192	200
Occidental C.	322	452	0	77	50	0	240	41	44	0	0	0
Canisius C.	324	439	0	0	0	0	0	0	0	439	0	0
Prairie View A&M U.	324	439	0	0	13	0	33	0	0	54	195	144
Rhode Island C.	324	439	0	0	44	0	0	32	0	0	0	363
Southern Illinois U., Carbondale	327	437	0	0	153	3	0	3	0	0	278	0
Smith C.	328	436	0	40	350	0	23	0	23	0	0	0
Florida Gulf Coast U.	329	434	0	139	60	0	51	0	3	0	17	164
U. San Francisco	329	434	0	0	168	0	22	0	68	11	0	165
Embry-Riddle Aeronautical U.	331	426	186	27	0	30	103	0	15	0	24	41

TABLE 30

**Higher education R&D expenditures funded by nonprofit organizations, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
CUNY, Queens C.	332	425	0	17	97	1	0	78	226	0	0	6
Michigan Technological U.	333	422	0	213	8	3	14	0	47	0	137	0
Davidson C.	334	421	0	0	131	0	0	60	187	0	0	43
U. Hawaii, Hilo	334	421	0	1	393	3	0	0	0	0	0	24
Sam Houston State U.	336	416	0	0	11	4	105	0	91	0	0	205
U. San Diego	337	414	0	0	0	0	277	0	7	0	10	120
U.S. Naval Academy	338	402	86	36	0	126	1	0	8	0	74	71
U. North Carolina, Greensboro	339	401	37	0	11	0	0	34	121	0	0	198
Virginia State U.	340	397	0	0	9	0	0	0	0	0	0	388
C. New Jersey	341	393	0	0	294	0	26	0	0	66	7	0
St. John's U., New York	341	393	1	0	197	0	1	28	0	0	0	166
U. Richmond	343	390	0	0	67	110	108	88	17	0	0	0
Seton Hall U.	344	381	0	0	0	0	0	0	0	0	0	381
C. Charleston	345	377	5	32	153	2	6	0	4	0	0	175
Hamilton C.	346	374	0	0	0	0	0	0	2	0	0	372
U. Houston-Downtown	347	372	0	0	2	0	258	0	112	0	0	0
California State U., Los Angeles	348	371	0	0	0	0	27	81	53	0	210	0
Barnard C.	349	365	108	0	36	0	33	14	128	0	0	46
CUNY, system office	350	360	83	0	0	0	0	49	0	228	0	0
Fisk U.	351	356	0	0	0	8	120	60	7	0	0	161
U. Alaska, Anchorage	351	356	0	56	210	0	0	0	66	0	0	24
Pepperdine U.	353	355	0	0	0	0	8	38	245	0	0	64
Skidmore C.	354	351	0	99	125	0	66	32	29	0	0	0
California State U., East Bay	355	349	0	0	30	6	0	13	0	0	0	300
Fairfield U.	356	348	1	0	8	0	42	3	20	0	57	217
U. Puerto Rico, Rio Piedras	356	348	0	0	5	0	49	0	192	0	0	102
Lawrence Technological U.	358	343	0	0	0	0	6	0	0	0	76	261
CUNY, Brooklyn C.	359	339	0	212	1	0	13	4	102	0	0	7
Claremont McKenna C.	360	330	0	0	0	0	0	0	298	0	0	32
Gallaudet U.	361	327	249	0	35	0	0	7	36	0	0	0
U. Tulsa	362	320	36	0	40	0	0	47	0	0	99	98
Swarthmore C.	363	310	4	0	165	22	65	0	14	0	4	36

TABLE 30

## Higher education R&amp;D expenditures funded by nonprofit organizations, ranked by all R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Haverford C.	364	308	5 i	15 i	122 i	4 i	28 i	10 i	32 i	0 i	0 i	92 i
Charles R. Drew U. of Medicine and Science	365	298	0	0	298	0	0	0	0	0	0	0
Wichita State U.	366	297	0	0	0	0	1	16	0	0	101	179
Babson C.	367	293	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	293 i
Pace U.	367	293	138	0	2	0	153	0	0	0	0	0
Reed C.	369	291 i	1 i	0 i	34 i	6 i	63 i	33 i	38 i	0 i	0 i	116 i
Mount Holyoke C.	370	287	0	0	10	0	19	125	20	0	0	113
U. Dayton	371	272	114	0	14	0	0	25	0	0	109	10
Long Island U.	372	271	0	0	202	0	37	2	26	0	0	4
U. Michigan, Dearborn	372	271	0	0	11	0	0	127	0	0	133	0
Seattle U.	374	270	0	0	1	3	4	0	139	0	33	90
U.S. Military Academy	375	268	0	0	68	0	0	0	0	0	200	0
New York Institute of Technology	376	266	0	0	187	0	0	0	0	0	59	20
Idaho State U.	377	264	0	0	236	0	16	0	0	0	7	5
Colgate U.	378	261	0	0	39	78	94	0	0	0	0	50
Middlebury C.	378	261	0	10	0	62	1	1	187	0	0	0
Lewis and Clark C.	380	260	0	1	25	5	133	3	7	0	0	86
Western U. of Health Sciences	380	260	0	0	98	0	0	0	0	0	0	162
Des Moines U.	382	257 i	0 i	11 i	189 i	0 i	0 i	0 i	23 i	0 i	0 i	34 i
North Carolina Agricultural and Technical State U.	382	257	0	0	0	0	0	0	26	0	0	231
Yeshiva U.	384	256	0	0	256	0	0	0	0	0	0	0
Bryn Mawr C.	385	255	3	14	14	7	28	13	43	0	0	133
U. Louisiana, Lafayette	385	255	23	22	14	36	6	0	0	0	10	144
U. West Florida	385	255	0	0	19	6	0	0	24	0	0	206
Wheaton C., Wheaton	388	254	0	0	0	0	4	59	176	0	0	15
U. New England	389	253	0	25	227	0	0	1	0	0	0	0
U. Texas, Tyler	390	252	0	0	204	0	46	0	0	0	2	0
U. Nebraska, central administration	391	250	0	0	0	0	0	0	0	0	250	0
St. Cloud State U.	392	245	0	1	4	0	0	0	10	0	0	230
Texas Tech U., Health Sciences Center, El Paso	393	241	0	0	220	0	0	0	0	0	0	21

TABLE 30

## Higher education R&amp;D expenditures funded by nonprofit organizations, ranked by all R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields				
Ball State U.	394	236	0	0	41	0	27	12	129	0	0	27				
Arcadia U.	395	229	0	0	107	0	0	0	0	0	0	122				
Carleton C.	395	229	0	21	0	0	18	0	1	0	0	189				
U. Tennessee, Chattanooga	397	223	0	0	34	0	0	32	0	49	107	1				
U. North Georgia	398	221	0	72	4	0	0	0	5	0	0	140				
U. Northern Colorado	399	218	0	0	172	0	18	0	28	0	0	0				
Midwestern U.	400	215	0	0	215	0	0	0	0	0	0	0				
Northland C.	401	213	i	0	i	13	i	94	i	3	i	0	i	71	i	
Pennsylvania State U., Harrisburg	402	211	0	0	28	0	0	0	18	0	112	53				
U. South Alabama	402	211	0	23	164	1	0	23	0	0	0	0				
Vassar C.	404	209	84	0	49	4	3	22	47	0	0	0				
CUNY, Baruch C.	405	204	0	28	8	0	0	0	154	0	0	14				
Bucknell U.	406	203	0	0	12	0	70	0	57	0	48	16				
California State U., Fullerton	406	203	5	4	22	0	43	23	14	0	0	92				
Niagara U.	406	203	0	0	7	0	7	0	133	0	0	56				
U. Central Arkansas	409	200	0	3	62	0	67	61	0	0	0	7				
Grinnell C.	410	192	0	0	0	0	0	0	17	0	0	175				
New Mexico Institute of Mining and Technology	411	191	0	191	0	0	0	0	0	0	0	0				
U. Southern Maine	412	190	0	0	0	0	4	0	186	0	0	0				
Minnesota State U., Mankato	413	184	0	2	0	0	8	0	0	0	170	4				
Edward Via C. of Osteopathic Medicine	414	182	0	0	182	0	0	0	0	0	0	0				
Towson U.	415	181	0	0	106	0	15	55	0	0	0	5				
U. Nebraska, Omaha	416	177	23	10	38	3	9	22	68	0	0	4				
Oregon Institute of Technology	417	176	5	i	13	i	120	i	3	i	0	i	5	i	0	i
Xavier U. Louisiana	418	175	0	0	159	0	16	0	0	0	0	0				
Ponce Health Sciences U.	419	173	0	0	173	0	0	0	0	0	0	0				
California State U., Monterey Bay	420	172	0	18	108	0	0	0	39	0	0	7				
Florida A&M U.	421	170	0	79	89	0	0	0	0	0	0	2				
Bates C.	422	165	0	5	97	2	12	6	18	0	0	25				
Stephen F. Austin State U.	423	164	0	0	38	0	13	0	1	0	0	112				
Hofstra U.	424	162	51	0	22	1	0	0	77	0	2	9				

TABLE 30

## Higher education R&amp;D expenditures funded by nonprofit organizations, ranked by all R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
California State Polytechnic U., Pomona	425	159	0	21	70	0	0	0	9	0	59	0
Calvin U.	426	158	i 58 i	9 i	17 i	0 i	18 i	0 i	26 i	0 i	22 i	8 i
U. Guam	427	156	0	0	150	6	0	0	0	0	0	0
U. Louisiana, Monroe	427	156	0	0	123	0	0	0	7	0	0	26
U. of the Virgin Islands	429	155	0	77	55	0	0	0	0	0	23	0
Northwest Indian C.	430	153	i 0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	153 i
Azusa Pacific U.	431	152	10	0	0	0	0	136	0	0	0	6
Christopher Newport U.	432	149	0	0	4	0	86	0	45	0	0	14
Suffolk U.	433	148	0	0	0	0	1	0	0	0	0	147
Tarleton State U.	433	148	0	6	58	29	25	0	0	0	0	30
Roger Williams U.	435	147	0	46	8	0	0	0	0	0	0	93
U. of the Sciences Philadelphia	435	147	0	0	93	0	54	0	0	0	0	0
Texas A&M U.-Commerce	437	141	0	0	86	28	26	0	0	0	0	1
California State U., San Bernardino	438	140	0	0	0	0	0	104	36	0	0	0
U. Wisconsin-Eau Claire	439	139	0	0	10	0	53	44	32	0	0	0
Indiana U., South Bend	440	138	0	0	7	0	10	121	0	0	0	0
Bowdoin C.	441	135	0	9	0	1	7	0	1	0	0	117
Williams C.	442	134	i 2 i	3 i	11 i	6 i	35 i	3 i	27 i	0 i	0 i	47 i
Mills C.	443	129	0	0	129	0	0	0	0	0	0	0
U. Puerto Rico, Cayey	443	129	0	0	0	0	0	0	129	0	0	0
California State U., Chico	445	128	0	0	109	0	0	0	0	0	19	0
Northern Michigan U.	446	127	0	0	121	0	5	1	0	0	0	0
Willamette U.	446	127	0	1	8	0	20	0	0	0	0	98
U. Wisconsin-Stevens Point	448	121	0	0	94	0	27	0	0	0	0	0
U. Hartford	449	120	0	0	0	0	0	51	52	0	12	5
Eastern Michigan U.	450	119	0	0	50	0	0	52	17	0	0	0
West Chester U. Pennsylvania	450	119	0	0	0	0	32	34	25	0	0	28
Appalachian State U.	452	115	0	80	31	0	2	1	0	0	0	1
Saginaw Valley State U.	453	114	i 1 i	8 i	31 i	0 i	4 i	2 i	20 i	3 i	37 i	8 i
Texas Southern U.	453	114	0	0	34	0	0	0	0	0	0	80
William Paterson U.	455	113	0	0	12	0	95	0	0	0	0	6



TABLE 30

## Higher education R&amp;D expenditures funded by nonprofit organizations, ranked by all R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Albany C. of Pharmacy and Health Sciences	456	109	0	0	109	0	0	0	0	0	0	0
Eastern Washington U.	456	109	0	0	5	1	1	3	99	0	0	0
Winthrop U.	458	105	0	0	0	0	0	0	105	0	0	0
Andrews U.	459	102	0	0	0	0	0	0	80	0	0	22
CUNY, Lehman C.	459	102	0	0	0	3	0	0	6	0	0	93
Salisbury U.	459	102	0	0	71	0	0	2	0	0	0	29
U. Washington, Tacoma	462	99	1	0	29	0	0	0	27	0	5	37
Biola U.	463	98	i 3	i 0	i 68	i 1	i 4	i 1	i 5	i 1	i 8	i 7
Harvey Mudd C.	463	98	30	0	0	0	53	0	0	4	11	0
Kentucky State U.	463	98	0	0	98	0	0	0	0	0	0	0
U. Arkansas, Little Rock	466	94	60	0	0	0	0	0	0	0	34	0
Purdue U., Northwest	467	93	0	0	7	0	0	16	0	16	42	12
Macalester C.	468	91	0	33	25	0	33	0	0	0	0	0
C. Wooster	469	88	i 12	i 5	i 19	i 5	i 12	i 4	i 2	i 0	i 0	i 29
Saint Joseph's U.	470	85	0	0	27	0	44	14	0	0	0	0
Alfred U.	471	83	0	0	0	0	0	0	0	0	83	0
U. Wisconsin-Green Bay	471	83	2 i	3 i	48 i	1 i	4 i	1 i	4 i	0 i	13 i	7 i
Mercer U.	473	82	0	0	55	0	7	0	8	9	0	3
U. Northern Iowa	474	80	0	0	1	0	23	0	24	0	0	32
Furman U.	475	77	0	0	9	0	49	0	2	0	0	17
Lipscomb U.	475	77	0	0	0	0	0	0	0	77	0	0
U. Minnesota, Duluth	475	77	0	0	25	0	6	2	0	0	44	0
CUNY, C. Staten Island	478	76	0	0	5	3	1	24	0	0	0	43
South Dakota School of Mines and Technology	478	76	0	0	0	0	0	0	0	0	76	0
Tennessee Technological U.	478	76	0	1	8	0	0	0	15	0	52	0
Lafayette C.	481	75	0	0	3	0	7	0	0	0	25	40
Drake U.	482	74	0	0	56	0	0	0	4	0	0	14
SUNY, C. Brockport	482	74	0	0	71	0	0	0	0	0	0	3
Hobart and William Smith Colleges	484	73	0	1	50	0	20	0	0	0	0	2
Amherst C.	485	71	2	2	16	2	24	0	25	0	0	0
Providence C.	486	68	0	0	31	0	23	0	12	0	0	2



TABLE 30

## Higher education R&amp;D expenditures funded by nonprofit organizations, ranked by all R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields					
U. Michigan, Flint	518	38	0	0	27	0	0	0	11	0	0	0					
U. of the Incarnate Word	518	38	0	0	38	0	0	0	0	0	0	0					
Hawaii Pacific U.	520	36	0	4	0	0	0	0	0	0	0	32					
U. Colorado Colorado Springs	520	36	0	0	0	0	15	0	10	0	0	11					
Ithaca C.	522	35	0	13	7	0	13	2	0	0	0	0					
Keck Graduate Institute	522	35	i	0	i	0	i	0	i	0	i	4	i	4	i		
Norfolk State U.	522	35	0	0	0	0	0	0	0	0	35	0					
U. Arkansas, Pine Bluff	522	35	0	0	33	2	0	0	0	0	0	0					
U. Wisconsin-Oshkosh	526	33	0	0	0	0	33	0	0	0	0	0					
SUNY, C. Plattsburgh	527	32	0	32	0	0	0	0	0	0	0	0					
U. Illinois, Springfield	527	32	0	0	3	0	0	0	29	0	0	0					
St. Edward's U.	529	31	0	0	0	0	10	10	10	0	0	1					
West Texas A&M U.	529	31	0	0	0	0	31	0	0	0	0	0					
Oklahoma State U., Center for Health Sciences	531	30	0	0	0	0	0	30	0	0	0	0					
U. Wisconsin-Platteville	531	30	i	1	i	0	i	1	i	4	i	1	i	2	i	7	i
Alcorn State U.	533	29	0	0	21	0	0	0	8	0	0	0					
Eastern Kentucky U.	533	29	0	0	2	0	1	22	4	0	0	0					
U. of Health Sciences and Pharmacy in St. Louis	533	29	0	0	29	0	0	0	0	0	0	0					
Citadel Military C. South Carolina	536	27	0	0	0	0	0	0	0	0	0	27					
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	537	26	0	0	26	0	0	0	0	0	0	0					
Abilene Christian U.	538	25	0	0	0	0	0	0	0	25	0	0					
St. Olaf C.	538	25	0	0	11	0	2	4	4	0	0	4					
U. of Mary Washington	538	25	0	13	0	0	0	0	0	0	0	12					
Texas Christian U.	541	23	0	0	23	0	0	0	0	0	0	0					
Heidelberg U.	542	22	0	22	0	0	0	0	0	0	0	0					
Southern Illinois U., Edwardsville	542	22	0	0	8	10	0	0	0	0	1	3					
U. Minnesota, Morris	544	21	0	0	0	0	0	0	21	0	0	0					
Connecticut C.	545	20	0	0	0	0	0	0	20	0	0	0					
Missouri State U.	545	20	0	0	2	0	16	2	0	0	0	0					



TABLE 30

**Higher education R&D expenditures funded by nonprofit organizations, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Pittsburg State U.	577	1	0	0	1	0	0	0	0	0	0	0
Roseman U. of Health Sciences	577	1	0	0	0	0	0	0	0	0	0	1
Touro U.	577	1	0	0	1	0	0	0	0	0	0	0

i = imputed.

nec = not elsewhere classified; S&amp;E = science and engineering.

<sup>a</sup> Johns Hopkins University includes the Applied Physics Laboratory, with zero in nonprofit-financed R&D expenditures in FY 2021.<sup>b</sup> The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.<sup>b</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.<sup>d</sup> The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.**Note(s):**

Institutions reporting zero expenditures in ranked total for FY 2021 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2021.

TABLE 31

**Higher education R&D expenditures funded by all other sources, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
All institutions	-	2,689,857	61,955	80,817	1,649,190	7,518	116,236	20,493	136,848	32,238	418,057	166,505
U. California, San Francisco	1	192,436	0	0	186,093	0	6,343	0	0	0	0	0
U. California, San Diego	2	149,790	10,815	14,427	84,653	178	9,358	1,615	2,948	437	23,244	2,115
U. Texas M. D. Anderson Cancer Center	3	136,704	0	0	133,976	443	376	1,070	839	0	0	0
Cornell U.	4	122,684	2,101	172	104,727	5	949	528	1,611	0	9,439	3,152
New York U.	5	117,480	1,062	353	17,265	482	3,816	611	8,673	0	67,927	17,291
U. Arizona	6	98,150	152	4,192	69,503	13	11,782	396	1,764	972	8,000	1,376
U. California, Los Angeles	7	78,104	1,993	3,791	49,171	598	5,484	547	2,801	524	9,708	3,487
Massachusetts Institute of Technology	8	75,934	3,618	1,110	4,986	3	960	0	10,185	2,535	46,395	6,142
U. Southern California	9	69,646	1,079	2,109	44,514	67	2,180	1,993	5,379	0	9,607	2,718
U. Texas Southwestern Medical Center	10	63,921	0	0	63,921	0	0	0	0	0	0	0
U. Virginia, Charlottesville	11	60,793	507	240	44,375	0	1,197	261	5,094	389	1,710	7,020
U. California, Davis	12	60,449	502	1,170	47,977	133	1,269	590	1,721	6	6,480	601
U. California, Berkeley	13	57,342	0	410	11,145	424	18,838	223	2,348	5,779	14,272	3,903
U. Washington, Seattle	14	47,986	1,622	1,420	38,329	61	248	827	251	0	4,713	515
U. Pittsburgh, Pittsburgh	15	47,241	55	59	44,342	0	87	13	98	95	2,143	349
U. California, Irvine	16	46,789	3,804	590	26,353	444	2,587	2,941	2,099	232	5,869	1,870
Purdue U., West Lafayette	17	45,057	366	850	15,653	51	938	448	516	1,103	19,057	6,075
U. Wisconsin-Madison	18	35,529	314	665	20,522	0	1,107	48	1,106	1,926	4,859	4,982
Princeton U.	19	34,592	1,503	1,412	8,313	800	4,949	199	8,506	0	4,507	4,403
U. Minnesota, Twin Cities	20	32,214	584	149	29,705	10	249	211	514	21	667	104
U. Florida	21	31,190	819	20	25,909	0	568	93	452	0	2,656	673
Texas A&M U., College Station and Health Science Center	22	29,875	144	2,305	7,633	6	2,729	198	3,081	158	13,023	598
U. Kentucky	23	28,156	164	18	24,747	84	141	16	161	35	1,021	1,769
U. Colorado Boulder	24	25,047	107	974	261	114	1,177	39	273	0	20,370	1,732
Ohio State U.	25	24,919	272	130	21,844	36	343	1	102	244	1,388	559
Pennsylvania State U., University Park and Hershey Medical Center	26	24,868	5,178	435	12,898	0	2,234	2	551	0	2,357	1,213
Boston U.	27	23,588	143	37	22,626	0	69	0	247	0	309	157
Georgetown U.	28	22,195	129	0	7,212	175	426	0	7,129	0	0	7,124

TABLE 31

**Higher education R&D expenditures funded by all other sources, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
California Institute of Technology	29	22,175	877	1,657	3,291	1	3,775	0	0	0	7,796	4,778
Arizona State U.	30	20,695	167	1,790	1,049	75	93	417	5,532	5,289	2,590	3,693
Harvard U.	31	20,401	138	751	7,169	20	224	0	9,436	0	1,066	1,597
Duke U.	32	20,202	72	65	17,665	0	138	0	910	0	877	475
Rutgers, State U. New Jersey, New Brunswick	33	19,328	137	82	16,819	53	76	0	101	5	1,545	510
U. California, Santa Barbara	34	17,763	665	3,941	1,887	11	1,146	94	1,181	301	6,481	2,056
U. California, Riverside	35	17,351	1,148	640	9,629	49	1,754	287	222	693	2,879	50
West Virginia U.	36	17,239	0	296	12,814	0	32	23	288	40	1,938	1,808
U. Illinois, Urbana-Champaign	37	16,068	810	14	7,163	98	1,078	266	269	14	5,491	865
U. Nebraska, Medical Center	38	15,497	0	0	15,497	0	0	0	0	0	0	0
U. North Carolina, Chapel Hill	39	15,109	79	343	12,352	4	344	146	853	0	452	536
Icahn School of Medicine at Mount Sinai	40	14,780	0	0	14,780	0	0	0	0	0	0	0
U. Notre Dame	41	14,768	357	0	2,056	144	511	86	2,035	3,174	1,968	4,437
Oregon State U.	42	14,748	0	575	11,583	1	0	37	274	158	2,113	7
Michigan State U.	43	14,432	0	80	7,121	77	258	392	2,393	35	1,666	2,410
U. California, Santa Cruz	44	14,143	694	2,987	1,097	0	4,070	243	526	10	3,904	612
Tulane U.	45	13,437	0	0	13,260	0	0	0	61	0	0	116
U. Louisville	46	12,926	0	2	11,496	0	2	0	14	12	508	892
U. Texas Health Science Center, Houston	47	12,890	0	0	12,890	0	0	0	0	0	0	0
U. Kansas	48	12,759	153	92	11,704	2	52	216	9	26	377	128
U. Cincinnati	49	11,679	0	45	8,732	0	202	0	104	0	887	1,709
U. Nevada, Reno	50	11,598	26	3,601	5,977	0	261	55	286	928	308	156
Thomas Jefferson U.	51	11,380	0	0	11,380	0	0	0	0	0	0	0
Northwestern U.	52	10,175	0	0	7,622	0	396	13	274	67	829	974
Woods Hole Oceanographic Institution	53	10,066	0	7,479	0	0	0	0	0	0	2,587	0
U. Colorado Anschutz Medical Campus <sup>a</sup>	54	9,969	0	0	9,665	0	0	0	140	0	0	164
U. Michigan, Ann Arbor	55	9,919	0	0	4,550	55	142	4	945	0	3,963	260
U. South Florida <sup>b</sup>	56	9,646	324	237	6,612	0	185	0	227	68	98	1,895
Brandeis U.	57	9,537	130	0	829	0	308	3	4,529	0	550	3,188

TABLE 31

**Higher education R&D expenditures funded by all other sources, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
SUNY, U. Buffalo	58	9,305	72	0	9,008	0	0	20	204	0	0	1
Yale U.	59	9,192	0	0	7,764	0	5	0	498	0	571	354
South Dakota State U.	60	9,169	0	11	8,503	0	22	6	3	0	624	0
George Washington U.	61	8,952	261	66	5,919	0	0	0	1,737	61	668	240
Stanford U.	62	8,798	0	403	4,125	0	1,472	0	100	9	1,875	814
Dartmouth C. and Dartmouth Hitchcock Medical Center	63	8,054	212	2	5,962	0	292	208	523	0	776	79
New Jersey Institute of Technology	64	8,028	794	0	2,213	36	224	0	664	0	3,531	566
Auburn U., Auburn	65	7,789	146	283	3,661	1	33	1	71	118	2,528	947
U. Massachusetts, Medical School	66	7,713	0	0	7,713	0	0	0	0	0	0	0
U. Texas, Austin	67	7,678	144	372	1,333	307	351	905	1,238	100	1,166	1,762
Medical U. South Carolina	68	7,630	0	0	7,630	0	0	0	0	0	0	0
Wake Forest U.	69	7,581	0	0	7,095	0	0	0	1	0	0	485
Louisiana State U., Baton Rouge	70	7,454	0	404	5,980	7	120	32	12	0	453	446
U. Nebraska, Lincoln	71	7,355	12	52	4,487	18	125	321	55	0	1,006	1,279
Florida State U.	72	7,326	40	277	807	228	192	200	1,150	1,388	382	2,662
U. Illinois, Chicago	73	7,319	152	0	4,931	0	338	3	36	580	972	307
U. Tennessee, Health Science Center	74	6,754	0	0	5,783	0	0	0	0	971	0	0
Drexel U.	75	6,693	31	0	4,239	0	60	45	278	5	1,644	391
Colorado State U., Fort Collins	76	6,612	48	1,138	4,225	14	55	13	160	39	854	66
Johns Hopkins U. <sup>c</sup>	77	6,521	1,949	60	2,329	120	69	0	86	0	1,870	38
Van Andel Research Institute	78	6,467	0	0	6,467	0	0	0	0	0	0	0
U. Texas, El Paso	79	6,338	201	237	747	81	235	231	693	0	1,321	2,592
Temple U.	80	6,299	225	0	5,377	0	128	0	21	0	0	548
North Dakota State U.	81	6,283	0	0	4,858	3	219	10	640	84	399	70
Virginia Polytechnic Institute and State U.	82	6,082	148	116	1,250	94	26	18	118	0	4,291	21
U. Delaware	83	6,016	0	121	809	0	382	9	1,213	0	3,264	218
Utah State U.	84	5,918	173	121	4,414	61	39	128	34	0	697	251
U. Vermont	85	5,842	349	2	3,045	740	18	35	264	0	193	1,196
New Mexico State U.	86	5,662	0	154	817	0	0	0	24	1	4,428	238
George Mason U.	87	5,514	40	103	418	0	6	3	4,121	10	265	548



TABLE 31

**Higher education R&D expenditures funded by all other sources, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Medical C. Wisconsin	88	5,294	0	0	5,168	0	0	0	0	0	126	0
Marquette U.	89	5,006	19	0	1,414	21	211	26	54	0	964	2,297
U. Central Florida	90	4,978	2,244	0	592	0	675	0	372	0	933	162
U. Missouri, Columbia	91	4,947	0	0	3,654	13	9	0	287	1	16	967
U. Georgia	92	4,881	86	64	3,934	1	49	301	138	126	101	81
Catholic U. of America	93	4,880	0	0	0	0	0	0	0	0	0	4,880
U. Maryland <sup>d</sup>	94	4,815	0	633	395	0	912	6	1,104	0	1,764	1
U. Rochester	95	4,774	42	0	2,486	0	1,874	6	0	312	54	0
U. Arkansas for Medical Sciences	96	4,764	0	0	4,764	0	0	0	0	0	0	0
Iowa State U.	97	4,676	4	82	2,712	0	2	9	106	398	1,284	79
U. Pennsylvania	98	4,530	163	33	2,473	0	130	8	735	0	421	567
U. California, Merced	99	4,408	81	366	369	77	828	38	210	137	2,015	287
Wayne State U.	100	4,389	0	0	3,673	2	178	0	376	0	129	31
Rice U.	101	4,271	26	0	6	0	219	9	2,765	0	1,162	84
Colorado School of Mines	102	3,988	19	619	56	0	61	0	0	0	3,233	0
U. South Carolina, Columbia	103	3,918	0	91	122	0	164	0	43	0	72	3,426
Tufts U.	104	3,853	30	0	3,374	0	0	0	233	173	43	0
Carnegie Mellon U.	105	3,840	1,606	0	191	94	67	57	220	37	1,544	24
SUNY, Polytechnic Institute	106	3,760	0	0	0	0	0	0	0	0	3,760	0
U. Tennessee, Knoxville	107	3,742	28	38	2,122	0	281	34	117	60	971	91
U. Massachusetts, Amherst	108	3,737	1,434	0	253	39	113	9	929	208	615	137
U. Utah	109	3,626	22	4	2,612	0	198	92	382	0	212	104
Missouri U. of Science and Technology	110	3,606	0	0	2	0	81	2	0	0	2,135	1,386
U. Connecticut	111	3,605	0	0	3,382	1	0	134	0	0	73	15
Rensselaer Polytechnic Institute	112	3,596	2	0	853	0	939	257	10	0	1,439	96
U. Oklahoma, Norman and Health Science Center	113	3,394	95	451	1,602	0	75	19	149	0	962	41
Georgia Institute of Technology	114	3,344	719	0	139	0	37	0	0	0	2,448	1
Brown U.	115	3,267	728	99	1,658	41	20	12	123	104	378	104
U. Houston	116	3,172	63	599	546	0	2	2	108	9	1,843	0
Montana State U., Bozeman	117	3,103	459	43	479	13	115	0	254	56	1,361	323
SUNY, U. Albany	118	3,070	0	39	2,866	0	55	0	31	0	0	79

TABLE 31

**Higher education R&D expenditures funded by all other sources, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Mercer U.	119	3,020	0	0	0	0	0	0	0	0	3,020	0
Texas Tech U., Health Sciences Center	120	3,002	0	0	2,894	0	0	0	0	0	0	108
Vanderbilt U. and Vanderbilt U. Medical Center	121	2,800	0	87	1,475	0	110	0	89	0	166	873
U. Idaho	122	2,766	215	54	1,842	0	247	4	90	8	97	209
U. Texas, San Antonio	123	2,601	334	53	490	0	343	0	54	251	420	656
Texas A&M U.-Corpus Christi	124	2,589	0	2,518	44	1	2	0	13	0	11	0
Case Western Reserve U.	125	2,546	0	0	1,868	0	19	40	68	4	520	27
Teachers C., Columbia U.	126	2,500	1,090	0	116	0	0	83	1,211	0	0	0
Washington U., Saint Louis	127	2,400	124	0	2,170	0	0	0	7	0	21	78
Florida Atlantic U.	128	2,395	159	499	1,375	7	12	0	0	0	341	2
New School	129	2,370	0	0	11	5	0	141	1,857	0	0	356
Columbia U. in the City of New York	130	2,263	122	74	1,246	0	0	0	215	0	124	482
Georgia State U.	131	2,186	10	0	177	0	2	0	330	0	0	1,667
Worcester Polytechnic Institute	132	2,144	1,122	0	260	8	0	0	7	0	702	45
Humboldt State U.	133	2,067	37	300	751	3	9	0	187	0	646	134
SUNY, Stony Brook U.	134	2,023	152	77	1,132	76	42	37	99	0	378	30
Williams C.	135	1,991	27	50	150	90	514	44	401	1	0	714
U. Nevada, Las Vegas	136	1,900	0	71	40	0	212	9	122	0	159	1,287
Embry-Riddle Aeronautical U.	137	1,882	56	187	0	3	1,021	0	52	0	532	31
U. New Hampshire	138	1,836	0	894	183	0	0	122	517	0	68	52
Louisiana Tech U.	139	1,820	0	0	105	6	27	0	1	0	851	830
William & Mary	140	1,794	78	158	37	0	77	3	432	702	0	307
Washington State U.	141	1,768	32	25	1,080	0	19	31	122	0	318	141
U. Alabama, Birmingham	142	1,719	0	0	1,719	0	0	0	0	0	0	0
U. Alaska, Fairbanks	143	1,715	0	1,165	295	0	218	0	0	29	8	0
U.S. Military Academy	144	1,695	0	0	0	32	0	0	1,277	0	193	193
Indiana U., Bloomington	145	1,683	99	18	806	0	171	25	382	0	120	62
Emory U.	146	1,658	20	46	1,551	0	0	0	39	0	2	0
Baylor U.	147	1,588	6	239	264	0	159	0	56	0	0	864
Mississippi State U.	148	1,519	2	0	1,380	0	64	0	0	0	55	18
Albany Medical C.	149	1,456	0	0	1,456	0	0	0	0	0	0	0

TABLE 31

**Higher education R&D expenditures funded by all other sources, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Texas, Arlington	150	1,447	0	12	100	0	109	0	0	0	419	807
U. Missouri, Kansas City	151	1,420	14	0	1,057	0	18	0	0	0	124	207
SUNY, Upstate Medical U.	152	1,409	0	0	1,409	0	0	0	0	0	0	0
Rochester Institute of Technology	153	1,383	109	0	344	4	295	0	17	0	401	213
Michigan Technological U.	154	1,366	105	224	45	35	43	0	5	0	905	4
Amherst C.	155	1,295	5	338	187	5	458	5	237	0	0	60
U. Hawaii, Manoa	156	1,280	0	685	53	0	230	0	145	0	124	43
California State U., Long Beach	157	1,243	172	0	421	0	39	0	33	0	450	128
American U.	158	1,233	0	17	0	0	92	6	256	0	0	862
U. Rhode Island	159	1,229	0	53	253	0	589	15	24	66	229	0
U. New Mexico	160	1,228	1	10	801	0	21	0	89	0	255	51
Kansas State U.	161	1,219	0	0	1,087	0	0	0	0	0	132	0
Creighton U.	162	1,184	35 i	0 i	878 i	9 i	60 i	12 i	74 i	0 i	0 i	116 i
San Diego State U.	163	1,153	0	172	583	0	8	17	131	0	190	52
Desert Research Institute	164	1,144	0	1,144	0	0	0	0	0	0	0	0
U. Maryland, Baltimore County	165	1,143	104	130	40	0	295	185	93	121	106	69
California State U., Sacramento	166	1,106	79	0	0	0	0	0	18	0	316	693
North Carolina Central U.	166	1,106	0	27	209	0	254	0	76	0	466	74
Loyola U., Chicago	168	1,060	0	0	893	0	0	17	0	0	0	150
Wichita State U.	169	1,043	0	0	0	0	0	2	18	0	1,022	1
U. Wisconsin-Milwaukee	170	1,025	0	129	20	0	0	0	347	0	384	145
Western Michigan U. and Homer Stryker M.D. School of Medicine	171	1,019	0	218	45	0	51	16	150	0	498	41
U. New Orleans	172	957	0	30	0	0	103	29	242	34	100	419
U. Arkansas, Fayetteville	173	951	0	56	681	0	0	0	0	0	201	13
U. Oregon	174	929	177	36	458	0	8	0	189	0	0	61
Rockefeller U.	175	924	0	0	924	0	0	0	0	0	0	0
U. Akron	176	911	0	0	72	0	503	0	0	0	268	68
U. North Carolina, Greensboro	177	898	3	0	604	0	85	0	53	0	0	153
Yeshiva U.	178	844	0	0	844	0	0	0	0	0	0	0
Bucknell U.	179	827	0	0	131	0	22	68	10	363	90	143
U. Chicago	180	817	0	0	288	0	3	0	415	0	38	73

TABLE 31

**Higher education R&D expenditures funded by all other sources, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Boston C.	181	804	0	2	6	0	10	0	520	0	0	266
U. Maine	182	801	0	187	329	0	29	0	10	44	183	19
SUNY, Binghamton U.	183	776	222	23	29	0	41	0	43	0	320	98
SUNY, C. of Environmental Science and Forestry	184	774	0	20	749	0	0	0	0	0	0	5
U. Miami	185	749	0	10	628	0	55	18	0	17	21	0
New York Medical C.	186	736	0	0	736	0	0	0	0	0	0	0
U. South Alabama	187	731	0	39	574	0	2	68	47	0	0	1
Fordham U.	188	665	0	0	0	0	2	0	102	0	0	561
U. Massachusetts, Lowell	189	658	0	0	88	0	25	0	9	0	536	0
Illinois Institute of Technology	190	630	0	0	215	0	8	0	0	0	407	0
Claremont Graduate U.	191	629	50	0	0	0	0	41	501	0	0	37
Florida International U.	192	623	87	14	68	14	136	47	117	0	140	0
Oregon Health and Science U.	193	600	0	0	554	0	0	0	0	0	46	0
Portland State U.	193	600	0	0	12	0	69	0	16	53	396	54
U. Maryland Center for Environmental Science	195	587	0	179	359	0	4	0	0	0	0	45
CUNY, Hunter C.	196	579	1	32	413	0	0	40	64	0	0	29
CUNY, Graduate Center	197	574	0	0	0	0	0	5	493	0	0	76
Purdue U., Fort Wayne	198	572	0	0	16	1	1	0	78	105	118	253
Grand Valley State U.	199	555	0	232	222	15	5	0	70	0	1	10
Old Dominion U.	200	552	32	34	52	0	53	0	36	0	336	9
Sul Ross State U.	201	549	0	7	392	0	0	0	150	0	0	0
Purdue U., Northwest	202	540	0	0	207	0	0	0	0	0	51	282
California State U., East Bay	203	538	0	0	67	0	189	21	0	0	0	261
Tuskegee U.	204	531	0	0	0	0	0	0	531	0	0	0
U. Dayton	205	521	119	0	0	0	0	0	0	0	402	0
Winston-Salem State U.	206	515	10	0	162	0	85	0	74	0	0	184
U. Denver	207	495	0	0	0	0	0	0	0	0	0	495
U. Mississippi	208	490	0	0	207	0	0	0	0	0	11	272
U. Alabama, Huntsville	209	486	0	277	95	0	0	0	0	0	111	3
Ohio U.	210	479	0	109	80	25	3	6	2	0	207	47
U. Oklahoma, Tulsa	211	475	0	0	0	0	0	0	0	0	58	417



TABLE 31

**Higher education R&D expenditures funded by all other sources, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Norfolk State U.	243	253	0	0	0	0	0	0	0	0	245	8
East Tennessee State U.	244	250	0	0	250	0	0	0	0	0	0	0
Central Michigan U.	245	243	0	27	153	0	1	2	0	1	4	55
Southern Connecticut State U.	246	229	24	0	0	0	0	7	0	0	0	198
Texas A&M U.-Kingsville	247	226	0	0	0	0	0	0	0	0	226	0
U. North Dakota	247	226	0	0	37	0	0	9	0	0	143	37
South Dakota School of Mines and Technology	249	225	0	0	0	0	36	0	0	0	189	0
Boise State U.	250	224	0	62	152	0	0	0	0	0	10	0
Nova Southeastern U.	250	224	0	1	210	0	0	0	0	0	0	13
U. Memphis	252	211	17	0	17	0	6	4	18	0	149	0
Grinnell C.	253	207	11	0	19	0	27	4	9	0	0	137
U. Texas Rio Grande Valley	254	205	0	15	22	0	64	0	31	0	19	54
Tennessee Technological U.	255	204	16	0	0	0	0	0	0	0	188	0
Oakland U.	256	196	49	0	43	0	97	0	0	0	0	7
U. Wisconsin-Stevens Point	257	193	0	7	186	0	0	0	0	0	0	0
Bates C.	258	188	0	0	59	0	129	0	0	0	0	0
Franklin and Marshall C.	258	188	0	102	18	0	24	10	28	0	0	6
Keck Graduate Institute	260	177	0	0	139	0	0	0	0	0	20	18
Stevens Institute of Technology	260	177	0	0	0	0	0	0	0	0	177	0
Southern Methodist U.	262	176	0	0	60	58	0	0	0	0	40	18
U. Massachusetts, Dartmouth	263	175	0	154	3	0	0	0	0	0	18	0
U. Alaska, Anchorage	264	171	50	0	35	0	0	0	21	24	10	31
Indiana U.-Purdue U., Indianapolis	265	169	88	0	5	0	0	13	3	49	11	0
Kent State U.	266	168	2	0	0	0	0	28	48	0	88	2
Idaho State U.	267	167	0	0	59	0	0	0	108	0	0	0
Clemson U.	268	159	0	0	3	0	9	0	0	0	34	113
U. Colorado Denver <sup>a</sup>	269	158	0	0	22	0	0	0	0	0	0	136
CUNY, Graduate School of Public Health and Health Policy	270	156	0	0	156	0	0	0	0	0	0	0
Villanova U.	271	153	0	0	153	0	0	0	0	0	0	0
U. Washington, Tacoma	272	150	0	42	6	0	0	0	92	0	0	10

TABLE 31

**Higher education R&D expenditures funded by all other sources, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
William Paterson U.	273	147	122	0	9	0	0	0	5	0	0	11
U. Nebraska, Omaha	274	145	107	0	0	0	0	15	10	0	13	0
St. John's U., New York	275	143	4	0	104	0	0	2	0	0	0	33
U. Arkansas, Little Rock	275	143	104	0	19	0	0	0	20	0	0	0
Cleveland State U.	277	142	0	0	39	0	9	0	0	0	94	0
Loma Linda U.	278	136	0	0	136	0	0	0	0	0	0	0
U. North Texas, Health Science Center	278	136	0	0	136	0	0	0	0	0	0	0
Louisiana State U., Health Sciences Center, New Orleans	280	133	0	0	133	0	0	0	0	0	0	0
New Mexico Institute of Mining and Technology	280	133	0	131	2	0	0	0	0	0	0	0
Stephen F. Austin State U.	282	132	0	0	130	0	0	0	0	0	0	2
Carleton C.	283	118	0	0	2	0	24	0	0	0	0	92
Northern Arizona U.	283	118	0	31	48	0	0	0	0	3	11	25
SUNY, Downstate Health Sciences U.	285	115	0	0	115	0	0	0	0	0	0	0
Augusta U.	286	112	0	0	112	0	0	0	0	0	0	0
Harvey Mudd C.	286	112	8	0	15	13	31	0	0	26	16	3
Reed C.	288	111	0	0	13	2	25	13	14	0	0	44
Minnesota State U., Mankato	289	110	0	0	35	0	0	0	0	10	65	0
CUNY, C. Staten Island	290	108	0	0	13	6	10	0	5	0	18	56
U. Maryland, Eastern Shore	290	108	0	0	108	0	0	0	0	0	0	0
U. Michigan, Dearborn	290	108	0	0	0	0	0	0	0	0	108	0
CUNY, Lehman C.	293	107	76	20	0	0	0	0	4	0	0	7
U. New Haven	293	107	11	0	28	0	57	0	0	0	11	0
San Jose State U.	295	105	0	7	0	0	25	0	31	0	13	29
Lamar U.	296	104	0	0	0	0	0	0	0	0	74	30
C. Charleston	297	96	40	4	44	0	0	0	0	0	0	8
CUNY, Baruch C.	298	95	0	0	0	0	0	0	91	0	0	4
Northern Michigan U.	299	94	0	1	90	0	0	0	0	0	0	3
Davidson C.	300	92	0	0	0	0	0	22	66	0	0	4
Roseman U. of Health Sciences	301	91	0	0	0	0	0	0	0	0	0	91
U. North Carolina, Wilmington	302	88	0	3	59	0	0	0	9	0	17	0
CUNY, Queens C.	303	86	0	0	79	7	0	0	0	0	0	0

TABLE 31

**Higher education R&D expenditures funded by all other sources, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Kennesaw State U.	304	85	75	0	0	0	0	0	0	0	0	10
U. Puerto Rico, Rio Piedras	305	83	0	0	0	0	0	0	0	0	0	83
CUNY, John Jay C. of Criminal Justice	306	80	0	0	0	0	0	0	13	0	0	67
U. Puerto Rico, Mayaguez	307	77	0	0	0	0	77	0	0	0	0	0
Texas Christian U.	308	73	0	0	0	0	0	27	46	0	0	0
West Chester U. Pennsylvania	308	73	0	0	26	0	0	0	0	0	0	47
Saint Louis U.	310	71	0	3	68	0	0	0	0	0	0	0
U. North Texas, Denton	310	71	0	0	71	0	0	0	0	0	0	0
U. Nebraska, central administration	312	70	0	0	32	0	0	0	0	0	0	38
U. Washington, Bothell	313	69	69	0	0	0	0	0	0	0	0	0
Trinity U.	314	68	0	25	18	0	0	0	25	0	0	0
U. Wyoming	315	67	0	0	0	0	0	0	0	0	67	0
U. Central del Caribe	316	66	0	0	66	0	0	0	0	0	0	0
U. Southern Maine	316	66	0	0	0	0	0	0	66	0	0	0
U. Toledo	316	66	0	0	66	0	0	0	0	0	0	0
CUNY, Brooklyn C.	319	63	7	0	0	0	0	56	0	0	0	0
Rutgers, State U. New Jersey, Camden	319	63	0	0	0	0	12	11	27	0	0	13
U. Wisconsin-Superior	319	63	0	0	51	0	0	0	0	0	12	0
Wright State U.	322	62	0	0	0	0	0	0	0	0	61	1
California Polytechnic State U., San Luis Obispo	323	58	0	0	0	0	34	0	18	0	6	0
U. Texas, Tyler	323	58	0	0	38	0	0	6	0	0	14	0
Hobart and William Smith Colleges	325	57	4	3	26	0	12	0	12	0	0	0
Wesleyan U.	325	57	0	0	8	0	3	0	23	0	0	23
Hope C.	327	56	0	0	0	0	0	0	0	0	0	56
Pennsylvania State U., Harrisburg	328	55	0	0	53	0	0	0	0	0	2	0
U. North Carolina, Charlotte	328	55	1	0	0	0	0	0	0	0	53	1
U. Wisconsin-River Falls	328	55	0	0	0	0	0	4	0	0	0	51
Western Illinois U.	328	55	0	0	46	1	0	0	0	0	0	8
Eastern Washington U.	332	52	0	0	0	0	0	36	16	0	0	0
Towson U.	332	52	0	0	11	0	6	1	0	0	0	34
St. Edward's U.	334	51	0	0	10	0	0	0	0	0	0	41



TABLE 31

**Higher education R&D expenditures funded by all other sources, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Furman U.	335	50	0	32	0	0	9	0	0	0	0	9
West Texas A&M U.	335	50	0	0	47	0	0	0	0	0	0	3
U. California, Office of the President	337	49	0	0	49	0	0	0	0	0	0	0
Western Washington U.	338	48	0	0	29	0	0	5	14	0	0	0
U. Southern Mississippi	339	47	0	0	10	0	37	0	0	0	0	0
Syracuse U.	340	45	0	0	0	0	0	0	30	0	0	15
North Carolina Agricultural and Technical State U.	341	43	0	0	43	0	0	0	0	0	0	0
Fort Hays State U.	342	42	0	0	42	0	0	0	0	0	0	0
U. Tulsa	343	41	0	25	0	0	0	0	0	0	16	0
Clark U.	344	39	0	0	0	0	0	0	39	0	0	0
Mills C.	345	38	0	0	0	38	0	0	0	0	0	0
Southern Illinois U., Edwardsville	345	38	0	38	0	0	0	0	0	0	0	0
Colorado State U., Pueblo	347	37	0	0	37	0	0	0	0	0	0	0
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	347	37	0	0	37	0	0	0	0	0	0	0
Lehigh U.	349	35	0	0	0	0	0	0	0	0	35	0
Biola U.	350	31	1	0	21	0	2	0	2	0	3	2
U. Michigan, Flint	350	31	0	0	29	0	0	0	0	0	0	2
U. of Mary Washington	350	31	0	0	0	0	0	0	31	0	0	0
Albizu U.	353	30	0	0	0	0	0	30	0	0	0	0
Ithaca C.	353	30	0	0	1	0	29	0	0	0	0	0
Northern Illinois U.	353	30	0	2	0	0	0	8	0	0	19	1
SUNY, C. Brockport	356	29	0	0	29	0	0	0	0	0	0	0
Chapman U.	357	28	0	28	0	0	0	0	0	0	0	0
Long Island U.	358	26	0	0	26	0	0	0	0	0	0	0
U. North Florida	359	23	0	0	0	0	0	0	0	0	23	0
Jackson State U.	360	22	0	0	1	0	16	0	0	0	5	0
Texas A&M International U.	360	22	0	0	0	0	0	0	0	0	0	22
Sam Houston State U.	362	21	0	0	0	0	0	0	10	0	3	8
U. Massachusetts, central office	362	21	0	0	0	0	0	0	0	9	0	12
U. San Francisco	364	20	0	0	15	0	0	0	0	0	0	5



TABLE 31

**Higher education R&D expenditures funded by all other sources, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Pepperdine U.	397	5	0	0	0	0	0	0	0	0	0	5
SUNY, Buffalo State	397	5	0	0	0	0	0	0	5	0	0	0
SUNY, C. Plattsburgh	397	5	0	5	0	0	0	0	0	0	0	0
Rosalind Franklin U. of Medicine and Science	400	4	0	0	4	0	0	0	0	0	0	0
Eastern Michigan U.	401	3	0	0	0	0	0	0	0	0	0	3
U. Puerto Rico, Medical Sciences Campus	401	3	0	0	3	0	0	0	0	0	0	0
U. Wisconsin-Eau Claire	401	3	0	0	3	0	0	0	0	0	0	0
Vassar C.	401	3	0	0	0	0	0	0	3	0	0	0
Hofstra U.	405	2	0	0	0	0	0	0	2	0	0	0
Pennsylvania State U., Behrend	405	2	0	2	0	0	0	0	0	0	0	0
U. Iowa	405	2	0	0	0	0	0	0	0	0	2	0
Montana Technological U.	408	1	0	0	1	0	0	0	0	0	0	0
SUNY, C. of Optometry	408	1	0	0	1	0	0	0	0	0	0	0
U. Hawaii, Hilo	408	1	0	0	1	0	0	0	0	0	0	0

i = imputed.

nec = not elsewhere classified; S&amp;E = science and engineering.

<sup>a</sup> The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

<sup>b</sup> The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

<sup>c</sup> Johns Hopkins University includes the Applied Physics Laboratory, with \$3,237 thousand in R&D expenditures from all other sources in FY 2021.

<sup>d</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

**Note(s):**

Institutions reporting zero expenditures in ranked total for FY 2021 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2021.

TABLE 32

**Higher education R&D expenditures at historically black colleges and universities, ranked by all R&D expenditures, by source of funds: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
All HBCUs	-	549,289	396,833	54,742	76,467	7,356	10,971	2,920
Howard U.	1	52,412	35,443	1,176	12,094	2,860	839	0
Florida A&M U.	2	47,124	36,761	5,741	3,886	566	170	0
North Carolina Agricultural and Technical State U.	3	40,751	25,755	542	14,005	149	257	43
Morehouse School of Medicine	4	32,637	25,181	611	3,622	0	3,223	0
Tennessee State U.	5	26,880 i	20,378 i	455 i	5,986 i	43 i	18 i	0 i
Delaware State U.	6	23,193	16,460	2,432	4,094	195	12	0
Tuskegee U.	7	21,355	15,424	2,676	2,724	0	0	531
Morgan State U.	8	20,628	16,319	2,782	389	225	571	342
Prairie View A&M U.	9	17,582	9,566	4,041	3,421	115	439	0
Jackson State U.	10	16,157	14,038	0	1,426	198	473	22
Meharry Medical C.	11	15,840	13,784	0	565	1	1,490	0
U. of the Virgin Islands	12	15,231	13,099	1,818	17	142	155	0
Alcorn State U.	13	14,188	7,593	4,457	2,103	6	29	0
North Carolina Central U.	14	14,105	10,676	976	NA	503	844	1,106
Xavier U. Louisiana	15	12,799	11,213	709	702	0	175	0
Hampton U.	16	11,669	11,517	0	152	0	0	0
Virginia State U.	17	10,123	4,846	2,278	2,602	0	397	0
Texas Southern U.	18	9,128	5,562	760	2,692	0	114	0
Alabama A&M U.	19	9,065 i	5,967 i	2,534 i	447 i	117 i	0 i	0 i
Clark Atlanta U.	20	8,892	5,355	0	3,435	57	45	0
Kentucky State U.	21	8,756	3,716	4,870	0	72	98	0
Central State U.	22	8,751	4,165	2,866	1,720	0	0	0
U. Arkansas, Pine Bluff	23	8,713	3,960	2,216	2,502	0	35	0
U. Maryland, Eastern Shore	24	8,636	8,346	153	10	19	0	108
Winston-Salem State U.	25	8,123	4,841	1,690	NA	0	1,077	515
U. of the District of Columbia	26	8,104	6,851	1,253	0	0	0	0
Lincoln U., Jefferson City	27	7,621	5,621	2,000	NA	0	0	0
West Virginia State U.	28	6,565	4,119	1,566	877	0	3	0
Langston U.	29	6,345	3,089	2	2,645	609	0	0
Southern U. and A&M C., Agricultural Research and Extension Center	30	6,164	3,588	2,556	20	0	0	0
Southern U. and A&M C., Baton Rouge	31	4,943	3,770	95	374	704	0	0
Fort Valley State U.	32	4,842	4,429	42	371	0	0	0
Morehouse C.	33	4,533	4,533	0	0	0	0	0

TABLE 32

**Higher education R&D expenditures at historically black colleges and universities, ranked by all R&D expenditures, by source of funds: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Fisk U.	34	4,320	3,940	24	0	0	356	0
Norfolk State U.	35	4,316	3,976	0	0	52	35	253
Fayetteville State U.	36	3,933	1,988	519	1,238	128	60	0
South Carolina State U.	36	3,933 i	3,933 i	NA	NA	NA	NA	NA
Alabama State U.	38	2,631	2,338	0	0	287	6	0
Dillard U.	39	2,528	1,257	0	1,271	0	0	0
Johnson C. Smith U.	40	2,461 i	2,365 i	52 i	0 i	4 i	40 i	0 i
Spelman C.	41	2,282	1,886	0	279	117	0	0
Grambling State U.	42	2,124	731	595	798	0	0	0
Tougaloo C.	43	2,092 i	2,092 i	0 i	0 i	0 i	0 i	0 i
Savannah State U.	44	1,804	1,804	0	0	0	0	0
Elizabeth City State U.	45	1,717	1,603	52	NA	62	0	0
Bowie State U.	46	1,398	1,398	0	0	0	0	0
Clafin U.	47	1,015	1,005	0	0	0	10	0
Albany State U.	48	880	552	203	0	125	0	0

i = imputed. NA = not available; data were not provided by institution.

HBCUs = historically black colleges and universities.

**Note(s):**

Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2021.

TABLE 33

**Higher education R&D expenditures at historically black colleges and universities, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
All HBCUs	-	549,289	14,383	25,515	310,027	6,443	52,735	6,323	20,135	1,952	66,548	45,228
Howard U.	1	52,412	1,747	289	30,787	198	5,720	2,214	952	0	9,535	970
Florida A&M U.	2	47,124	16	5,633	23,507	4	1,346	212	5	0	5,222	11,179
North Carolina Agricultural and Technical State U.	3	40,751	1,227	0	20,086	797	1,158	236	69	0	11,616	5,562
Morehouse School of Medicine	4	32,637	0	0	32,637	0	0	0	0	0	0	0
Tennessee State U.	5	26,880 i	454 i	314 i	21,260 i	116 i	435 i	259 i	509 i	0 i	3,062 i	471 i
Delaware State U.	6	23,193	334	377	14,196	3	2,304	1,144	528	0	308	3,999
Tuskegee U.	7	21,355	463	0	8,136	1,146	169	0	5,828	85	5,528	0
Morgan State U.	8	20,628	660	3,298	5,810	146	774	9	160	0	8,031	1,740
Prairie View A&M U.	9	17,582	188	0	8,187	81	1,348	292	17	67	4,687	2,715
Jackson State U.	10	16,157	662	2	3,183	44	8,231	174	73	217	2,236	1,335
Meharry Medical C.	11	15,840	0	0	15,840	0	0	0	0	0	0	0
U. of the Virgin Islands	12	15,231	90	6,508	6,045	439	1,069	0	248	0	832	0
Alcorn State U.	13	14,188	0	0	6,826	0	0	0	7,181	0	181	0
North Carolina Central U.	14	14,105	157	294	6,109	0	3,257	0	250	0	1,773	2,265
Xavier U. Louisiana	15	12,799	652	0	3,511	0	8,440	0	0	0	57	139
Hampton U.	16	11,669	994	2,881	1,685	344	3,409	0	1,041	0	827	488
Virginia State U.	17	10,123	0	8	7,191	217	0	95	0	0	1,273	1,339
Texas Southern U.	18	9,128	136	79	5,033	167	1,168	425	845	0	27	1,248
Alabama A&M U.	19	9,065 i	307 i	0 i	5,357 i	74 i	627 i	171 i	283 i	0 i	1,714 i	532 i
Clark Atlanta U.	20	8,892	160	0	6,614	286	1,616	0	0	0	36	180
Kentucky State U.	21	8,756	15	2	8,546	193	0	0	0	0	0	0
Central State U.	22	8,751	0	102	8,134	69	67	0	0	168	211	0
U. Arkansas, Pine Bluff	23	8,713	0	0	6,852	3	1,175	0	0	683	0	0
U. Maryland, Eastern Shore	24	8,636	0	4,182	4,310	0	0	0	0	0	144	0
Winston-Salem State U.	25	8,123	590	0	3,530	0	956	356	1,458	0	0	1,233
U. of the District of Columbia	26	8,104	242	177	3,054	447	0	0	0	0	3,134	1,050
Lincoln U., Jefferson City	27	7,621	6	60	7,345	90	0	0	120	0	0	0
West Virginia State U.	28	6,565	2	0	6,436	0	0	0	0	0	0	127
Langston U.	29	6,345	0	0	6,062	0	28	0	0	0	0	255
Southern U. and A&M C., Agricultural Research and Extension Center	30	6,164	0	0	6,164	0	0	0	0	0	0	0

TABLE 33

**Higher education R&D expenditures at historically black colleges and universities, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Southern U. and A&M C., Baton Rouge	31	4,943	473	0	492	68	583	0	1	0	2,282	1,044
Fort Valley State U.	32	4,842	42	82	4,620	22	76	0	0	0	0	0
Morehouse C.	33	4,533	540	0	90	949	1,831	59	0	633	0	431
Fisk U.	34	4,320	415	0	1,601	415	1,645	60	7	0	0	177
Norfolk State U.	35	4,316	1,957	0	88	29	763	0	58	0	1,413	8
Fayetteville State U.	36	3,933	584	0	960	0	147	0	293	0	288	1,661
South Carolina State U.	36	3,933 i	108 i	0 i	1,416 i	0 i	1,000 i	0 i	0 i	0 i	712 i	697 i
Alabama State U.	38	2,631	0	0	2,265	0	0	0	0	0	366	0
Dillard U.	39	2,528	0	87	1,356	0	252	0	38	0	0	795
Johnson C. Smith U.	40	2,461 i	12 i	0 i	437 i	0 i	318 i	0 i	0 i	0 i	386 i	1,308 i
Spelman C.	41	2,282	13	0	633	96	523	568	53	0	0	396
Grambling State U.	42	2,124	0	0	0	0	1,238	0	0	0	0	886
Tougaloo C.	43	2,092 i	0 i	0 i	1,733 i	0 i	359 i	0 i	0 i	0 i	0 i	0 i
Savannah State U.	44	1,804	0	815	268	0	34	0	0	99	588	0
Elizabeth City State U.	45	1,717	518	0	752	0	0	49	0	0	0	398
Bowie State U.	46	1,398	446	0	96	0	438	0	0	0	0	418
Clafin U.	47	1,015	173	26	515	0	129	0	107	0	65	0
Albany State U.	48	880	0	299	272	0	102	0	11	0	14	182

i = imputed.

HBCUs = historically black colleges and universities; nec = not elsewhere classified; S&amp;E = science and engineering.

**Note(s):**

Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2021.

TABLE 34

**Higher education R&D expenditures at high-Hispanic-enrollment institutions, ranked by all R&D expenditures, by source of funds: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
All HHE institutions	-	8,769,616	4,008,704	967,419	2,457,671	514,138	411,184	410,500
Texas A&M U., College Station and Health Science Center	1	1,147,720	528,057	198,483	313,192	32,978	45,135	29,875
U. Texas M. D. Anderson Cancer Center	2	1,124,971	217,073	293,325	233,279	211,849	32,741	136,704
U. Texas, Austin	3	779,348	489,827	30,336	139,669	68,580	43,258	7,678
U. Arizona	4	770,031	353,117	28,604	234,514	24,601	31,045	98,150
U. California, Irvine	5	523,752	255,010	15,891	130,928	40,622	34,512	46,789
U. Illinois, Chicago	6	429,585	237,949	8,027	137,227	13,998	25,065	7,319
U. New Mexico	7	332,566	242,212	8,359	62,426	4,253	14,088	1,228
Florida International U.	8	246,075	105,309	19,445	111,950	2,311	6,437	623
U. Texas Health Science Center, San Antonio	9	219,734	106,824	25,110	51,848	10,085	25,548	319
U. Central Florida	10	218,596	109,310	11,703	76,091	11,489	5,025	4,978
U. Houston	11	202,536	77,489	35,530	71,291	7,745	7,309	3,172
Texas Tech U.	12	197,739	33,938	27,357	108,999	12,221	14,929	295
U. California, Riverside	13	189,600	97,182	11,424	49,131	6,809	7,703	17,351
U. Texas Medical Branch	14	185,759	117,915	7,739	39,565	8,424	12,116	0
U. California, Santa Cruz	15	160,615	86,263	4,943	31,668	7,273	16,325	14,143
U. Texas, San Antonio	16	145,362	42,952	17,629	67,130	5,196	9,854	2,601
U. Texas, Arlington	17	126,477	46,946	19,262	49,685	3,006	6,131	1,447
New Mexico State U.	18	110,580	64,699	22,094	13,581	2,562	1,982	5,662
U. Texas, El Paso	19	109,410	43,930	19,841	34,866	994	3,441	6,338
San Diego State U.	20	107,681	43,473	4,107	56,085	523	2,340	1,153
Rush U.	21	107,398	73,279	1,338	9,645	15,329	7,807	0
U. Nevada, Las Vegas	22	101,009	27,178	2,902	67,657	905	467	1,900
U. North Texas, Denton	23	81,252	18,702	5,567	53,591	1,992	1,329	71
Texas State U.	24	72,510	31,116	3,949	31,792	765	4,888	0
Northern Arizona U.	25	69,129	41,744	10,179	14,963	839	1,286	118
San Jose State U.	26	60,100	30,877	7,617	19,350	1,080	1,071	105
Florida Atlantic U.	27	58,471	28,510	5,852	13,984	2,762	4,968	2,395
U. Texas Rio Grande Valley	28	58,187	13,018	6,945	29,053	265	8,701	205
CUNY, City C.	29	57,361	34,218	9,824	11,311	691	1,045	272
U. California, Merced	30	45,964	18,621	7,048	14,224	373	1,290	4,408
U. Puerto Rico, Medical Sciences Campus	31	44,111	33,262	1,838	6,320	2,688	0	3
Texas Tech U., Health Sciences Center	32	41,583	12,148	16,670	8,153	342	1,268	3,002
San Francisco State U.	33	35,768	15,993	2,305	16,710	0	743	17



TABLE 34

**Higher education R&D expenditures at high-Hispanic-enrollment institutions, ranked by all R&D expenditures, by source of funds: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
CUNY, Hunter C.	34	33,816	23,166	2,359	7,156	85	471	579
Texas A&M U.-Corpus Christi	35	30,500	10,967	9,110	4,589	603	2,642	2,589
U. Puerto Rico, Rio Piedras	36	28,896	15,108	150	13,026	181	348	83
New Mexico Institute of Mining and Technology	37	28,745	24,900	631	1,654	1,236	191	133
Nova Southeastern U.	38	24,513	10,386	3,636	9,152	486	629	224
Rutgers, State U. New Jersey, Newark	39	23,854	16,281	573	5,723	8	879	390
California State U., Sacramento	40	23,699	5,582	11,012	5,344	147	508	1,106
Texas A&M U.-Kingsville	41	23,578	9,265	4,652	3,614	353	5,468	226
Ponce Health Sciences U.	42	23,297	18,284	685	2,472	1,683	173	0
California State U., East Bay	43	20,108	9,275	1,443	7,470	1,033	349	538
U. Puerto Rico, Mayaguez	44	18,368	13,073	33	5,148	37	0	77
Montclair State U.	45	17,390	4,146	543	10,479	41	2,163	18
California State U., Northridge	46	16,573	13,989	353	1,051	81	1,099	0
CUNY, Queens C.	47	16,063	12,386	1,241	1,776	149	425	86
California State U., Long Beach	48	15,134	11,178	877	1,113	195	528	1,243
Humboldt State U.	49	14,103	1,975	3,971	3,818	164	2,108	2,067
Loma Linda U.	50	14,029	10,116	444	1,932	241	1,160	136
Sam Houston State U.	51	13,315	5,632	232	6,985	29	416	21
Charles R. Drew U. of Medicine and Science	52	13,228	9,945	151	2,834	0	298	0
CUNY, John Jay C. of Criminal Justice	53	11,791	3,519	3,037	2,521	37	2,597	80
California State U., San Bernardino	54	11,607	5,867	2,928	2,652	20	140	0
Texas Tech U., Health Sciences Center, El Paso	55	11,360	1,831	2,829	6,064	395	241	0
Rhode Island C.	56	10,990	4,894	5,593	64	0	439	0
California State U., San Marcos	57	10,213	8,831	1,110	267	0	5	0
West Texas A&M U.	58	9,920	2,195	5,258	1,554	832	31	50
St. Edward's U.	59	9,527	7,600	800	1,030	15	31	51
California State U., Los Angeles	60	9,382	7,342	108	1,561	0	371	0
California State U., Fresno	61	9,213	4,101	1,086	2,278	186	1,232	330
California State U., Fullerton	62	9,006	4,551	251	3,904	97	203	0
William Paterson U.	63	7,867	1,893	25	5,678	11	113	147
California State Polytechnic U., Pomona	64	7,011	4,396	846	1,469	141	159	0
California State U., Monterey Bay	65	6,882	3,813	1,277	1,610	3	172	7
California State U., Bakersfield	66	6,253	3,827	215	2,160	0	51	0
Azusa Pacific U.	67	5,318	212	59	4,893	2	152	0

TABLE 34

**Higher education R&D expenditures at high-Hispanic-enrollment institutions, ranked by all R&D expenditures, by source of funds: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Texas Woman's U.	68	4,943	1,514	1,853	893	75	608	0
CUNY, Graduate Center	69	4,265	2,496	128	87	0	980	574
California State U., Chico	70	4,209	2,258	792	505	69	128	457
CUNY, Lehman C.	71	4,181	3,382	0	419	171	102	107
U. Central del Caribe	72	3,831	2,492	223	1,050	0	0	66
Texas A&M International U.	73	3,740	1,243	797	965	85	628	22
Kean U.	74	3,538	362	318	2,783	70	5	0
U. Texas of the Permian Basin	75	3,504	1,762	460	522	54	706	0
Colorado State U., Pueblo	76	2,990	1,508	1,244	201	0	0	37
Sonoma State U.	77	2,957	2,212	366	261	69	49	0
CUNY, C. Staten Island	78	2,860	2,234	165	277	0	76	108
California State U., Dominguez Hills	79	2,690	2,001	19	670	0	0	0
California State U., Channel Islands	80	2,341	993	611	542	186	9	0
Marymount U.	81	2,307	337	125	1,779	0	66	0
Sul Ross State U.	82	2,143 i	505 i	130 i	123 i	26 i	810 i	549 i
California State U., Stanislaus	83	2,085	1,354	104	112	504	11	0
U. of the Incarnate Word	84	1,982	1,076	0	785	83	38	0
Northeastern Illinois U.	85	1,913	1,913	0	0	0	0	0
U. Puerto Rico, Cayey	86	1,881	1,202	0	539	11	129	0
Manhattan C.	87	1,864	397	505	406	556	0	0
U. Houston-Downtown	88	1,828	1,169	72	215	0	372	0
U. Houston-Clear Lake	89	1,716	865	620	80	107	44	0
U. Ana G. Mendez, Gurabo	90	1,574	926	0	648	0	0	0
La Sierra U.	91	1,517	812	0	137	0	568	0
CUNY, New York City C. of Technology	92	1,367	1,197	0	129	31	0	10
U. Puerto Rico, Humacao	93	1,321	1,137	0	184	0	0	0
CUNY, York C.	94	1,133	922	0	168	0	43	0
New Mexico Highlands U.	95	1,129 i	1,085 i	0 i	0 i	0 i	44 i	0 i
Mills C.	96	850	683	0	0	0	129	38
Albizu U.	97	428	0	126	272	0	0	30

i = imputed.

HHE = high Hispanic enrollment.

**Note(s):**

HHE institutions are those whose full-time equivalent (FTE) undergraduate student enrollment is at least 25% Hispanic, according to fall 2020 data in the Integrated Postsecondary Education Data System, directed by the National Center for Education Statistics. FTE enrollment is calculated as full-time undergraduate student enrollment plus one-third of part-time undergraduate student enrollment. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2021.

TABLE 35

**Higher education R&D expenditures at high-Hispanic-enrollment institutions, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
All HHE institutions	-	8,769,616	313,102	413,175	4,464,246	105,010	728,365	224,644	245,513	79,110	1,503,110	693,341
Texas A&M U., College Station and Health Science Center	1	1,147,720	19,178	106,932	487,219	6,729	56,029	6,546	28,965	10,943	385,656	39,523
U. Texas M. D. Anderson Cancer Center	2	1,124,971	0	0	1,056,727	18,914	17,572	17,939	13,819	0	0	0
U. Texas, Austin	3	779,348	87,595	54,009	148,471	17,349	85,250	10,293	23,660	2,806	279,730	70,185
U. Arizona	4	770,031	16,503	32,088	447,584	3,347	140,655	4,255	18,628	6,158	72,158	28,655
U. California, Irvine	5	523,752	23,444	13,034	315,900	6,314	38,794	10,898	12,606	1,036	65,454	36,272
U. Illinois, Chicago	6	429,585	12,103	943	324,053	4,021	17,718	2,928	8,351	6,112	35,675	17,681
U. New Mexico	7	332,566	3,657	6,727	243,730	1,229	7,087	6,321	10,544	6,770	41,317	5,184
Florida International U.	8	246,075	16,708	16,584	55,462	1,915	27,997	34,345	19,172	1,950	41,740	30,202
U. Texas Health Science Center, San Antonio	9	219,734	0	0	219,734	0	0	0	0	0	0	0
U. Central Florida	10	218,596	32,242	3,951	30,876	3,269	37,144	9,231	6,935	893	57,620	36,435
U. Houston	11	202,536	4,352	9,292	34,322	3,497	52,230	13,601	2,404	1,590	56,555	24,693
Texas Tech U.	12	197,739	4,274	9,282	55,930	3,678	15,784	8,762	11,235	0	41,962	46,832
U. California, Riverside	13	189,600	8,295	10,303	98,539	1,994	17,559	3,791	5,224	2,821	34,888	6,186
U. Texas Medical Branch	14	185,759	0	0	184,500	0	0	0	0	0	1,259	0
U. California, Santa Cruz	15	160,615	5,128	31,217	28,302	156	35,606	868	5,411	575	49,576	3,776
U. Texas, San Antonio	16	145,362	19,203	3,429	26,419	1,554	11,547	2,835	9,393	2,153	21,499	47,330
U. Texas, Arlington	17	126,477	6,865	867	19,246	2,350	16,864	1,568	79	0	58,154	20,484
New Mexico State U.	18	110,580	4,043	5,067	48,808	116	20,108	422	570	502	29,884	1,060
U. Texas, El Paso	19	109,410	6,234	3,757	23,452	2,412	9,092	4,407	4,964	5,975	26,599	22,518
San Diego State U.	20	107,681	1,439	2,158	31,479	3,883	6,681	18,729	4,876	6,322	10,715	21,399
Rush U.	21	107,398	0	0	104,999	0	0	2,399	0	0	0	0
U. Nevada, Las Vegas	22	101,009	1,015	6,082	32,306	2,624	10,589	3,738	6,536	558	10,667	26,894
U. North Texas, Denton	23	81,252	7,269	1,879	13,582	237	8,710	2,719	4,057	0	18,285	24,514
Texas State U.	24	72,510	1,200	7,338	11,708	1,057	3,421	272	4,437	1,759	9,321	31,997
Northern Arizona U.	25	69,129	4,037	6,790	41,082	0	8,120	396	167	469	6,497	1,571
San Jose State U.	26	60,100	297	14,857	3,655	751	3,437	18,930	2,940	0	3,664	11,569
Florida Atlantic U.	27	58,471	2,479	2,013	27,748	1,026	2,726	1,771	153	0	17,064	3,491
U. Texas Rio Grande Valley	28	58,187	1,581	1,649	28,556	2,194	4,338	1,181	3,534	63	5,354	9,737
CUNY, City C.	29	57,361	778	1,600	9,192	158	8,709	15	16	0	34,710	2,183

TABLE 35

**Higher education R&D expenditures at high-Hispanic-enrollment institutions, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. California, Merced	30	45,964	1,134	3,849	9,742	2,139	5,753	424	1,816	1,156	13,854	6,097
U. Puerto Rico, Medical Sciences Campus	31	44,111	0	265	43,846	0	0	0	0	0	0	0
Texas Tech U., Health Sciences Center	32	41,583	0	0	40,567	0	0	0	0	0	0	1,016
San Francisco State U.	33	35,768	1,579	3,975	13,143	1,326	3,418	1,617	3,892	1,546	2,386	2,886
CUNY, Hunter C.	34	33,816	1,395	1,010	7,852	217	5,489	12,382	2,509	0	0	2,962
Texas A&M U.-Corpus Christi	35	30,500	313	12,296	5,422	6	1,089	0	464	890	6,590	3,430
U. Puerto Rico, Rio Piedras	36	28,896	604	3,409	4,283	178	4,886	7	1,185	4,093	1,152	9,099
New Mexico Institute of Mining and Technology	37	28,745	6,732	7,309	290	3	1,151	0	0	0	13,002	258
Nova Southeastern U.	38	24,513	32	10,973	12,827	0	0	353	0	0	0	328
Rutgers, State U. New Jersey, Newark	39	23,854	2,013	1,873	11,845	0	2,667	1,139	672	43	0	3,602
California State U., Sacramento	40	23,699	340	752	1,446	116	238	330	6,544	4,320	5,986	3,627
Texas A&M U.-Kingsville	41	23,578	12	0	16,283	0	213	51	0	99	4,622	2,298
Ponce Health Sciences U.	42	23,297	0	0	22,009	0	0	1,288	0	0	0	0
California State U., East Bay	43	20,108	264	1,493	1,762	482	2,441	465	3,331	29	1,024	8,817
U. Puerto Rico, Mayaguez	44	18,368	0	2,014	1,729	87	1,002	0	93	0	11,397	2,046
Montclair State U.	45	17,390	314	1,815	3,231	785	737	3,099	1,378	7	104	5,920
California State U., Northridge	46	16,573	380	731	4,020	685	7,447	255	393	93	1,216	1,353
CUNY, Queens C.	47	16,063	294	402	10,421	251	1,815	1,082	579	102	0	1,117
California State U., Long Beach	48	15,134	271	226	3,700	446	2,723	1,431	645	194	4,574	924
Humboldt State U.	49	14,103	85	1,141	5,303	8	90	4	1,385	69	5,564	454
Loma Linda U.	50	14,029	0	0	13,191	0	0	597	0	0	0	241
Sam Houston State U.	51	13,315	26	124	2,688	444	503	631	1,970	0	36	6,893
Charles R. Drew U. of Medicine and Science	52	13,228	0	0	13,228	0	0	0	0	0	0	0
CUNY, John Jay C. of Criminal Justice	53	11,791	16	0	48	12	235	933	569	95	0	9,883
California State U., San Bernardino	54	11,607	228	51	1,016	466	1,992	2,299	208	357	1,382	3,608
Texas Tech U., Health Sciences Center, El Paso	55	11,360	0	0	10,555	0	0	0	0	0	0	805
Rhode Island C.	56	10,990	24	0	1,157	0	320	115	13	0	0	9,361

TABLE 35

**Higher education R&D expenditures at high-Hispanic-enrollment institutions, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
California State U., San Marcos	57	10,213	620	13	1,120	0	1,063	1,150	680	2,892	1,682	993
West Texas A&M U.	58	9,920	301	688	6,240	1	200	0	0	184	1,400	906
St. Edward's U.	59	9,527	1,050	478	1,445	645	1,101	20	50	0	0	4,738
California State U., Los Angeles	60	9,382	218	23	740	26	5,165	103	1,131	0	1,486	490
California State U., Fresno	61	9,213	141	379	4,197	490	1,307	116	165	199	1,290	929
California State U., Fullerton	62	9,006	200	229	2,507	212	1,343	272	342	597	661	2,643
William Paterson U.	63	7,867	178	487	1,051	68	140	485	1,591	0	0	3,867
California State Polytechnic U., Pomona	64	7,011	360	151	3,557	20	1,150	19	9	96	1,516	133
California State U., Monterey Bay	65	6,882	1,298	1,953	3,452	12	57	0	47	25	0	38
California State U., Bakersfield	66	6,253	0	134	197	2,321	447	524	146	0	839	1,645
Azusa Pacific U.	67	5,318	92	0	1,022	125	207	844	171	0	5	2,852
Texas Woman's U.	68	4,943	11	0	3,053	1	7	695	83	0	0	1,093
CUNY, Graduate Center	69	4,265	22	0	110	332	547	682	1,325	328	6	913
California State U., Chico	70	4,209	0	426	1,522	41	172	0	237	0	1,236	575
CUNY, Lehman C.	71	4,181	81	20	249	343	2,062	0	213	0	0	1,213
U. Central del Caribe	72	3,831	0	0	3,831	0	0	0	0	0	0	0
Texas A&M International U.	73	3,740	0	39	216	91	154	53	914	628	241	1,404
Kean U.	74	3,538	229	61	56	0	18	16	0	13	0	3,145
U. Texas of the Permian Basin	75	3,504	0	0	983	0	30	23	380	60	792	1,236
Colorado State U., Pueblo	76	2,990	190	0	1,845	19	8	27	6	0	64	831
Sonoma State U.	77	2,957	12	1,617	585	235	289	58	51	30	1	79
CUNY, C. Staten Island	78	2,860	54	0	1,109	391	525	352	21	0	274	134
California State U., Dominguez Hills	79	2,690	620	8	140	125	418	360	314	0	0	705
California State U., Channel Islands	80	2,341	22	0	1,001	348	301	4	22	485	79	79
Marymount U.	81	2,307	655	0	624	0	88	89	356	0	0	495
Sul Ross State U.	82	2,143	0	22	1,654	1	0	0	466	0	0	0
California State U., Stanislaus	83	2,085	186	13	1,232	253	84	218	70	0	0	29
U. of the Incarnate Word	84	1,982	0	0	1,369	42	298	0	0	0	186	87
Northeastern Illinois U.	85	1,913	46	68	1,111	71	34	0	40	0	0	543
U. Puerto Rico, Cayey	86	1,881	0	0	563	0	127	0	171	1,020	0	0
Manhattan C.	87	1,864	0	0	49	239	112	0	0	0	1,122	342

TABLE 35

**Higher education R&D expenditures at high-Hispanic-enrollment institutions, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Houston-Downtown	88	1,828	194	52	25	19	382	0	128	5	189	834
U. Houston-Clear Lake	89	1,716	34	0	942	0	236	136	51	0	0	317
U. Ana G. Mendez, Gurabo	90	1,574	0	0	293	14	142	39	0	0	1,034	52
La Sierra U.	91	1,517	0	0	5	0	1	0	0	0	0	1,511
CUNY, New York City C. of Technology	92	1,367	172	0	362	50	331	0	11	0	103	338
U. Puerto Rico, Humacao	93	1,321	0	17	111	0	1,083	110	0	0	0	0
CUNY, York C.	94	1,133	0	543	142	12	192	159	0	0	12	73
New Mexico Highlands U.	95	1,129 i	141 i	198 i	222 i	0 i	568 i	0 i	0 i	0 i	0 i	0 i
Mills C.	96	850	0	0	129	38	0	0	0	0	0	683
Albizu U.	97	428	0	0	0	0	0	428	0	0	0	0

i = imputed.

HHE = high Hispanic enrollment; nec = not elsewhere classified; S&amp;E = science and engineering.

**Note(s):**

HHE institutions are those whose full-time equivalent (FTE) undergraduate student enrollment is at least 25% Hispanic, according to fall 2020 data in the Integrated Postsecondary Education Data System, directed by the National Center for Education Statistics. FTE enrollment is calculated as full-time undergraduate student enrollment plus one-third of part-time undergraduate student enrollment. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2021.

TABLE 36

**Higher education R&D expenditures at all institutions, ranked by all non-medical school R&D expenditures: FY 2021**

(Dollars in thousands)

Institution	Rank	All non-medical school R&D expenditures	All medical school R&D expenditures	All R&D expenditures
All institutions	-	56,585,810	33,137,637	89,723,447
Johns Hopkins U. <sup>a</sup>	1	2,426,972	754,413	3,181,385
U. Texas M. D. Anderson Cancer Center	2	1,124,971	0	1,124,971
Georgia Institute of Technology	3	1,114,481	0	1,114,481
Texas A&M U., College Station and Health Science Center	4	1,104,222	43,498	1,147,720
U. Michigan, Ann Arbor	5	979,584	660,061	1,639,645
Massachusetts Institute of Technology	6	949,076	0	949,076
U. Wisconsin-Madison	7	900,671	479,404	1,380,075
Harvard U.	8	854,352	399,656	1,254,008
U. California, San Diego	9	850,929	574,570	1,425,499
U. California, Berkeley	10	846,872	0	846,872
Pennsylvania State U., University Park and Hershey Medical Center	11	842,977	127,567	970,544
U. Texas, Austin	12	742,855	36,493	779,348
U. Illinois, Urbana-Champaign	13	730,977	291	731,268
U. Minnesota, Twin Cities	14	728,259	344,702	1,072,961
U. Washington, Seattle	15	725,280	763,365	1,488,645
Purdue U., West Lafayette	16	679,482	0	679,482
Arizona State U.	17	677,303	0	677,303
Cornell U.	18	671,448	512,076	1,183,524
U. Maryland <sup>b</sup>	19	670,415	471,849	1,142,264
Michigan State U.	20	624,677	85,501	710,178
U. California, Davis	21	592,062	225,347	817,409
U. Colorado Boulder	22	547,724	0	547,724
North Carolina State U.	23	547,118	0	547,118
U. Florida	24	546,549	413,416	959,965
Virginia Polytechnic Institute and State U.	25	542,045	0	542,045
U. Pennsylvania	26	530,053	1,101,897	1,631,950
Ohio State U.	27	520,961	715,150	1,236,111
U. California, Los Angeles	28	518,446	936,434	1,454,880
Columbia U. in the City of New York	29	509,640	588,930	1,098,570
U. Arizona	30	508,950	261,081	770,031
U. North Carolina, Chapel Hill	31	505,641	700,242	1,205,883
U. Georgia	32	493,944	0	493,944
Vanderbilt U. and Vanderbilt U. Medical Center	33	491,859	527,414	1,019,273



TABLE 36

**Higher education R&D expenditures at all institutions, ranked by all non-medical school R&D expenditures: FY 2021**

(Dollars in thousands)

Institution	Rank	All non-medical school R&D expenditures	All medical school R&D expenditures	All R&D expenditures
Scripps Research Institute	34	485,435	0	485,435
SUNY, Polytechnic Institute	35	465,273	0	465,273
Boston U.	36	458,491	193,605	652,096
Colorado State U., Fort Collins	37	447,197	0	447,197
California Institute of Technology	38	438,624	0	438,624
U. Southern California	39	428,774	526,791	955,565
U. Utah	40	406,979	217,758	624,737
Princeton U.	41	404,448	0	404,448
Carnegie Mellon U.	42	402,376	0	402,376
Stanford U.	43	400,435	874,048	1,274,483
Iowa State U.	44	360,275	0	360,275
New York U.	45	360,158	703,546	1,063,704
Rockefeller U.	46	357,543	0	357,543
Washington State U.	47	348,178	9,470	357,648
U. California, Irvine	48	341,539	182,213	523,752
U. Missouri, Columbia	49	328,583	60,196	388,779
Rutgers, State U. New Jersey, New Brunswick	50	328,201	315,754	643,955
Utah State U.	51	325,223	0	325,223
U. Tennessee, Knoxville	52	316,273	0	316,273
Emory U.	53	309,975	542,947	852,922
U. Nebraska, Lincoln	54	307,083	0	307,083
Florida State U.	55	302,660	25,944	328,604
U. Pittsburgh, Pittsburgh	56	302,182	833,234	1,135,416
U. Virginia, Charlottesville	57	298,495	312,818	611,313
Louisiana State U., Baton Rouge	58	296,673	0	296,673
Oregon State U.	59	276,955	0	276,955
Mississippi State U.	60	275,143	0	275,143
Auburn U., Auburn	61	266,374	0	266,374
Woods Hole Oceanographic Institution	62	262,048	0	262,048
U. Kentucky	63	260,265	168,976	429,241
U. Oklahoma, Norman and Health Science Center	64	254,760	125,288	380,048
SUNY, U. Buffalo	65	251,415	173,934	425,349
U. South Florida <sup>c</sup>	66	248,980	156,108	405,088
U. California, Santa Barbara	67	248,961	0	248,961
U. Hawaii, Manoa	68	241,188	30,580	271,768

TABLE 36

**Higher education R&D expenditures at all institutions, ranked by all non-medical school R&D expenditures: FY 2021**

(Dollars in thousands)

Institution	Rank	All non-medical school R&D expenditures	All medical school R&D expenditures	All R&D expenditures
U. Notre Dame	69	240,324	0	240,324
Clemson U.	70	237,485	0	237,485
U. Iowa	71	236,925	316,951	553,876
Indiana U., Bloomington	72	236,812	458,446	695,258
Duke U.	73	235,997	1,001,689	1,237,686
U. Delaware	74	231,532	0	231,532
Florida International U.	75	230,097	15,978	246,075
U. Kansas	76	226,381	159,256	385,637
Northwestern U.	77	225,075	688,103	913,178
U. California, San Francisco	78	223,418	1,486,618	1,710,036
U. Illinois, Chicago	79	221,452	208,133	429,585
George Mason U.	80	214,207	0	214,207
U. Massachusetts, Amherst	81	213,824	0	213,824
U. Central Florida	82	212,265	6,331	218,596
Northeastern U.	83	211,342	0	211,342
Rice U.	84	207,404	0	207,404
Georgia State U.	85	206,472	0	206,472
George Washington U.	86	204,797	61,311	266,108
Kansas State U.	87	203,846	0	203,846
U. Houston	88	201,821	715	202,536
Yale U.	89	200,736	964,412	1,165,148
Oklahoma State U., Stillwater	90	198,799	0	198,799
Texas Tech U.	91	197,739	0	197,739
U. South Carolina, Columbia	92	195,298	20,076	215,374
Montana State U., Bozeman	93	193,577	0	193,577
Temple U.	94	192,775	107,003	299,778
Wichita State U.	95	192,042	0	192,042
U. Dayton	96	191,228	0	191,228
U. Connecticut	97	190,108	112,221	302,329
Oregon Health and Science U.	98	186,750	266,062	452,812
U. Alabama, Birmingham	99	183,589	460,741	644,330
U. Louisiana, Lafayette	100	181,400	0	181,400
Dartmouth C. and Dartmouth Hitchcock Medical Center	101	180,785	149,441	330,226
Tufts U.	102	175,577	49,379	224,956
U. California, Riverside	103	174,130	15,470	189,600

TABLE 36

**Higher education R&D expenditures at all institutions, ranked by all non-medical school R&D expenditures: FY 2021**

(Dollars in thousands)

Institution	Rank	All non-medical school R&D expenditures	All medical school R&D expenditures	All R&D expenditures
U. Alaska, Fairbanks	104	172,957	0	172,957
Virginia Commonwealth U.	105	170,117	193,979	364,096
U. New Hampshire	106	167,373	0	167,373
U. Colorado Anschutz Medical Campus <sup>d</sup>	107	166,749	396,106	562,855
New Jersey Institute of Technology	108	166,587	0	166,587
U. Arkansas, Fayetteville	109	164,443	0	164,443
North Dakota State U.	110	164,050	0	164,050
U. California, Santa Cruz	111	160,615	0	160,615
U. Chicago	112	159,978	337,673	497,651
U. Rochester	113	153,311	255,944	409,255
Syracuse U.	114	151,717	0	151,717
U. Alabama, Huntsville	115	149,792	0	149,792
SUNY, Stony Brook U.	116	149,435	125,081	274,516
West Virginia U.	117	147,730	52,177	199,907
U. Maine	118	146,801	0	146,801
U. Texas, San Antonio	119	145,362	0	145,362
U. New Mexico	120	142,627	189,939	332,566
U. Oregon	121	139,193	0	139,193
U. Nevada, Reno	122	138,941	36,445	175,386
U. Texas Health Science Center, Houston	123	133,727	175,096	308,823
Brown U.	124	129,958	146,373	276,331
U. Alabama, Tuscaloosa	125	129,509	0	129,509
U. Rhode Island	126	129,296	0	129,296
Tulane U.	127	126,504	78,702	205,206
U. Texas, Arlington	128	126,477	0	126,477
SUNY, Binghamton U.	129	124,565	0	124,565
U. Texas, Dallas	130	122,825	0	122,825
U. Montana, Missoula	131	121,571	0	121,571
Rensselaer Polytechnic Institute	132	119,056	0	119,056
U. North Dakota	133	117,398	26,108	143,506
Cold Spring Harbor Laboratory	134	114,903	0	114,903
SUNY, U. Albany	135	114,501	0	114,501
New Mexico State U.	136	110,580	0	110,580
Washington U., Saint Louis	137	110,405	878,809	989,214
U. Texas, El Paso	138	109,410	0	109,410

TABLE 36

**Higher education R&D expenditures at all institutions, ranked by all non-medical school R&D expenditures: FY 2021**

(Dollars in thousands)

Institution	Rank	All non-medical school R&D expenditures	All medical school R&D expenditures	All R&D expenditures
U. Cincinnati	139	108,159	443,667	551,826
San Diego State U.	140	107,681	0	107,681
Brandeis U.	141	107,549	0	107,549
U. Idaho	142	105,895	0	105,895
Georgetown U.	143	104,183	175,749	279,932
Drexel U.	144	103,976	48,776	152,752
U. Massachusetts, Lowell	145	94,708	0	94,708
U. Nevada, Las Vegas	146	93,493	7,516	101,009
U. Wyoming	147	93,202	0	93,202
U. Vermont	148	91,507	103,813	195,320
Uniformed Services U. of the Health Sciences	149	90,950	293,540	384,490
U. Maryland, Baltimore County	150	84,418	0	84,418
Michigan Technological U.	151	81,715	0	81,715
Colorado School of Mines	152	81,443	0	81,443
U. North Texas, Denton	153	81,252	0	81,252
U. Miami	154	79,976	295,865	375,841
U. Nebraska, Medical Center	155	79,432	121,542	200,974
Wayne State U.	156	76,744	158,775	235,519
Case Western Reserve U.	157	74,606	347,262	421,868
Texas State U.	158	72,510	0	72,510
Cleveland State U.	159	71,451	0	71,451
Northern Arizona U.	160	69,129	0	69,129
William & Mary	161	68,801	0	68,801
U. Southern Mississippi	162	67,417	0	67,417
U. Memphis	163	67,092	0	67,092
American U.	164	65,912	0	65,912
Van Andel Research Institute	165	65,789	0	65,789
Indiana U.-Purdue U., Indianapolis	166	65,330	0	65,330
Boston C.	167	65,156	0	65,156
Naval Postgraduate School	168	65,101	0	65,101
U. Mississippi	169	64,746	51,429	116,175
U. Louisville	170	64,651	135,711	200,362
U. Massachusetts, Boston	171	63,723	0	63,723
Old Dominion U.	172	62,332	0	62,332
San Jose State U.	173	60,100	0	60,100

TABLE 36

**Higher education R&D expenditures at all institutions, ranked by all non-medical school R&D expenditures: FY 2021**

(Dollars in thousands)

Institution	Rank	All non-medical school R&D expenditures	All medical school R&D expenditures	All R&D expenditures
Rochester Institute of Technology	174	56,043	0	56,043
U. Wisconsin-Milwaukee	175	55,664	0	55,664
Missouri U. of Science and Technology	176	54,437	0	54,437
CUNY, City C.	177	53,491	3,870	57,361
U. North Carolina, Charlotte	178	51,877	0	51,877
South Dakota State U.	179	51,542	0	51,542
U. Maryland Center for Environmental Science	180	51,201	0	51,201
U. California, Office of the President	181	50,848	0	50,848
Florida Atlantic U.	182	50,842	7,629	58,471
Kent State U.	183	50,408	0	50,408
Baylor U.	184	48,809	0	48,809
Worcester Polytechnic Institute	185	48,702	0	48,702
Florida A&M U.	186	47,124	0	47,124
U. North Texas, Health Science Center	187	46,889	3,809	50,698
Medical U. South Carolina	188	46,789	230,972	277,761
Mercer U.	189	46,350	5,639	51,989
Boise State U.	190	46,065	0	46,065
U. California, Merced	191	45,964	0	45,964
Air Force Institute of Technology	192	45,703	0	45,703
U. Texas Health Science Center, San Antonio	193	45,383	174,351	219,734
Brigham Young U., Provo	194	43,916	0	43,916
Stevens Institute of Technology	195	43,386	0	43,386
Southern Methodist U.	196	41,960	0	41,960
Portland State U.	197	41,311	0	41,311
Lehigh U.	198	41,279	0	41,279
North Carolina Agricultural and Technical State U.	199	40,751	0	40,751
Saint Louis U.	200	40,260	38,745	79,005
Ohio U.	201	39,536	10,228	49,764
U. Denver	202	38,751	0	38,751
Georgia Southern U.	203	37,201	0	37,201
Marquette U.	204	37,087	0	37,087
U. North Carolina, Greensboro	205	37,033	0	37,033
U. West Florida	206	36,837	0	36,837
San Francisco State U.	207	35,768	0	35,768
Catholic U. of America	208	35,548	0	35,548

TABLE 36

**Higher education R&D expenditures at all institutions, ranked by all non-medical school R&D expenditures: FY 2021**

(Dollars in thousands)

Institution	Rank	All non-medical school R&D expenditures	All medical school R&D expenditures	All R&D expenditures
East Carolina U.	209	35,378	16,284	51,662
U. Texas Rio Grande Valley	210	35,373	22,814	58,187
U. Toledo	211	34,657	18,512	53,169
Howard U.	212	34,072	18,340	52,412
CUNY, Hunter C.	213	33,816	0	33,816
U.S. Air Force Academy	214	32,086	0	32,086
Texas A&M U.-Corpus Christi	215	30,500	0	30,500
U. Puerto Rico, Medical Sciences Campus	216	30,421	13,690	44,111
Illinois Institute of Technology	217	29,698	0	29,698
U. Puerto Rico, Rio Piedras	218	28,896	0	28,896
Southern Illinois U., Carbondale	219	28,870	18,340	47,210
New Mexico Institute of Mining and Technology	220	28,745	0	28,745
U. Massachusetts, Dartmouth	221	28,729	0	28,729
SUNY, C. of Environmental Science and Forestry	222	28,440	0	28,440
U. Texas Health Science Center, Tyler	223	27,928	0	27,928
Louisiana Tech U.	224	27,417	0	27,417
Tennessee State U.	225	26,880	0	26,880
U. Missouri, Kansas City	226	26,521	7,334	33,855
Desert Research Institute	227	26,365	0	26,365
California Polytechnic State U., San Luis Obispo	228	25,953	0	25,953
Chapman U.	229	25,820	0	25,820
Northern Illinois U.	230	25,261	0	25,261
Miami U.	231	25,138	0	25,138
Villanova U.	232	24,723	0	24,723
Teachers C., Columbia U.	233	24,335	0	24,335
Illinois State U.	234	24,152	0	24,152
Rutgers, State U. New Jersey, Newark	235	23,854	0	23,854
U. Minnesota, Duluth	236	23,767	0	23,767
U. South Alabama	237	23,741	23,869	47,610
California State U., Sacramento	238	23,699	0	23,699
Texas A&M U.-Kingsville	239	23,578	0	23,578
Florida Institute of Technology	240	23,195	0	23,195
Delaware State U.	241	23,193	0	23,193
Middle Tennessee State U.	242	22,531	0	22,531
Tuskegee U.	243	21,355	0	21,355

TABLE 36

**Higher education R&D expenditures at all institutions, ranked by all non-medical school R&D expenditures: FY 2021**

(Dollars in thousands)

Institution	Rank	All non-medical school R&D expenditures	All medical school R&D expenditures	All R&D expenditures
U. Alaska, Anchorage	244	21,332	0	21,332
U. Nebraska, central administration	245	21,295	0	21,295
Morgan State U.	246	20,628	0	20,628
Oakland U.	247	20,214	47	20,261
California State U., East Bay	248	20,108	0	20,108
Western Michigan U. and Homer Stryker M.D. School of Medicine	249	19,939	5,375	25,314
Embry-Riddle Aeronautical U.	250	19,830	0	19,830
U.S. Military Academy	251	19,696	0	19,696
U. Nebraska, Omaha	252	19,006	0	19,006
Kennesaw State U.	253	18,880	0	18,880
U. South Dakota	254	18,805	8,732	27,537
Bowling Green State U.	255	18,619	0	18,619
U. Puerto Rico, Mayaguez	256	18,368	0	18,368
Southern Illinois U., Edwardsville	257	18,044	0	18,044
U. Colorado Denver <sup>d</sup>	258	18,039	0	18,039
Tarleton State U.	259	17,729	0	17,729
U. Guam	260	17,666	0	17,666
Prairie View A&M U.	261	17,582	0	17,582
Thomas Jefferson U.	262	17,525	182,868	200,393
Montclair State U.	263	17,390	0	17,390
U. Akron	264	17,340	0	17,340
Wright State U.	265	17,067	9,192	26,259
U. New Orleans	266	16,979	0	16,979
Clarkson U.	267	16,765	0	16,765
Fordham U.	268	16,731	0	16,731
U. North Carolina, Wilmington	269	16,656	0	16,656
California State U., Northridge	270	16,573	0	16,573
U. Tulsa	271	16,449	0	16,449
Jackson State U.	272	16,157	0	16,157
CUNY, Queens C.	273	16,063	0	16,063
U. North Florida	274	15,782	0	15,782
South Dakota School of Mines and Technology	275	15,746	0	15,746
Rowan U.	276	15,649	10,809	26,458
CUNY, Advanced Science Research Center	277	15,403	0	15,403
Tennessee Technological U.	278	15,387	0	15,387

TABLE 36

**Higher education R&D expenditures at all institutions, ranked by all non-medical school R&D expenditures: FY 2021**

(Dollars in thousands)

Institution	Rank	All non-medical school R&D expenditures	All medical school R&D expenditures	All R&D expenditures
Texas Tech U., Health Sciences Center	279	15,344	26,239	41,583
Texas Christian U.	280	15,285	51	15,336
U. of the Virgin Islands	281	15,231	0	15,231
California State U., Long Beach	282	15,134	0	15,134
Long Island U.	283	15,059	0	15,059
CUNY, Graduate School of Public Health and Health Policy	284	15,035	0	15,035
Montana Technological U.	285	14,933	0	14,933
James Madison U.	286	14,687	0	14,687
U. Baltimore	287	14,672	0	14,672
U. Missouri, Saint Louis	288	14,632	0	14,632
New School	289	14,281	0	14,281
Alcorn State U.	290	14,188	0	14,188
North Carolina Central U.	291	14,105	0	14,105
Humboldt State U.	292	14,103	0	14,103
Wake Forest U.	293	13,997	250,219	264,216
Idaho State U.	294	13,953	0	13,953
Western Washington U.	295	13,450	0	13,450
Nova Southeastern U.	296	12,976	11,537	24,513
Sam Houston State U.	297	12,946	369	13,315
U. Hawaii, system office	298	12,918	0	12,918
Loyola Marymount U.	299	12,819	0	12,819
Xavier U. Louisiana	300	12,799	0	12,799
CUNY, John Jay C. of Criminal Justice	301	11,791	0	11,791
Hampton U.	302	11,669	0	11,669
California State U., San Bernardino	303	11,607	0	11,607
Charles R. Drew U. of Medicine and Science	304	11,522	1,706	13,228
Central Michigan U.	305	11,233	10,493	21,726
U. Tennessee, Chattanooga	306	11,192	0	11,192
Rhode Island C.	307	10,990	0	10,990
U.S. Naval Academy	308	10,818	0	10,818
Salisbury U.	309	10,552	0	10,552
Duquesne U.	310	10,521	0	10,521
California State U., San Marcos	311	10,213	0	10,213
Virginia State U.	312	10,123	0	10,123
Missouri State U.	313	10,014	0	10,014



TABLE 36

**Higher education R&D expenditures at all institutions, ranked by all non-medical school R&D expenditures: FY 2021**

(Dollars in thousands)

Institution	Rank	All non-medical school R&D expenditures	All medical school R&D expenditures	All R&D expenditures
West Texas A&M U.	314	9,920	0	9,920
St. Edward's U.	315	9,527	0	9,527
California State U., Los Angeles	316	9,382	0	9,382
East Tennessee State U.	317	9,218	9,231	18,449
California State U., Fresno	318	9,213	0	9,213
SUNY, Upstate Medical U.	319	9,193	35,677	44,870
Texas Southern U.	320	9,128	0	9,128
Alabama A&M U.	321	9,065	0	9,065
California State U., Fullerton	322	9,006	0	9,006
Bryn Mawr C.	323	8,987	0	8,987
Clark Atlanta U.	324	8,892	0	8,892
Marshall U.	325	8,884	14,736	23,620
Ball State U.	326	8,826	0	8,826
Kentucky State U.	327	8,756	0	8,756
Central State U.	328	8,751	0	8,751
U. Arkansas, Pine Bluff	329	8,713	0	8,713
U. Maryland, Eastern Shore	330	8,636	0	8,636
Arkansas State U., Jonesboro	331	8,422	0	8,422
U. Washington, Bothell	332	8,311	0	8,311
Florida Gulf Coast U.	333	8,197	0	8,197
Winston-Salem State U.	334	8,123	0	8,123
U. of the District of Columbia	335	8,104	0	8,104
Augusta U.	336	8,026	108,454	116,480
Wesleyan U.	337	8,009	0	8,009
Clark U.	338	7,931	0	7,931
William Paterson U.	339	7,867	0	7,867
Lincoln U., Jefferson City	340	7,621	0	7,621
Loyola U., Chicago	341	7,583	36,453	44,036
U. San Diego	342	7,580	0	7,580
U. Texas Medical Branch	343	7,558	178,201	185,759
Creighton U.	344	7,542	15,709	23,251
U. Michigan, Dearborn	345	7,472	0	7,472
U. Hawaii, Hilo	346	7,411	0	7,411
U. Arkansas, Little Rock	347	7,397	0	7,397
Claremont Graduate U.	348	7,235	0	7,235

TABLE 36

**Higher education R&D expenditures at all institutions, ranked by all non-medical school R&D expenditures: FY 2021**

(Dollars in thousands)

Institution	Rank	All non-medical school R&D expenditures	All medical school R&D expenditures	All R&D expenditures
Eastern Michigan U.	349	7,233	0	7,233
California State Polytechnic U., Pomona	350	7,011	0	7,011
Western Kentucky U.	351	6,944	0	6,944
California State U., Monterey Bay	352	6,882	0	6,882
Grand Valley State U.	353	6,809	0	6,809
DePaul U.	354	6,675	0	6,675
West Virginia State U.	355	6,565	0	6,565
C. Charleston	356	6,361	0	6,361
Langston U.	357	6,345	0	6,345
CUNY, Brooklyn C.	358	6,318	0	6,318
California State U., Bakersfield	359	6,253	0	6,253
Wellesley C.	360	6,252	0	6,252
Indiana U. Pennsylvania	361	6,180	0	6,180
Southern U. and A&M C., Agricultural Research and Extension Center	362	6,164	0	6,164
Gallaudet U.	363	6,126	0	6,126
U. Central Oklahoma	364	5,997 i	0 i	5,997 i
Roseman U. of Health Sciences	365	5,985	0	5,985
Southern Connecticut State U.	366	5,750	0	5,750
Purdue U., Northwest	367	5,647	0	5,647
Western U. of Health Sciences	368	5,560	1,128	6,688
Naval War C.	369	5,542	0	5,542
U. Texas Southwestern Medical Center	370	5,520	626,614	632,134
Pennsylvania State U., Behrend	371	5,509	0	5,509
U. Southern Maine	372	5,480	0	5,480
Colorado C.	373	5,467	0	5,467
Yeshiva U.	374	5,452	0	5,452
U. Colorado Colorado Springs	375	5,338	0	5,338
Seton Hall U.	376	5,320	0	5,320
Azusa Pacific U.	377	5,318	0	5,318
U. of Health Sciences and Pharmacy in St. Louis	378	5,313	0	5,313
Hofstra U.	379	5,277	268	5,545
Hope C.	380	5,211	0	5,211
U. of St. Thomas (MN)	381	5,146	0	5,146
Rutgers, State U. New Jersey, Camden	382	5,142	0	5,142
Reed C.	383	5,132 i	0 i	5,132 i

TABLE 36

**Higher education R&D expenditures at all institutions, ranked by all non-medical school R&D expenditures: FY 2021**

(Dollars in thousands)

Institution	Rank	All non-medical school R&D expenditures	All medical school R&D expenditures	All R&D expenditures
U. Oklahoma, Tulsa	384	5,090	2,095	7,185
Louisiana State U., Health Sciences Center, New Orleans	385	5,071	39,299	44,370
High Tech High Graduate School of Ed.	386	5,032	0	5,032
Midwestern U.	387	4,995	5,966	10,961
U. New England	388	4,988	1,246	6,234
Toyota Technological Institute, Chicago	389	4,967	0	4,967
Southern U. and A&M C., Baton Rouge	390	4,943	0	4,943
Texas Woman's U.	390	4,943	0	4,943
Williams C.	392	4,902 i	0 i	4,902 i
U. North Carolina, Asheville	393	4,844	0	4,844
Fort Valley State U.	394	4,842	0	4,842
Lamar U.	395	4,734	0	4,734
Pacific U.	396	4,690	0	4,690
U.S. Army War C.	397	4,662 i	0 i	4,662 i
Amherst C.	398	4,636	0	4,636
Barnard C.	399	4,632	0	4,632
Abilene Christian U.	400	4,597	0	4,597
U. Detroit Mercy	401	4,578	0	4,578
Morehouse C.	402	4,533	0	4,533
Claremont McKenna C.	403	4,515	0	4,515
Appalachian State U.	404	4,509	0	4,509
Des Moines U.	405	4,502 i	756 i	5,258 i
Bucknell U.	406	4,476	0	4,476
West Chester U. Pennsylvania	407	4,433	0	4,433
U. Wisconsin-Stevens Point	408	4,401	0	4,401
Fisk U.	409	4,320	0	4,320
Norfolk State U.	410	4,316	0	4,316
Oregon Institute of Technology	411	4,314	0	4,314
U. Washington, Tacoma	412	4,291	0	4,291
CUNY, Graduate Center	413	4,265	0	4,265
California State U., Chico	414	4,209	0	4,209
CUNY, Lehman C.	415	4,181	0	4,181
Grinnell C.	416	4,122	0	4,122
Smith C.	417	4,085	0	4,085
U. New Haven	418	4,069	0	4,069

TABLE 36

**Higher education R&D expenditures at all institutions, ranked by all non-medical school R&D expenditures: FY 2021**

(Dollars in thousands)

Institution	Rank	All non-medical school R&D expenditures	All medical school R&D expenditures	All R&D expenditures
U. North Carolina, general administration	419	4,024	0	4,024
U. of the Sciences Philadelphia	420	4,005	0	4,005
U. Central Arkansas	421	3,990	0	3,990
Fayetteville State U.	422	3,933	0	3,933
South Carolina State U.	422	3,933 i	0 i	3,933 i
Murray State U.	424	3,844	0	3,844
Haverford C.	425	3,835	0	3,835
Texas A&M U.-Commerce	426	3,827	0	3,827
Rush U.	427	3,807	103,591	107,398
Carleton C.	428	3,800	0	3,800
Towson U.	429	3,794	0	3,794
National Defense U.	430	3,786	0	3,786
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	431	3,776	0	3,776
Texas A&M International U.	432	3,740	0	3,740
Franklin and Marshall C.	433	3,722	0	3,722
Albany C. of Pharmacy and Health Sciences	434	3,687	0	3,687
Pace U.	435	3,649	0	3,649
Occidental C.	436	3,587	0	3,587
U. Massachusetts, central office	437	3,541	0	3,541
Kean U.	438	3,538	0	3,538
Western Illinois U.	439	3,532	0	3,532
U. Texas of the Permian Basin	440	3,504	0	3,504
SUNY, C. of Optometry	441	3,460	0	3,460
Dakota State U.	442	3,416	0	3,416
Northern Kentucky U.	443	3,403	0	3,403
U. Virginia's C. Wise	444	3,310	0	3,310
Colgate U.	445	3,306	0	3,306
Swarthmore C.	446	3,296	0	3,296
U. Northern Iowa	447	3,259	0	3,259
Stephen F. Austin State U.	448	3,204	0	3,204
U. Nebraska, Kearney	449	3,201	0	3,201
Milwaukee School of Engineering	450	3,193	0	3,193
U. Northern Colorado	451	3,159	0	3,159
Santa Clara U.	452	3,142	0	3,142
MGH Institute of Health Professions	453	3,037	0	3,037

TABLE 36

**Higher education R&D expenditures at all institutions, ranked by all non-medical school R&D expenditures: FY 2021**

(Dollars in thousands)

Institution	Rank	All non-medical school R&D expenditures	All medical school R&D expenditures	All R&D expenditures
U. Wisconsin-La Crosse	454	3,001	0	3,001
Colorado State U., Pueblo	455	2,990	0	2,990
Sonoma State U.	456	2,957	0	2,957
St. John's U., New York	457	2,940	0	2,940
Pennsylvania State U., Harrisburg	458	2,938	0	2,938
Middlebury C.	459	2,927	0	2,927
Saint Joseph's U.	460	2,922	0	2,922
Trinity U.	461	2,905	0	2,905
CUNY, C. Staten Island	462	2,860	0	2,860
Western Carolina U.	463	2,847	0	2,847
Philadelphia C. of Osteopathic Medicine	464	2,837	3,349	6,186
Northwest Indian C.	465	2,806 i	0 i	2,806 i
California State U., Maritime Academy	466	2,799	0	2,799
Youngstown State U.	467	2,775	0	2,775
Austin Peay State U.	468	2,740	0	2,740
Pittsburg State U.	469	2,730	0	2,730
California State U., Dominguez Hills	470	2,690	0	2,690
Alfred U.	471	2,660	0	2,660
Christopher Newport U.	472	2,656	0	2,656
Pepperdine U.	473	2,655	0	2,655
Alabama State U.	474	2,631	0	2,631
Bates C.	475	2,620	0	2,620
U. Illinois, Springfield	476	2,612	0	2,612
U. Wisconsin-Superior	477	2,602	0	2,602
Winthrop U.	478	2,586	0	2,586
Pratt Institute	479	2,547	0	2,547
Dillard U.	480	2,528	0	2,528
CUNY, Baruch C.	481	2,521	0	2,521
Purdue U., Fort Wayne	482	2,495	0	2,495
Ponce Health Sciences U.	483	2,472	20,825	23,297
Davidson C.	484	2,466	0	2,466
Johnson C. Smith U.	485	2,461 i	0 i	2,461 i
Furman U.	486	2,431	0	2,431
Saginaw Valley State U.	487	2,428 i	0 i	2,428 i
Bowdoin C.	488	2,417	0	2,417

TABLE 36

**Higher education R&D expenditures at all institutions, ranked by all non-medical school R&D expenditures: FY 2021**

(Dollars in thousands)

Institution	Rank	All non-medical school R&D expenditures	All medical school R&D expenditures	All R&D expenditures
Central Washington U.	489	2,410	0	2,410
Framingham State U.	490	2,401 i	0 i	2,401 i
St. Cloud State U.	491	2,379	0	2,379
Touro U.	492	2,368	1,121	3,489
Harvey Mudd C.	493	2,359	0	2,359
California State U., Channel Islands	494	2,341	0	2,341
Skidmore C.	495	2,335	0	2,335
Marymount U.	496	2,307	0	2,307
U. Richmond	497	2,294	0	2,294
Spelman C.	498	2,282	0	2,282
Lewis and Clark C.	499	2,281	0	2,281
U. Texas, Tyler	500	2,279	0	2,279
Keck Graduate Institute	501	2,254 i	0 i	2,254 i
Coastal Carolina U.	502	2,245	0	2,245
Palmer C. of Chiropractic, Davenport	503	2,233	0	2,233
U. Louisiana, Monroe	504	2,198	0	2,198
Minnesota State U., Mankato	505	2,170	0	2,170
Pomona C.	506	2,146	0	2,146
Sul Ross State U.	507	2,143 i	0 i	2,143 i
Grambling State U.	508	2,124	0	2,124
Texas Tech U., Health Sciences Center, El Paso	509	2,122	9,238	11,360
Tougaloo C.	510	2,092 i	0 i	2,092 i
California State U., Stanislaus	511	2,085	0	2,085
SUNY, Geneseo	512	2,070	0	2,070
Loma Linda U.	513	2,067	11,962	14,029
Citadel Military C. South Carolina	514	2,054	0	2,054
Suffolk U.	515	2,043	0	2,043
U. South Carolina, Aiken	516	2,042	0	2,042
Elon U.	517	2,032	0	2,032
Mount Holyoke C.	518	2,026	0	2,026
New England C. of Optometry	519	1,978	0	1,978
Meharry Medical C.	520	1,970	13,870	15,840
SUNY, Buffalo State	521	1,962	0	1,962
Hobart and William Smith Colleges	522	1,941	0	1,941
Mercyhurst U.	523	1,937 i	0 i	1,937 i

TABLE 36

**Higher education R&D expenditures at all institutions, ranked by all non-medical school R&D expenditures: FY 2021**

(Dollars in thousands)

Institution	Rank	All non-medical school R&D expenditures	All medical school R&D expenditures	All R&D expenditures
Fort Lewis C.	524	1,926	0	1,926
Eastern Washington U.	525	1,921	0	1,921
Northeastern Illinois U.	526	1,913	0	1,913
C. New Jersey	527	1,912	0	1,912
U. Puerto Rico, Cayey	528	1,881	0	1,881
U. Wisconsin-Green Bay	529	1,879	0	1,879
Manhattan C.	530	1,864	0	1,864
Roger Williams U.	531	1,854	0	1,854
U. Wisconsin-Eau Claire	532	1,852	0	1,852
Hawaii Pacific U.	533	1,849	0	1,849
U. Houston-Downtown	534	1,828	0	1,828
Willamette U.	535	1,817	0	1,817
Savannah State U.	536	1,804	0	1,804
Trinity C., Hartford	537	1,775	0	1,775
New York Medical C.	538	1,774	17,098	18,872
Lawrence Technological U.	539	1,764	0	1,764
Morehead State U.	540	1,754	0	1,754
Hamilton C.	541	1,747	0	1,747
Heidelberg U.	542	1,725	0	1,725
Erikson Institute	543	1,723	0	1,723
Southeastern Louisiana U.	543	1,723	0	1,723
Elizabeth City State U.	545	1,717	0	1,717
U. Houston-Clear Lake	546	1,716	0	1,716
Rosalind Franklin U. of Medicine and Science	547	1,686	12,119	13,805
Colby C.	548	1,672	0	1,672
Monmouth U.	549	1,667	0	1,667
CUNY, system office	550	1,664	0	1,664
Northwestern State U. Louisiana	551	1,663	0	1,663
U. Wisconsin-Oshkosh	552	1,656	0	1,656
Eastern Connecticut State U.	553	1,646	0	1,646
Franklin W. Olin C. of Engineering	554	1,627	0	1,627
New York Institute of Technology	555	1,607	2,858	4,465
Vassar C.	556	1,606	0	1,606
U. Ana G. Mendez, Gurabo	557	1,574	0	1,574
Seattle U.	558	1,562	0	1,562

TABLE 36

**Higher education R&D expenditures at all institutions, ranked by all non-medical school R&D expenditures: FY 2021**

(Dollars in thousands)

Institution	Rank	All non-medical school R&D expenditures	All medical school R&D expenditures	All R&D expenditures
Troy U.	559	1,548	0	1,548
La Sierra U.	560	1,517	0	1,517
Calvin U.	561	1,490 i	0 i	1,490 i
Drake U.	562	1,488	0	1,488
U. North Georgia	563	1,415	0	1,415
Bowie State U.	564	1,398	0	1,398
U. of the Incarnate Word	565	1,397	585	1,982
Union C., Schenectady	566	1,396	0	1,396
U. San Francisco	567	1,375	0	1,375
U. of the Pacific	568	1,371	0	1,371
CUNY, New York City C. of Technology	569	1,367	0	1,367
Northern Michigan U.	570	1,364	0	1,364
Marshall B. Ketchum U.	571	1,351 i	0 i	1,351 i
U. Puerto Rico, Humacao	572	1,321	0	1,321
Kettering U.	573	1,315	0	1,315
Central Connecticut State U.	574	1,314	0	1,314
Babson C.	575	1,286	0	1,286
Black Hills State U.	576	1,280	0	1,280
Macalester C.	576	1,280	0	1,280
SUNY, C. Plattsburgh	576	1,280	0	1,280
Florida Polytechnic U.	579	1,269	0	1,269
U. Hartford	580	1,252	0	1,252
Stockton U.	581	1,246	0	1,246
Connecticut C.	582	1,244	0	1,244
Biola U.	583	1,243 i	0 i	1,243 i
Northeast Ohio Medical U.	584	1,241	12,612	13,853
Doane U.	585	1,176 i	0 i	1,176 i
U. Alaska, Southeast	585	1,176	0	1,176
U. Wisconsin-Platteville	587	1,144 i	0 i	1,144 i
CUNY, York C.	588	1,133	0	1,133
New Mexico Highlands U.	589	1,129 i	0 i	1,129 i
Albion C.	590	1,127 i	0 i	1,127 i
Saint John's U.	591	1,125 i	0 i	1,125 i
U. of Mary Washington	592	1,123	0	1,123
SUNY, C. Brockport	593	1,114	0	1,114



TABLE 36

**Higher education R&D expenditures at all institutions, ranked by all non-medical school R&D expenditures: FY 2021**

(Dollars in thousands)

Institution	Rank	All non-medical school R&D expenditures	All medical school R&D expenditures	All R&D expenditures
Northland C.	594	1,096 i	0 i	1,096 i
C. Wooster	595	1,071 i	0 i	1,071 i
C. of Saint Benedict	596	1,064 i	0 i	1,064 i
Indiana State U.	597	1,042	0	1,042
Alaska Pacific U.	598	1,036	0	1,036
Canisius C.	598	1,036	0	1,036
Ithaca C.	600	1,030	0	1,030
Clafin U.	601	1,015	0	1,015
Lafayette C.	601	1,015	0	1,015
Augustana U.	603	1,013	0	1,013
SUNY, Oswego	604	1,003	0	1,003
U. Wisconsin-River Falls	605	999	0	999
Eastern Kentucky U.	606	986	0	986
Sacred Heart U.	607	972	0	972
Rhode Island School of Design	608	971 i	0 i	971 i
U. Hawaii, Maui C.	609	967	0	967
Keene State C.	610	919	0	919
SUNY, Downstate Health Sciences U.	611	904	33,555	34,459
Indiana U., South Bend	612	898	0	898
Arcadia U.	613	889	0	889
Albany State U.	614	880	0	880
U. Minnesota, Morris	615	855	0	855
Mills C.	616	850	0	850
National U. of Natural Medicine	616	850	0	850
Fairfield U.	618	849	0	849
Fielding Graduate U.	619	843	0	843
St. Olaf C.	620	816	0	816
American Samoa Community C.	621	815	0	815
Andrews U.	622	802	0	802
Fort Hays State U.	623	800	0	800
Oberlin C.	624	776	0	776
Providence C.	625	766	0	766
U. Michigan, Flint	626	752	0	752
Liberty U.	627	731	206	937
Wheaton C., Wheaton	628	729	0	729

TABLE 36

**Higher education R&D expenditures at all institutions, ranked by all non-medical school R&D expenditures: FY 2021**

(Dollars in thousands)

Institution	Rank	All non-medical school R&D expenditures	All medical school R&D expenditures	All R&D expenditures
Dordt U.	629	696	0	696
Niagara U.	630	509	0	509
Albizu U.	631	428	0	428
Lipscomb U.	632	321	0	321
Jacksonville State U.	633	275	0	275
Eastern Virginia Medical School	634	196	19,219	19,415
Medical C. Wisconsin	635	7	276,843	276,850
Albert Einstein C. of Medicine	636	1	301,714	301,715
U. Arkansas for Medical Sciences	636	1	194,708	194,709
Albany Medical C.	-	0	22,443	22,443
Baylor C. of Medicine	-	0	716,976	716,976
Edward Via C. of Osteopathic Medicine	-	0	6,629	6,629
Icahn School of Medicine at Mount Sinai	-	0	820,260	820,260
Louisiana State U., Health Sciences Center, Shreveport	-	0	24,600	24,600
Morehouse School of Medicine	-	0	32,637	32,637
Oklahoma State U., Center for Health Sciences	-	0	7,758	7,758
U. Central del Caribe	-	0	3,831	3,831
U. Massachusetts, Medical School	-	0	347,337	347,337
U. Tennessee, Health Science Center	-	0	109,562	109,562
West Virginia School of Osteopathic Medicine	-	0	1,255	1,255

i = imputed.

<sup>a</sup> Johns Hopkins University includes the Applied Physics Laboratory, with \$1,949,752 thousand in total R&D expenditures in FY 2021.

<sup>b</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

<sup>c</sup> The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

<sup>d</sup> The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

**Note(s):**

Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2021.

TABLE 37

**Higher education R&D expenditures at public institutions, ranked by all R&D expenditures, by source of funds: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
All institutions	-	58,667,378	30,103,415	4,355,632	16,044,594	3,083,531	3,160,741	1,919,465
U. California, San Francisco	1	1,710,036	683,179	33,056	418,589	128,370	254,406	192,436
U. Michigan, Ann Arbor	2	1,639,645	891,125	2,066	581,768	91,117	63,650	9,919
U. Washington, Seattle	3	1,488,645	1,046,377	21,877	105,070	54,751	212,584	47,986
U. California, Los Angeles	4	1,454,880	721,043	71,014	302,528	87,959	194,232	78,104
U. California, San Diego	5	1,425,499	801,117	51,346	250,863	85,003	87,380	149,790
U. Wisconsin-Madison	6	1,380,075	646,764	135,923	412,540	31,502	117,817	35,529
Ohio State U.	7	1,236,111	559,797	45,862	425,597	129,914	50,022	24,919
U. North Carolina, Chapel Hill	8	1,205,883	747,895	9,550	304,506	48,938	79,885	15,109
Texas A&M U., College Station and Health Science Center	9	1,147,720	528,057	198,483	313,192	32,978	45,135	29,875
U. Maryland <sup>a</sup>	10	1,142,264	713,283	42,597	307,481	30,638	43,450	4,815
U. Pittsburgh, Pittsburgh	11	1,135,416	724,993	9,484	255,241	33,240	65,217	47,241
U. Texas M. D. Anderson Cancer Center	12	1,124,971	217,073	293,325	233,279	211,849	32,741	136,704
Georgia Institute of Technology	13	1,114,481	852,319	107,465	71,780	56,015	23,558	3,344
U. Minnesota, Twin Cities	14	1,072,961	570,946	69,842	309,620	44,460	45,879	32,214
Pennsylvania State U., University Park and Hershey Medical Center	15	970,544	622,532	46,993	216,134	33,787	26,230	24,868
U. Florida	16	959,965	423,154	161,448	266,197	31,394	46,582	31,190
U. California, Berkeley	17	846,872	354,478	40,383	185,077	71,696	137,896	57,342
U. California, Davis	18	817,409	373,719	75,116	207,272	56,160	44,693	60,449
U. Texas, Austin	19	779,348	489,827	30,336	139,669	68,580	43,258	7,678
U. Arizona	20	770,031	353,117	28,604	234,514	24,601	31,045	98,150
U. Illinois, Urbana-Champaign	21	731,268	406,612	26,853	206,718	41,455	33,562	16,068
Michigan State U.	22	710,178	349,889	41,609	275,632	11,016	17,600	14,432
Indiana U., Bloomington	23	695,258	326,326	3,863	264,093	29,077	70,216	1,683
Purdue U., West Lafayette	24	679,482	295,278	37,369	211,557	64,364	25,857	45,057
Arizona State U.	25	677,303	274,541	43,390	258,139	23,580	56,958	20,695
U. Alabama, Birmingham	26	644,330	423,290	9,355	116,561	61,764	31,641	1,719
Rutgers, State U. New Jersey, New Brunswick	27	643,955	339,015	84,201	111,501	40,861	49,049	19,328
U. Texas Southwestern Medical Center	28	632,134	257,611	68,114	151,111	38,886	52,491	63,921
U. Utah	29	624,737	340,434	4,638	203,839	38,783	33,417	3,626
U. Virginia, Charlottesville	30	611,313	297,273	8,714	181,375	28,643	34,515	60,793
U. Colorado Anschutz Medical Campus <sup>b</sup>	31	562,855	363,999	25,162	69,836	48,309	45,580	9,969

TABLE 37

**Higher education R&D expenditures at public institutions, ranked by all R&D expenditures, by source of funds: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U. Iowa	32	553,876	283,763	5,395	220,579	25,536	18,601	2
U. Cincinnati	33	551,826	309,097	7,234	145,772	39,228	38,816	11,679
U. Colorado Boulder	34	547,724	459,816	4,348	33,465	10,691	14,357	25,047
North Carolina State U.	35	547,118	239,115	127,290	126,142	49,478	4,806	287
Virginia Polytechnic Institute and State U.	36	542,045	216,733	60,571	220,645	32,964	5,050	6,082
U. California, Irvine	37	523,752	255,010	15,891	130,928	40,622	34,512	46,789
U. Georgia	38	493,944	188,451	54,706	220,665	11,212	14,029	4,881
SUNY, Polytechnic Institute	39	465,273	25,427	206,962	77,753	150,915	456	3,760
Oregon Health and Science U.	40	452,812	329,016	1,007	44,030	40,991	37,168	600
Colorado State U., Fort Collins	41	447,197	303,901	28,559	76,610	11,979	19,536	6,612
U. Illinois, Chicago	42	429,585	237,949	8,027	137,227	13,998	25,065	7,319
U. Kentucky	43	429,241	220,703	33,287	127,488	8,529	11,078	28,156
SUNY, U. Buffalo	44	425,349	210,257	27,020	132,361	21,474	24,932	9,305
U. South Florida <sup>C</sup>	45	405,088	185,364	23,254	161,442	14,798	10,584	9,646
U. Missouri, Columbia	46	388,779	163,576	39,936	157,031	14,488	8,801	4,947
U. Kansas	47	385,637	187,249	33,921	112,360	27,517	11,831	12,759
Uniformed Services U. of the Health Sciences	48	384,490	275,573	0	82,058	0	26,859	0
U. Oklahoma, Norman and Health Science Center	49	380,048	193,639	38,203	116,014	19,294	9,504	3,394
Virginia Commonwealth U.	50	364,096	160,995	31,893	144,356	12,494	14,358	0
Iowa State U.	51	360,275	169,177	34,097	122,844	19,837	9,644	4,676
Washington State U.	52	357,648	179,536	48,317	106,804	9,897	11,326	1,768
U. Massachusetts, Medical School	53	347,337	248,873	5,405	49,135	16,669	19,542	7,713
U. New Mexico	54	332,566	242,212	8,359	62,426	4,253	14,088	1,228
Florida State U.	55	328,604	150,108	20,583	143,790	3,033	3,764	7,326
Utah State U.	56	325,223	264,575	22,481	24,792	6,975	482	5,918
U. Tennessee, Knoxville	57	316,273	135,202	12,577	151,533	7,224	5,995	3,742
U. Texas Health Science Center, Houston	58	308,823	165,139	42,636	47,653	16,305	24,200	12,890
U. Nebraska, Lincoln	59	307,083	106,564	55,626	111,550	19,843	6,145	7,355
U. Connecticut	60	302,329	183,362	4,394	88,458	9,827	12,683	3,605
Temple U.	61	299,778	153,316	8,876	90,467	22,560	18,260	6,299
Louisiana State U., Baton Rouge	62	296,673	103,178	70,166	98,424	11,492	5,959	7,454
Medical U. South Carolina	63	277,761	162,394	4,423	72,286	22,129	8,899	7,630
Oregon State U.	64	276,955	179,180	47,981	25,573	6,517	2,956	14,748

TABLE 37

**Higher education R&D expenditures at public institutions, ranked by all R&D expenditures, by source of funds: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Mississippi State U.	65	275,143	116,713	88,418	58,242	3,257	6,994	1,519
SUNY, Stony Brook U.	66	274,516	162,972	10,323	84,647	5,135	9,416	2,023
U. Hawaii, Manoa	67	271,768	157,772	20,742	78,176	2,660	11,138	1,280
Auburn U., Auburn	68	266,374	91,157	28,351	130,767	6,492	1,818	7,789
U. California, Santa Barbara	69	248,961	122,168	5,213	54,569	20,480	28,768	17,763
Florida International U.	70	246,075	105,309	19,445	111,950	2,311	6,437	623
Clemson U.	71	237,485	89,883	25,748	98,955	16,178	6,562	159
Wayne State U.	72	235,519	117,976	9,594	72,758	4,228	26,574	4,389
U. Delaware	73	231,532	157,725	10,335	47,254	6,026	4,176	6,016
U. Texas Health Science Center, San Antonio	74	219,734	106,824	25,110	51,848	10,085	25,548	319
U. Central Florida	75	218,596	109,310	11,703	76,091	11,489	5,025	4,978
U. South Carolina, Columbia	76	215,374	97,193	6,108	96,392	3,409	8,354	3,918
George Mason U.	77	214,207	103,712	3,387	65,041	5,910	30,643	5,514
U. Massachusetts, Amherst	78	213,824	116,349	8,595	71,954	7,710	5,479	3,737
Georgia State U.	79	206,472	79,834	6,353	105,546	615	11,938	2,186
Kansas State U.	80	203,846	77,779	42,139	68,224	6,671	7,814	1,219
U. Houston	81	202,536	77,489	35,530	71,291	7,745	7,309	3,172
U. Nebraska, Medical Center	82	200,974	111,042	11,950	38,843	9,286	14,356	15,497
U. Louisville	83	200,362	97,179	7,351	65,375	9,846	7,685	12,926
West Virginia U.	84	199,907	89,802	9,993	72,419	4,505	5,949	17,239
Oklahoma State U., Stillwater	85	198,799	47,428	21,258	117,732	9,786	2,322	273
Texas Tech U.	86	197,739	33,938	27,357	108,999	12,221	14,929	295
U. Vermont	87	195,320	103,554	727	74,407	1,989	8,801	5,842
U. Arkansas for Medical Sciences	88	194,709	83,387	24,809	63,526	13,493	4,730	4,764
Montana State U., Bozeman	89	193,577	113,257	17,738	52,653	2,084	4,742	3,103
Wichita State U.	90	192,042	77,427	6,161	20,493	86,621	297	1,043
U. California, Riverside	91	189,600	97,182	11,424	49,131	6,809	7,703	17,351
U. Texas Medical Branch	92	185,759	117,915	7,739	39,565	8,424	12,116	0
U. Louisiana, Lafayette	93	181,400	65,436	7,472	40,891	67,346	255	0
U. Nevada, Reno	94	175,386	77,246	7,001	74,924	2,919	1,698	11,598
U. Alaska, Fairbanks	95	172,957	128,229	1,956	36,765	2,534	1,758	1,715
U. New Hampshire	96	167,373	99,323	7,547	47,286	7,870	3,511	1,836
New Jersey Institute of Technology	97	166,587	77,057	13,030	60,952	1,278	6,242	8,028

TABLE 37

**Higher education R&D expenditures at public institutions, ranked by all R&D expenditures, by source of funds: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U. Arkansas, Fayetteville	98	164,443	48,534	50,207	51,933	6,561	6,257	951
North Dakota State U.	99	164,050	42,824	43,787	69,112	1,508	536	6,283
U. California, Santa Cruz	100	160,615	86,263	4,943	31,668	7,273	16,325	14,143
U. Alabama, Huntsville	101	149,792	116,971	4,743	26,294	688	610	486
U. Maine	102	146,801	65,249	17,875	56,407	3,612	2,857	801
U. Texas, San Antonio	103	145,362	42,952	17,629	67,130	5,196	9,854	2,601
U. North Dakota	104	143,506	58,463	34,750	41,133	8,194	740	226
U. Oregon	105	139,193	82,242	769	48,194	1,611	5,448	929
U. Alabama, Tuscaloosa	106	129,509	53,880	15,693	55,682	2,679	1,291	284
U. Rhode Island	107	129,296	78,923	7,798	37,252	2,060	2,034	1,229
U. Texas, Arlington	108	126,477	46,946	19,262	49,685	3,006	6,131	1,447
SUNY, Binghamton U.	109	124,565	23,225	6,737	89,466	3,399	962	776
U. Texas, Dallas	110	122,825	58,249	11,065	29,308	6,581	17,622	0
U. Montana, Missoula	111	121,571	70,686	907	46,982	601	2,017	378
Augusta U.	112	116,480	61,943	200	46,412	3,282	4,531	112
U. Mississippi	113	116,175	76,886	4,165	28,869	2,600	3,165	490
SUNY, U. Albany	114	114,501	56,425	1,749	49,949	573	2,735	3,070
New Mexico State U.	115	110,580	64,699	22,094	13,581	2,562	1,982	5,662
U. Tennessee, Health Science Center	116	109,562	56,021	5,433	30,132	3,708	7,514	6,754
U. Texas, El Paso	117	109,410	43,930	19,841	34,866	994	3,441	6,338
San Diego State U.	118	107,681	43,473	4,107	56,085	523	2,340	1,153
U. Idaho	119	105,895	51,021	33,391	16,337	1,794	586	2,766
U. Nevada, Las Vegas	120	101,009	27,178	2,902	67,657	905	467	1,900
U. Massachusetts, Lowell	121	94,708	48,179	4,201	36,562	3,444	1,664	658
U. Wyoming	122	93,202	54,444	4,681	26,166	6,088	1,756	67
U. Maryland, Baltimore County	123	84,418	59,882	7,220	12,334	1,860	1,979	1,143
Michigan Technological U.	124	81,715	41,505	576	30,768	7,078	422	1,366
Colorado School of Mines	125	81,443	61,421	1,351	3,657	9,036	1,990	3,988
U. North Texas, Denton	126	81,252	18,702	5,567	53,591	1,992	1,329	71
Texas State U.	127	72,510	31,116	3,949	31,792	765	4,888	0
Cleveland State U.	128	71,451	47,402	1,458	16,391	1,755	4,303	142
Northern Arizona U.	129	69,129	41,744	10,179	14,963	839	1,286	118
William & Mary	130	68,801	29,928	3,895	28,188	543	4,453	1,794

TABLE 37

**Higher education R&D expenditures at public institutions, ranked by all R&D expenditures, by source of funds: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U. Southern Mississippi	131	67,417	44,401	11,576	9,499	1,239	655	47
U. Memphis	132	67,092	21,578	7,208	34,139	814	3,142	211
Indiana U.-Purdue U., Indianapolis	133	65,330	30,290	687	27,359	1,855	4,970	169
Naval Postgraduate School	134	65,101	54,855	0	9,608	264	62	312
U. Massachusetts, Boston	135	63,723	23,673	7,113	25,532	2,222	4,829	354
Old Dominion U.	136	62,332	25,514	17,685	14,098	918	3,565	552
San Jose State U.	137	60,100	30,877	7,617	19,350	1,080	1,071	105
Florida Atlantic U.	138	58,471	28,510	5,852	13,984	2,762	4,968	2,395
U. Texas Rio Grande Valley	139	58,187	13,018	6,945	29,053	265	8,701	205
CUNY, City C.	140	57,361	34,218	9,824	11,311	691	1,045	272
U. Wisconsin-Milwaukee	141	55,664	24,397	15,783	11,939	1,596	924	1,025
Missouri U. of Science and Technology	142	54,437	26,164	172	19,872	4,007	616	3,606
U. Toledo	143	53,169	32,601	884	14,308	2,718	2,592	66
U. North Carolina, Charlotte	144	51,877	27,145	9,921	11,654	2,349	753	55
East Carolina U.	145	51,662	22,813	787	21,450	4,387	1,858	367
South Dakota State U.	146	51,542	18,607	15,713	3,929	1,304	2,820	9,169
U. Maryland Center for Environmental Science	147	51,201	14,072	25,740	8,670	496	1,636	587
U. California, Office of the President	148	50,848	653	29,282	20,864	0	0	49
U. North Texas, Health Science Center	149	50,698	32,464	9,224	6,615	1,633	626	136
Kent State U.	150	50,408	15,179	1,379	31,409	573	1,700	168
Ohio U.	151	49,764	19,164	883	24,765	3,433	1,040	479
U. South Alabama	152	47,610	23,758	345	19,099	3,466	211	731
Southern Illinois U., Carbondale	153	47,210	12,655	492	25,725	7,901	437	0
Florida A&M U.	154	47,124	36,761	5,741	3,886	566	170	0
Boise State U.	155	46,065	31,357	2,402	10,836	576	670	224
U. California, Merced	156	45,964	18,621	7,048	14,224	373	1,290	4,408
Air Force Institute of Technology	157	45,703	27,025	0	18,015	663	0	0
SUNY, Upstate Medical U.	158	44,870	24,974	2,333	9,193	4,314	2,647	1,409
Louisiana State U., Health Sciences Center, New Orleans	159	44,370	34,272	244	3,743	2,800	3,178	133
U. Puerto Rico, Medical Sciences Campus	160	44,111	33,262	1,838	6,320	2,688	0	3
Texas Tech U., Health Sciences Center	161	41,583	12,148	16,670	8,153	342	1,268	3,002
Portland State U.	162	41,311	29,842	3,576	4,722	847	1,724	600
North Carolina Agricultural and Technical State U.	163	40,751	25,755	542	14,005	149	257	43

TABLE 37

**Higher education R&D expenditures at public institutions, ranked by all R&D expenditures, by source of funds: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Georgia Southern U.	164	37,201	3,373	259	29,635	3,482	452	0
U. North Carolina, Greensboro	165	37,033	24,423	363	10,842	106	401	898
U. West Florida	166	36,837	13,313	170	22,485	614	255	0
San Francisco State U.	167	35,768	15,993	2,305	16,710	0	743	17
SUNY, Downstate Health Sciences U.	168	34,459	27,620	23	5,397	354	950	115
U. Missouri, Kansas City	169	33,855	21,203	122	9,896	451	763	1,420
CUNY, Hunter C.	170	33,816	23,166	2,359	7,156	85	471	579
U.S. Air Force Academy	171	32,086	31,818	0	200	68	0	0
Texas A&M U.-Corpus Christi	172	30,500	10,967	9,110	4,589	603	2,642	2,589
U. Puerto Rico, Rio Piedras	173	28,896	15,108	150	13,026	181	348	83
New Mexico Institute of Mining and Technology	174	28,745	24,900	631	1,654	1,236	191	133
U. Massachusetts, Dartmouth	175	28,729	8,223	1,422	16,908	1,488	513	175
SUNY, C. of Environmental Science and Forestry	176	28,440	6,979	12,203	7,152	580	752	774
U. Texas Health Science Center, Tyler	177	27,928	12,007	6,884	3,545	111	5,381	0
U. South Dakota	178	27,537	11,664	1,772	13,629	0	472	0
Louisiana Tech U.	179	27,417	6,428	2,767	15,465	937	0	1,820
Tennessee State U.	180	26,880	20,378	455	5,986	43	18	0
Rowan U.	181	26,458	17,400	4,442	2,700	677	1,239	0
Desert Research Institute	182	26,365	16,641	378	3,572	521	4,109	1,144
Wright State U.	183	26,259	19,617	584	4,999	415	582	62
California Polytechnic State U., San Luis Obispo	184	25,953	11,163	2,537	9,139	1,053	2,003	58
Western Michigan U. and Homer Stryker M.D. School of Medicine	185	25,314	13,944	1,074	7,033	1,697	547	1,019
Northern Illinois U.	186	25,261	9,080	899	14,630	155	467	30
Miami U.	187	25,138	9,412	1,610	12,023	1,249	508	336
Louisiana State U., Health Sciences Center, Shreveport	188	24,600	12,359	19	8,765	297	3,160	0
Illinois State U.	189	24,152	9,787	746	12,813	25	772	9
Rutgers, State U. New Jersey, Newark	190	23,854	16,281	573	5,723	8	879	390
U. Minnesota, Duluth	191	23,767	5,325	6,341	11,624	381	77	19
California State U., Sacramento	192	23,699	5,582	11,012	5,344	147	508	1,106
Marshall U.	193	23,620	12,854	1,040	8,589	226	911	0
Texas A&M U.-Kingsville	194	23,578	9,265	4,652	3,614	353	5,468	226
Delaware State U.	195	23,193	16,460	2,432	4,094	195	12	0
Middle Tennessee State U.	196	22,531	4,150	480	16,884	259	758	0



TABLE 37

**Higher education R&D expenditures at public institutions, ranked by all R&D expenditures, by source of funds: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Central Michigan U.	197	21,726	6,919	26	13,477	109	952	243
U. Alaska, Anchorage	198	21,332	15,079	1,631	3,747	348	356	171
U. Nebraska, central administration	199	21,295	20,675	250	0	50	250	70
Morgan State U.	200	20,628	16,319	2,782	389	225	571	342
Oakland U.	201	20,261	7,426	1,694	8,499	1,023	1,423	196
California State U., East Bay	202	20,108	9,275	1,443	7,470	1,033	349	538
U.S. Military Academy	203	19,696	13,708	0	3,980	45	268	1,695
Eastern Virginia Medical School	204	19,415	14,774	176	2,384	1,298	783	0
U. Nebraska, Omaha	205	19,006	13,503	1,855	3,125	201	177	145
Kennesaw State U.	206	18,880	3,104	619	13,722	318	1,032	85
Bowling Green State U.	207	18,619	7,263	1,333	9,178	84	754	7
East Tennessee State U.	208	18,449	8,358	20	4,902	134	4,785	250
U. Puerto Rico, Mayaguez	209	18,368	13,073	33	5,148	37	0	77
Southern Illinois U., Edwardsville	210	18,044	3,844	71	13,848	221	22	38
U. Colorado Denver <sup>b</sup>	211	18,039	11,866	3,047	804	493	1,671	158
Tarleton State U.	212	17,729	4,620	3,749	8,949	263	148	0
U. Guam	213	17,666	14,316	1,705	1,465	24	156	0
Prairie View A&M U.	214	17,582	9,566	4,041	3,421	115	439	0
Montclair State U.	215	17,390	4,146	543	10,479	41	2,163	18
U. Akron	216	17,340	9,024	442	4,217	2,093	653	911
U. New Orleans	217	16,979	3,674	748	10,069	372	1,159	957
U. North Carolina, Wilmington	218	16,656	6,852	5,748	2,150	867	951	88
California State U., Northridge	219	16,573	13,989	353	1,051	81	1,099	0
Jackson State U.	220	16,157	14,038	0	1,426	198	473	22
CUNY, Queens C.	221	16,063	12,386	1,241	1,776	149	425	86
U. North Florida	222	15,782	7,267	1,297	7,084	47	64	23
South Dakota School of Mines and Technology	223	15,746	11,587	1,345	1,944	569	76	225
CUNY, Advanced Science Research Center	224	15,403	11,840	357	1,943	251	702	310
Tennessee Technological U.	225	15,387	7,625	4,363	3,008	111	76	204
U. of the Virgin Islands	226	15,231	13,099	1,818	17	142	155	0
California State U., Long Beach	227	15,134	11,178	877	1,113	195	528	1,243
CUNY, Graduate School of Public Health and Health Policy	228	15,035	12,254	76	1,206	0	1,343	156
Montana Technological U.	229	14,933	6,133	5,658	2,739	402	0	1

TABLE 37

## Higher education R&amp;D expenditures at public institutions, ranked by all R&amp;D expenditures, by source of funds: FY 2021

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
James Madison U.	230	14,687	2,379	349	11,111	330	507	11
U. Baltimore	231	14,672	11,692	1,907	NA	0	745	328
U. Missouri, Saint Louis	232	14,632	5,812	5	5,549	96	2,804	366
Alcorn State U.	233	14,188	7,593	4,457	2,103	6	29	0
North Carolina Central U.	234	14,105	10,676	976	NA	503	844	1,106
Humboldt State U.	235	14,103	1,975	3,971	3,818	164	2,108	2,067
Idaho State U.	236	13,953	7,216	1,982	3,937	387	264	167
Northeast Ohio Medical U.	237	13,853	9,999	14	3,182	0	658	0
Western Washington U.	238	13,450	4,290	1,107	6,665	137	1,203	48
Sam Houston State U.	239	13,315	5,632	232	6,985	29	416	21
U. Hawaii, system office	240	12,918	12,688	17	213	0	0	0
CUNY, John Jay C. of Criminal Justice	241	11,791	3,519	3,037	2,521	37	2,597	80
California State U., San Bernardino	242	11,607	5,867	2,928	2,652	20	140	0
Texas Tech U., Health Sciences Center, El Paso	243	11,360	1,831	2,829	6,064	395	241	0
U. Tennessee, Chattanooga	244	11,192	4,507	705	5,296	65	223	396
Rhode Island C.	245	10,990	4,894	5,593	64	0	439	0
U.S. Naval Academy	246	10,818	10,247	0	169	0	402	0
Salisbury U.	247	10,552	3,271	3,604	3,567	8	102	0
California State U., San Marcos	248	10,213	8,831	1,110	267	0	5	0
Virginia State U.	249	10,123	4,846	2,278	2,602	0	397	0
Missouri State U.	250	10,014	8,931	196	735	132	20	0
West Texas A&M U.	251	9,920	2,195	5,258	1,554	832	31	50
California State U., Los Angeles	252	9,382	7,342	108	1,561	0	371	0
California State U., Fresno	253	9,213	4,101	1,086	2,278	186	1,232	330
Texas Southern U.	254	9,128	5,562	760	2,692	0	114	0
Alabama A&M U.	255	9,065	5,967	2,534	447	117	0	0
California State U., Fullerton	256	9,006	4,551	251	3,904	97	203	0
Ball State U.	257	8,826	2,469	266	5,153	702	236	0
Kentucky State U.	258	8,756	3,716	4,870	0	72	98	0
Central State U.	259	8,751	4,165	2,866	1,720	0	0	0
U. Arkansas, Pine Bluff	260	8,713	3,960	2,216	2,502	0	35	0
U. Maryland, Eastern Shore	261	8,636	8,346	153	10	19	0	108
Arkansas State U., Jonesboro	262	8,422	4,249	3,103	721	349	0	0

TABLE 37

**Higher education R&D expenditures at public institutions, ranked by all R&D expenditures, by source of funds: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U. Washington, Bothell	263	8,311	2,956	86	814	0	4,386	69
Florida Gulf Coast U.	264	8,197	4,467	3,160	0	136	434	0
Winston-Salem State U.	265	8,123	4,841	1,690	NA	0	1,077	515
U. of the District of Columbia	266	8,104	6,851	1,253	0	0	0	0
William Paterson U.	267	7,867	1,893	25	5,678	11	113	147
Oklahoma State U., Center for Health Sciences	268	7,758	2,304	127	5,241	56	30	0
Lincoln U., Jefferson City	269	7,621	5,621	2,000	NA	0	0	0
U. Michigan, Dearborn	270	7,472	2,366	22	2,794	1,911	271	108
U. Hawaii, Hilo	271	7,411	5,510	53	1,260	166	421	1
U. Arkansas, Little Rock	272	7,397	6,939	79	3	139	94	143
Eastern Michigan U.	273	7,233	2,237	185	4,618	71	119	3
U. Oklahoma, Tulsa	274	7,185	1,267	493	4,182	72	696	475
California State Polytechnic U., Pomona	275	7,011	4,396	846	1,469	141	159	0
Western Kentucky U.	276	6,944	2,348	377	4,035	105	60	19
California State U., Monterey Bay	277	6,882	3,813	1,277	1,610	3	172	7
Grand Valley State U.	278	6,809	1,415	418	3,398	0	1,023	555
West Virginia State U.	279	6,565	4,119	1,566	877	0	3	0
C. Charleston	280	6,361	4,126	304	1,458	0	377	96
Langston U.	281	6,345	3,089	2	2,645	609	0	0
CUNY, Brooklyn C.	282	6,318	4,505	64	1,242	105	339	63
California State U., Bakersfield	283	6,253	3,827	215	2,160	0	51	0
Indiana U. Pennsylvania	284	6,180	1,503	331	3,718	7	607	14
Southern U. and A&M C., Agricultural Research and Extension Center	285	6,164	3,588	2,556	20	0	0	0
U. Central Oklahoma	286	5,997	1,516	644	3,761	73	3	0
Southern Connecticut State U.	287	5,750	713	90	4,245	0	473	229
Purdue U., Northwest	288	5,647	2,280	531	1,536	667	93	540
Naval War C.	289	5,542	5,542	0	0	0	0	0
Pennsylvania State U., Behrend	290	5,509	2,286	428	1,157	494	1,142	2
U. Southern Maine	291	5,480	2,020	2,903	301	0	190	66
U. Colorado Colorado Springs	292	5,338	3,942	504	338	518	36	0
Rutgers, State U. New Jersey, Camden	293	5,142	2,905	16	1,423	123	612	63
Southern U. and A&M C., Baton Rouge	294	4,943	3,770	95	374	704	0	0
Texas Woman's U.	294	4,943	1,514	1,853	893	75	608	0

TABLE 37

**Higher education R&D expenditures at public institutions, ranked by all R&D expenditures, by source of funds: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U. North Carolina, Asheville	296	4,844	2,322	346	440	30	1,706	0
Fort Valley State U.	297	4,842	4,429	42	371	0	0	0
Lamar U.	298	4,734	1,873	2,047	65	145	500	104
U.S. Army War C.	299	4,662	4,662	0	0	0	0	0
Appalachian State U.	300	4,509	1,694	229	2,106	365	115	0
West Chester U. Pennsylvania	301	4,433	608	66	3,540	27	119	73
U. Wisconsin-Stevens Point	302	4,401	1,776	1,010	1,289	12	121	193
Norfolk State U.	303	4,316	3,976	0	0	52	35	253
Oregon Institute of Technology	304	4,314	252	3,792	NA	94	176	0
U. Washington, Tacoma	305	4,291	3,459	349	234	0	99	150
CUNY, Graduate Center	306	4,265	2,496	128	87	0	980	574
California State U., Chico	307	4,209	2,258	792	505	69	128	457
CUNY, Lehman C.	308	4,181	3,382	0	419	171	102	107
U. North Carolina, general administration	309	4,024	408	3,616	0	0	0	0
U. Central Arkansas	310	3,990	1,640	869	1,281	0	200	0
Fayetteville State U.	311	3,933	1,988	519	1,238	128	60	0
South Carolina State U.	311	3,933	3,933	NA	NA	NA	NA	NA
Murray State U.	313	3,844	2,721	21	982	120	0	0
Texas A&M U.-Commerce	314	3,827	1,283	76	2,300	8	141	19
Towson U.	315	3,794	1,758	153	1,608	42	181	52
National Defense U.	316	3,786	3,786	0	0	0	0	0
Texas A&M International U.	317	3,740	1,243	797	965	85	628	22
U. Massachusetts, central office	318	3,541	342	2,417	256	1	504	21
Kean U.	319	3,538	362	318	2,783	70	5	0
Western Illinois U.	320	3,532	3,163	4	86	176	48	55
U. Texas of the Permian Basin	321	3,504	1,762	460	522	54	706	0
SUNY, C. of Optometry	322	3,460	2,105	0	437	907	10	1
Dakota State U.	323	3,416	2,603	218	376	201	0	18
Northern Kentucky U.	324	3,403	2,156	13	774	2	458	0
U. Virginia's C. Wise	325	3,310	1,307	1,267	718	0	9	9
U. Northern Iowa	326	3,259	1,995	530	654	0	80	0
Stephen F. Austin State U.	327	3,204	1,029	1,323	543	13	164	132
U. Nebraska, Kearney	328	3,201	1,327	746	1,081	37	10	0

TABLE 37

**Higher education R&D expenditures at public institutions, ranked by all R&D expenditures, by source of funds: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U. Northern Colorado	329	3,159	1,942	46	945	8	218	0
U. Wisconsin-La Crosse	330	3,001	895	862	807	365	63	9
Colorado State U., Pueblo	331	2,990	1,508	1,244	201	0	0	37
Sonoma State U.	332	2,957	2,212	366	261	69	49	0
Pennsylvania State U., Harrisburg	333	2,938	1,616	340	525	191	211	55
CUNY, C. Staten Island	334	2,860	2,234	165	277	0	76	108
Western Carolina U.	335	2,847	1,697	309	655	137	49	0
Northwest Indian C.	336	2,806	2,621	0	32	0	153	0
California State U., Maritime Academy	337	2,799	548	131	18	2,102	0	0
Youngstown State U.	338	2,775	2,198	206	278	77	16	0
Austin Peay State U.	339	2,740	597	1,263	859	0	12	9
Pittsburg State U.	340	2,730	759	1,001	NA	969	1	0
California State U., Dominguez Hills	341	2,690	2,001	19	670	0	0	0
Christopher Newport U.	342	2,656	1,497	2	919	89	149	0
Alabama State U.	343	2,631	2,338	0	0	287	6	0
U. Illinois, Springfield	344	2,612	1,071	670	839	0	32	0
U. Wisconsin-Superior	345	2,602	1,843	148	490	16	42	63
Winthrop U.	346	2,586	1,495	351	632	3	105	0
CUNY, Baruch C.	347	2,521	1,691	0	531	0	204	95
Purdue U., Fort Wayne	348	2,495	401	513	818	141	50	572
Saginaw Valley State U.	349	2,428	1,899	0	394	5	114	16
Central Washington U.	350	2,410	1,778	185	346	55	46	0
Framingham State U.	351	2,401	188	0	0	81	2,132	0
St. Cloud State U.	352	2,379	577	429	725	403	245	0
California State U., Channel Islands	353	2,341	993	611	542	186	9	0
U. Texas, Tyler	354	2,279	929	153	649	238	252	58
Coastal Carolina U.	355	2,245	948	864	391	0	42	0
U. Louisiana, Monroe	356	2,198	1,465	569	8	0	156	0
Minnesota State U., Mankato	357	2,170	575	154	1,147	0	184	110
Sul Ross State U.	358	2,143	505	130	123	26	810	549
Grambling State U.	359	2,124	731	595	798	0	0	0
California State U., Stanislaus	360	2,085	1,354	104	112	504	11	0
SUNY, Geneseo	361	2,070	1,273	10	780	0	7	0

TABLE 37

**Higher education R&D expenditures at public institutions, ranked by all R&D expenditures, by source of funds: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Citadel Military C. South Carolina	362	2,054	1,714	53	174	80	27	6
U. South Carolina, Aiken	363	2,042	1,884	0	154	0	4	0
SUNY, Buffalo State	364	1,962	977	682	210	24	64	5
Fort Lewis C.	365	1,926	1,746	14	124	42	0	0
Eastern Washington U.	366	1,921	775	965	NA	20	109	52
Northeastern Illinois U.	367	1,913	1,913	0	0	0	0	0
C. New Jersey	368	1,912	1,079	56	327	57	393	0
U. Puerto Rico, Cayey	369	1,881	1,202	0	539	11	129	0
U. Wisconsin-Green Bay	370	1,879	876	441	454	25	83	0
U. Wisconsin-Eau Claire	371	1,852	909	410	308	83	139	3
U. Houston-Downtown	372	1,828	1,169	72	215	0	372	0
Savannah State U.	373	1,804	1,804	0	0	0	0	0
Morehead State U.	374	1,754	1,727	3	12	11	1	0
Southeastern Louisiana U.	375	1,723	795	55	663	197	13	0
Elizabeth City State U.	376	1,717	1,603	52	NA	62	0	0
U. Houston-Clear Lake	377	1,716	865	620	80	107	44	0
CUNY, system office	378	1,664	768	363	105	68	360	0
Northwestern State U. Louisiana	379	1,663	738	634	291	0	0	0
U. Wisconsin-Oshkosh	380	1,656	1,083	94	415	31	33	0
Eastern Connecticut State U.	381	1,646	108	9	1,529	0	0	0
Troy U.	382	1,548	1,488	0	35	25	0	0
U. North Georgia	383	1,415	497	3	693	1	221	0
Bowie State U.	384	1,398	1,398	0	0	0	0	0
CUNY, New York City C. of Technology	385	1,367	1,197	0	129	31	0	10
Northern Michigan U.	386	1,364	366	8	769	0	127	94
U. Puerto Rico, Humacao	387	1,321	1,137	0	184	0	0	0
Central Connecticut State U.	388	1,314	663	254	390	0	7	0
Black Hills State U.	389	1,280	1,124	76	80	0	0	0
SUNY, C. Plattsburgh	389	1,280	824	61	358	0	32	5
Florida Polytechnic U.	391	1,269	459	91	606	89	17	7
West Virginia School of Osteopathic Medicine	392	1,255	423	31	801	0	0	0
Stockton U.	393	1,246	486	147	572	0	41	0
U. Alaska, Southeast	394	1,176	1,046	30	35	4	54	7

TABLE 37

**Higher education R&D expenditures at public institutions, ranked by all R&D expenditures, by source of funds: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U. Wisconsin-Platteville	395	1,144 i	353 i	294 i	194 i	264 i	30 i	9 i
CUNY, York C.	396	1,133	922	0	168	0	43	0
New Mexico Highlands U.	397	1,129 i	1,085 i	0 i	0 i	0 i	44 i	0 i
U. of Mary Washington	398	1,123	485	100	480	2	25	31
SUNY, C. Brockport	399	1,114	500	211	268	32	74	29
Indiana State U.	400	1,042	582	244	135	68	13	0
SUNY, Oswego	401	1,003	415	81	439	42	14	12
U. Wisconsin-River Falls	402	999	212	588	3	141	0	55
Eastern Kentucky U.	403	986	530	76	351	0	29	0
U. Hawaii, Maui C.	404	967	951	0	16	0	0	0
Keene State C.	405	919	894	0	25	0	0	0
Indiana U., South Bend	406	898	337	0	423	0	138	0
Albany State U.	407	880	552	203	0	125	0	0
U. Minnesota, Morris	408	855	162	170	502	0	21	0
American Samoa Community C.	409	815	815	0	0	0	0	0
Fort Hays State U.	410	800	482	37	185	48	6	42
U. Michigan, Flint	411	752	113	0	367	203	38	31
Jacksonville State U.	412	275	245	0	30	0	0	0

i = imputed. NA = not available; data were not provided by institution.

<sup>a</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

<sup>b</sup> The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

<sup>c</sup> The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

**Note(s):**

Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2021.

TABLE 38

**Higher education R&D expenditures at private institutions, ranked by all R&D expenditures, by source of funds: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
All institutions	-	31,056,069	19,040,045	380,383	6,403,768	2,031,949	2,429,532	770,392
Johns Hopkins U. <sup>a</sup>	1	3,181,385	2,774,643	4,677	147,355	103,162	145,027	6,521
U. Pennsylvania	2	1,631,950	792,089	20,733	511,958	190,755	111,885	4,530
Stanford U.	3	1,274,483	811,183	17,802	136,444	113,691	186,565	8,798
Harvard U.	4	1,254,008	616,589	5,137	384,197	55,357	172,327	20,401
Duke U.	5	1,237,686	776,632	1,073	153,692	187,864	98,223	20,202
Cornell U.	6	1,183,524	592,359	87,821	220,800	43,950	115,910	122,684
Yale U.	7	1,165,148	647,656	4,859	334,314	76,784	92,343	9,192
Columbia U. in the City of New York	8	1,098,570	831,648	7,173	79,363	71,239	106,884	2,263
New York U.	9	1,063,704	547,027	13,191	243,805	51,800	90,401	117,480
Vanderbilt U. and Vanderbilt U. Medical Center	10	1,019,273	586,880	2,897	313,810	81,360	31,526	2,800
Washington U., Saint Louis	11	989,214	606,127	1,471	188,980	105,176	85,060	2,400
U. Southern California	12	955,565	574,185	14,664	179,130	61,867	56,073	69,646
Massachusetts Institute of Technology	13	949,076	483,526	3,213	116,258	177,759	92,386	75,934
Northwestern U.	14	913,178	572,975	141	227,719	54,888	47,280	10,175
Emory U.	15	852,922	515,940	298	213,741	58,517	62,768	1,658
Icahn School of Medicine at Mount Sinai	16	820,260	554,582	5,500	137,874	59,235	48,289	14,780
Baylor C. of Medicine	17	716,976	365,472	34,447	239,079	29,465	48,513	0
Boston U.	18	652,096	402,443	501	160,347	20,071	45,146	23,588
U. Chicago	19	497,651	394,275	3	32,174	38,215	32,167	817
Scripps Research Institute	20	485,435	272,181	2,103	147,290	22,399	41,462	0
California Institute of Technology	21	438,624	293,197	8,142	50,562	17,193	47,355	22,175
Case Western Reserve U.	22	421,868	340,438	4,557	50,526	4,035	19,766	2,546
U. Rochester	23	409,255	309,647	3,074	41,775	34,036	15,949	4,774
Princeton U.	24	404,448	205,000	281	86,675	20,200	57,700	34,592
Carnegie Mellon U.	25	402,376	234,993	3,675	114,892	34,473	10,503	3,840
U. Miami	26	375,841	231,001	15,057	69,955	34,768	24,311	749
Rockefeller U.	27	357,543	96,318	656	218,134	3,210	38,301	924
Dartmouth C. and Dartmouth Hitchcock Medical Center	28	330,226	152,335	1,446	144,008	4,723	19,660	8,054
Albert Einstein C. of Medicine	29	301,715	214,619	1,764	67,563	4,184	13,585	0
Georgetown U.	30	279,932	130,419	1,405	51,440	16,888	57,585	22,195
Medical C. Wisconsin	31	276,850	136,385	640	85,666	23,118	25,747	5,294
Brown U.	32	276,331	198,574	28	50,127	4,925	19,410	3,267



TABLE 38

**Higher education R&D expenditures at private institutions, ranked by all R&D expenditures, by source of funds: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
George Washington U.	33	266,108	161,349	2,296	63,225	4,155	26,131	8,952
Wake Forest U.	34	264,216	188,887	12,370	23,080	15,449	16,849	7,581
Woods Hole Oceanographic Institution	35	262,048	222,351	1,029	16,006	2,804	9,792	10,066
U. Notre Dame	36	240,324	109,891	665	84,208	13,499	17,293	14,768
Tufts U.	37	224,956	166,809	3,242	15,442	8,655	26,955	3,853
Northeastern U.	38	211,342	143,421	2,227	44,964	9,547	10,718	465
Rice U.	39	207,404	95,648	7,372	62,352	7,123	30,638	4,271
Tulane U.	40	205,206	113,819	4,442	49,660	8,279	15,569	13,437
Thomas Jefferson U.	41	200,393	109,448	2,542	47,728	18,591	10,704	11,380
U. Dayton	42	191,228	181,445	425	2,288	6,277	272	521
Drexel U.	43	152,752	93,517	4,601	36,063	3,196	8,682	6,693
Syracuse U.	44	151,717	34,200	4,328	96,162	6,481	10,501	45
Rensselaer Polytechnic Institute	45	119,056	52,465	3,714	40,932	16,432	1,917	3,596
Cold Spring Harbor Laboratory	46	114,903	56,907	21	35,757	3,333	18,885	0
Brandeis U.	47	107,549	52,147	404	34,998	1,418	9,045	9,537
Rush U.	48	107,398	73,279	1,338	9,645	15,329	7,807	0
Saint Louis U.	49	79,005	41,411	548	24,824	3,614	8,537	71
American U.	50	65,912	12,076	513	42,117	774	9,199	1,233
Van Andel Research Institute	51	65,789	22,231	703	32,688	90	3,610	6,467
Boston C.	52	65,156	34,257	1,632	12,870	522	15,071	804
Rochester Institute of Technology	53	56,043	31,187	5,213	15,139	2,563	558	1,383
Howard U.	54	52,412	35,443	1,176	12,094	2,860	839	0
Mercer U.	55	51,989	34,413	76	9,056	5,342	82	3,020
Baylor U.	56	48,809	11,025	1,892	26,678	3,116	4,510	1,588
Worcester Polytechnic Institute	57	48,702	30,166	1,262	9,301	3,296	2,533	2,144
Loyola U., Chicago	58	44,036	26,793	188	8,941	3,359	3,695	1,060
Brigham Young U., Provo	59	43,916	30,439	1,217	6,514	3,592	1,772	382
Stevens Institute of Technology	60	43,386	33,998	1,642	5,491	1,403	675	177
Southern Methodist U.	61	41,960	17,886	1,039	18,643	2,072	2,144	176
Lehigh U.	62	41,279	29,051	2,243	8,806	531	613	35
U. Denver	63	38,751	23,415	951	6,869	1,740	5,281	495
Marquette U.	64	37,087	13,918	365	14,809	947	2,042	5,006
Catholic U. of America	65	35,548	23,128	150	5,753	624	1,013	4,880

TABLE 38

**Higher education R&D expenditures at private institutions, ranked by all R&D expenditures, by source of funds: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Morehouse School of Medicine	66	32,637	25,181	611	3,622	0	3,223	0
Illinois Institute of Technology	67	29,698	24,762	291	2,080	1,074	861	630
Chapman U.	68	25,820	8,574	612	10,273	567	5,766	28
Villanova U.	69	24,723	5,826	1,372	15,623	381	1,368	153
Nova Southeastern U.	70	24,513	10,386	3,636	9,152	486	629	224
Teachers C., Columbia U.	71	24,335	8,521	700	NA	1,700	10,914	2,500
Ponce Health Sciences U.	72	23,297	18,284	685	2,472	1,683	173	0
Creighton U.	73	23,251	8,585	4,347	7,115	1,478	542	1,184
Florida Institute of Technology	74	23,195	13,049	1,743	6,485	824	703	391
Albany Medical C.	75	22,443	13,166	0	3,324	3,788	709	1,456
Tuskegee U.	76	21,355	15,424	2,676	2,724	0	0	531
Embry-Riddle Aeronautical U.	77	19,830	14,859	103	1,365	1,195	426	1,882
New York Medical C.	78	18,872	10,739	1,098	794	4,002	1,503	736
Clarkson U.	79	16,765	7,246	1,426	5,725	1,147	871	350
Fordham U.	80	16,731	4,076	25	10,871	83	1,011	665
U. Tulsa	81	16,449	5,876	361	2,454	7,397	320	41
Meharry Medical C.	82	15,840	13,784	0	565	1	1,490	0
Texas Christian U.	83	15,336	4,448	438	8,684	1,670	23	73
Long Island U.	84	15,059	2,686	0	12,040	36	271	26
New School	85	14,281	1,324	86	2,762	30	7,709	2,370
Loma Linda U.	86	14,029	10,116	444	1,932	241	1,160	136
Rosalind Franklin U. of Medicine and Science	87	13,805	9,357	0	3,219	520	705	4
Charles R. Drew U. of Medicine and Science	88	13,228	9,945	151	2,834	0	298	0
Loyola Marymount U.	89	12,819	2,170	1,393	8,148	20	1,088	0
Xavier U. Louisiana	90	12,799	11,213	709	702	0	175	0
Hampton U.	91	11,669	11,517	0	152	0	0	0
Midwestern U.	92	10,961	1,506	22	9,040	178	215	0
Duquesne U.	93	10,521	5,020	1,138	2,788	146	1,429	0
St. Edward's U.	94	9,527	7,600	800	1,030	15	31	51
Bryn Mawr C.	95	8,987	1,429	0	7,285	18	255	0
Clark Atlanta U.	96	8,892	5,355	0	3,435	57	45	0
Wesleyan U.	97	8,009	4,032	0	3,004	62	854	57
Clark U.	98	7,931	2,754	74	3,633	0	1,431	39

TABLE 38

## Higher education R&amp;D expenditures at private institutions, ranked by all R&amp;D expenditures, by source of funds: FY 2021

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U. San Diego	99	7,580	2,554	26	4,203	0	414	383
Claremont Graduate U.	100	7,235	1,152	306	1,275	1,518	2,355	629
Western U. of Health Sciences	101	6,688	5,620	312	124	365	260	7
DePaul U.	102	6,675	4,518	150	1,120	203	666	18
Edward Via C. of Osteopathic Medicine	103	6,629	537	0	5,879	31	182	0
Wellesley C.	104	6,252	3,469	204	NA	138	2,024	417
U. New England	105	6,234	3,864	6	2,022	89	253	0
Philadelphia C. of Osteopathic Medicine	106	6,186	318	55	2,837	1,220	1,756	0
Gallaudet U.	107	6,126	2,140	192	3,049	0	327	418
Roseman U. of Health Sciences	108	5,985	53	0	5,775	65	1	91
Hofstra U.	109	5,545	1,266	92	4,023	0	162	2
Colorado C.	110	5,467	3,725	385	575	0	782	0
Yeshiva U.	111	5,452	1,509	0	2,843	0	256	844
Seton Hall U.	112	5,320	2,137	1,977	730	95	381	0
Azusa Pacific U.	113	5,318	212	59	4,893	2	152	0
U. of Health Sciences and Pharmacy in St. Louis	114	5,313	4,063	0	759	462	29	0
Des Moines U.	115	5,258 i	485 i	266 i	4,247 i	3 i	257 i	0 i
Hope C.	116	5,211	1,992	493	1,463	0	1,207	56
U. of St. Thomas (MN)	117	5,146	1,321	66	1,213	1,690	559	297
Reed C.	118	5,132 i	1,916 i	32 i	2,782 i	0 i	291 i	111 i
High Tech High Graduate School of Ed.	119	5,032	0	0	0	0	5,032	0
Toyota Technological Institute, Chicago	120	4,967	3,090	0	1,602	232	43	0
Williams C.	121	4,902 i	1,152 i	0 i	1,625 i	0 i	134 i	1,991 i
Pacific U.	122	4,690	2,072	269	1,480	100	769	0
Amherst C.	123	4,636	1,375	0	1,895	0	71	1,295
Barnard C.	124	4,632	3,527	0	718	22	365	0
Abilene Christian U.	125	4,597	827	0	199	3,546	25	0
U. Detroit Mercy	126	4,578	3,917	0	649	12	0	0
Morehouse C.	127	4,533	4,533	0	0	0	0	0
Claremont McKenna C.	128	4,515	637	0	3,548	0	330	0
Bucknell U.	129	4,476	1,696	0	1,439	311	203	827
New York Institute of Technology	130	4,465	1,988	142	2,069	0	266	0
Fisk U.	131	4,320	3,940	24	0	0	356	0

TABLE 38

**Higher education R&D expenditures at private institutions, ranked by all R&D expenditures, by source of funds: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Grinnell C.	132	4,122	344	0	3,379	0	192	207
Smith C.	133	4,085	2,433	16	1,118	74	436	8
U. New Haven	134	4,069	2,069	434	209	418	832	107
U. of the Sciences Philadelphia	135	4,005	1,320	213	1,170	1,155	147	0
Haverford C.	136	3,835	2,455	0	631	0	308	441
U. Central del Caribe	137	3,831	2,492	223	1,050	0	0	66
Carleton C.	138	3,800	1,499	6	1,948	0	229	118
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	139	3,776	376	0	3,337	0	26	37
Franklin and Marshall C.	140	3,722	1,363	209	1,622	279	61	188
Albany C. of Pharmacy and Health Sciences	141	3,687	1,900	0	963	715	109	0
Pace U.	142	3,649	2,536	0	819	1	293	0
Occidental C.	143	3,587	2,348	395	NA	392	452	0
Touro U.	144	3,489	1,377	0	2,091	20	1	0
Colgate U.	145	3,306	1,440	0	1,515	75	261	15
Swarthmore C.	146	3,296	1,414	0	1,571	1	310	0
Milwaukee School of Engineering	147	3,193	751	10	54	2,377	1	0
Santa Clara U.	148	3,142	1,930	118	NA	558	536	0
MGH Institute of Health Professions	149	3,037	2,500	0	30	0	507	0
St. John's U., New York	150	2,940	1,950	0	254	200	393	143
Middlebury C.	151	2,927	2,639	0	17	0	261	10
Saint Joseph's U.	152	2,922	1,158	673	872	134	85	0
Trinity U.	153	2,905	1,078	29	812	5	913	68
Alfred U.	154	2,660	939	1,040	449	149	83	0
Pepperdine U.	155	2,655	835	16	1,444	0	355	5
Bates C.	156	2,620	2,079	0	188	0	165	188
Pratt Institute	157	2,547	294	835	38	0	1,380	0
Dillard U.	158	2,528	1,257	0	1,271	0	0	0
Davidson C.	159	2,466	1,151	7	771	24	421	92
Johnson C. Smith U.	160	2,461	2,365	52	0	4	40	0
Furman U.	161	2,431	1,028	2	1,259	15	77	50
Bowdoin C.	162	2,417	1,836	6	440	0	135	0
Harvey Mudd C.	163	2,359	1,443	0	695	11	98	112

TABLE 38

## Higher education R&amp;D expenditures at private institutions, ranked by all R&amp;D expenditures, by source of funds: FY 2021

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Skidmore C.	164	2,335	1,739	0	245	0	351	0
Marymount U.	165	2,307	337	125	1,779	0	66	0
U. Richmond	166	2,294	1,534	0	370	0	390	0
Spelman C.	167	2,282	1,886	0	279	117	0	0
Lewis and Clark C.	168	2,281	702	0	1,319	0	260	0
Keck Graduate Institute	169	2,254 i	1,201 i	0 i	697 i	144 i	35 i	177 i
Palmer C. of Chiropractic, Davenport	170	2,233	1,733	0	500	0	0	0
Pomona C.	171	2,146	930	9	1,140	0	67	0
Tougaloo C.	172	2,092 i	2,092 i	0 i	0 i	0 i	0 i	0 i
Suffolk U.	173	2,043	634	0	1,261	0	148	0
Elon U.	174	2,032	138	0	1,883	0	11	0
Mount Holyoke C.	175	2,026	1,539	0	200	0	287	0
U. of the Incarnate Word	176	1,982	1,076	0	785	83	38	0
New England C. of Optometry	177	1,978	1,623	26	149	175	5	0
Hobart and William Smith Colleges	178	1,941	758	662	391	0	73	57
Mercyhurst U.	179	1,937 i	745 i	584 i	608 i	0 i	0 i	0 i
Manhattan C.	180	1,864	397	505	406	556	0	0
Roger Williams U.	181	1,854	1,202	34	460	11	147	0
Hawaii Pacific U.	182	1,849	1,741	36	36	0	36	0
Willamette U.	183	1,817	896	33	761	0	127	0
Trinity C., Hartford	184	1,775	1,348	0	409	0	18	0
Lawrence Technological U.	185	1,764	284	701	2	434	343	0
Hamilton C.	186	1,747	286	0	827	0	374	260
Heidelberg U.	187	1,725	308	1,092	303	0	22	0
Erikson Institute	188	1,723	772	16	31	0	904	0
Colby C.	189	1,672	750	0	427	0	495	0
Monmouth U.	190	1,667	174	778	75	25	601	14
Franklin W. Olin C. of Engineering	191	1,627	636	0	478	15	481	17
Vassar C.	192	1,606	918	21	455	0	209	3
U. Ana G. Mendez, Gurabo	193	1,574	926	0	648	0	0	0
Seattle U.	194	1,562	1,102	54	129	0	270	7
La Sierra U.	195	1,517	812	0	137	0	568	0
Calvin U.	196	1,490 i	942 i	27 i	5 i	83 i	158 i	275 i

TABLE 38

**Higher education R&D expenditures at private institutions, ranked by all R&D expenditures, by source of funds: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Drake U.	197	1,488	1,016	8	157	233	74	0
Union C., Schenectady	198	1,396	976	0	340	7	64	9
U. San Francisco	199	1,375	255	200	466	0	434	20
U. of the Pacific	200	1,371	1,106	211	NA	11	43	0
Marshall B. Ketchum U.	201	1,351	343	0	668	340	0	0
Kettering U.	202	1,315	353	7	586	314	55	0
Babson C.	203	1,286	0	0	566	160	293	267
Macalester C.	204	1,280	617	4	568	0	91	0
U. Hartford	205	1,252	766	0	361	5	120	0
Connecticut C.	206	1,244	439	0	785	0	20	0
Biola U.	207	1,243	714	18	302	80	98	31
Doane U.	208	1,176	1,034	0	127	0	15	0
Albion C.	209	1,127	289	0	838	0	0	0
Saint John's U.	210	1,125	0	0	1,125	0	0	0
Northland C.	211	1,096	697	29	157	0	213	0
C. Wooster	212	1,071	300	0	683	0	88	0
C. of Saint Benedict	213	1,064	46	0	1,018	0	0	0
Alaska Pacific U.	214	1,036	189	0	0	817	17	13
Canisius C.	214	1,036	597	0	0	0	439	0
Ithaca C.	216	1,030	685	51	224	5	35	30
Clafin U.	217	1,015	1,005	0	0	0	10	0
Lafayette C.	217	1,015	508	4	417	0	75	11
Augustana U.	219	1,013	1,013	0	0	0	0	0
Sacred Heart U.	220	972	675	0	244	0	53	0
Rhode Island School of Design	221	971	250	41	416	215	49	0
Liberty U.	222	937	120	75	657	68	17	0
Arcadia U.	223	889	371	289	0	0	229	0
Mills C.	224	850	683	0	0	0	129	38
National U. of Natural Medicine	224	850	523	0	195	132	0	0
Fairfield U.	226	849	147	0	354	0	348	0
Fielding Graduate U.	227	843	791	0	52	0	0	0
St. Olaf C.	228	816	271	0	520	0	25	0
Andrews U.	229	802	256	3	441	0	102	0

TABLE 38

**Higher education R&D expenditures at private institutions, ranked by all R&D expenditures, by source of funds: FY 2021**

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Oberlin C.	230	776	505	0	160	67	44	0
Providence C.	231	766	574	0	124	0	68	0
Wheaton C., Wheaton	232	729	148	0	327	0	254	0
Dordt U.	233	696	594	0	88	0	14	0
Niagara U.	234	509	34	78	194	0	203	0
Albizu U.	235	428	0	126	272	0	0	30
Lipscomb U.	236	321	222	0	0	22	77	0

i = imputed. NA = not available; data were not provided by institution.

<sup>a</sup> Johns Hopkins University includes the Applied Physics Laboratory, with \$1,949,752 thousand in total R&D expenditures in FY 2021.

**Note(s):**

Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2021.

TABLE 39

**Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
All institutions	-	2,397,731	2,637,354	2,925,725	2,951,923	1,630,076	1,794,570	2,000,015	1,994,728
Johns Hopkins U. <sup>a</sup>	1	161,884 i	199,773 i	226,696 i	270,040 i	153,327	189,011	216,738	258,141
Carnegie Mellon U.	2	141,298	171,110	192,119	196,380	87,606	105,289	119,057	131,071
Georgia Institute of Technology	3	141,966	164,657	185,400	146,318	122,905	145,305	162,577	121,473
Massachusetts Institute of Technology	4	85,483	96,682	111,779	116,877	35,678	43,216	54,491	62,186
U. Southern California	5	119,500	124,944	121,116	115,694	110,462	118,059	115,564	110,401
U. Illinois, Urbana-Champaign	6	96,170	106,430	95,988	99,600	63,414	71,231	64,385	63,076
U. Texas, Austin	7	73,386	66,125	139,290	87,595	63,389	56,350	128,322	79,109
Pennsylvania State U., University Park and Hershey Medical Center	8	55,939	69,638	89,490	73,737	47,938	56,256	76,419	56,263
U. Maryland <sup>b</sup>	9	na	47,841	50,541	50,483	na	32,963	34,576	33,768
U. Alabama, Huntsville	10	26,973	29,177	36,636	48,967	25,492	28,023	35,309	45,627
U. California, San Diego	11	35,158	28,302	30,370	46,962	14,788	13,478	16,179	18,932
Indiana U., Bloomington	12	25,804	36,195	41,892	38,843	14,419	21,764	24,346	23,657
U. Utah	13	42,025 i	40,967 i	37,159 i	33,446 i	29,213	25,364	23,621	21,958
U. North Carolina, Chapel Hill	14	18,483	23,146	26,765	32,344	13,884	19,037	20,870	27,834
U. Central Florida	15	26,571	29,865	29,421	32,242	18,041	18,069	18,093	21,437
Cornell U.	16	29,162	29,330	31,173	28,125	19,565	19,491	18,829	19,456
Columbia U. in the City of New York	17	22,654	24,725	25,101	27,763	20,584	22,935	22,817	24,889
U. Pennsylvania	18	23,703	26,968	26,318	27,396	15,095	16,242	15,361	16,523
U. Massachusetts, Amherst	19	25,106	27,702	31,199	27,336	15,650	16,035	16,804	15,410
U. Washington, Seattle	20	23,644	24,969	27,986	26,869	12,642	16,374	18,140	17,605
U. Chicago	21	25,407	26,606	24,422	26,205	23,594	25,298	23,454	25,470
Virginia Polytechnic Institute and State U.	22	27,614	23,536	30,405	25,466	10,746	9,830	11,637	8,484
U. Virginia, Charlottesville	23	15,473	20,017	26,286	24,669	9,039	14,945	20,924	20,384
George Mason U.	24	18,745	31,219	23,969	24,420	17,583	28,895	21,728	19,379
U. Wisconsin-Madison	25	22,024	20,372	28,241	23,678	16,499	13,735	15,975	14,687
Princeton U.	26	15,110	19,725	24,160	23,518	8,853	10,723	14,612	14,768
U. California, Irvine	27	15,705	19,463	21,573	23,444	8,310	10,548	10,957	11,215
Stanford U.	28	25,298	24,575	26,512	23,232	13,481	12,782	15,368	14,181
U. Minnesota, Twin Cities	29	21,810	22,227	22,996	22,629	8,279	9,064	9,283	9,509
Arizona State U.	30	18,967	21,871	22,231	22,498	11,012	11,734	15,176	14,325
Purdue U., West Lafayette	31	23,394	23,177	27,886	22,324	14,513	14,972	20,261	15,679
Northeastern U.	32	19,212	19,362	21,118	21,505	15,921	15,979	17,176	16,182
Harvard U.	33	15,431	15,229	15,250	20,858	11,290	12,576	11,955	11,767



TABLE 39

**Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Georgetown U.	34	3,812	3,836	18,620	19,590	1,806	2,137	3,947	3,703
U. Texas, San Antonio	35	10,239	12,132	12,064	19,203	7,312	7,721	5,470	11,594
Texas A&M U., College Station and Health Science Center	36	21,960	21,800	18,504	19,178	9,668	10,724	9,988	12,013
Dartmouth C. and Dartmouth Hitchcock Medical Center	37	14,596	15,753	14,889	18,556	4,918	5,230	5,114	5,783
Vanderbilt U. and Vanderbilt U. Medical Center	38	199	0	0	18,226	0	0	0	12,495
U. North Carolina, Charlotte	39	9,812	10,468	10,163	18,214	7,241	8,286	8,343	8,282
SUNY, U. Buffalo	40	16,731	15,899	18,747	17,679	9,566	9,268	10,894	8,770
North Carolina State U.	41	11,537	14,614	16,119	17,016	8,169	10,351	11,737	12,833
U. Louisiana, Lafayette	42	15,078	11,650	11,111	16,823	4,899	2,169	1,050	3,227
Florida International U.	43	14,645	14,911	16,175	16,708	11,033	10,990	9,863	8,929
Ohio State U.	44	20,331	23,393	22,869	16,691	9,770	9,151	8,892	6,904
U. Arizona	45	13,089	12,370	15,084	16,503	6,108	7,066	7,670	8,999
U. Colorado Boulder	46	12,028	14,909	15,627	16,468	11,294	14,061	14,941	15,321
U. California, Los Angeles	47	14,698	15,867	17,480	16,186	7,383	8,724	10,302	10,475
Michigan State U.	48	14,890	19,013	15,783	15,996	7,598	8,474	7,631	6,720
Louisiana State U., Baton Rouge	49	6,455	6,538	8,284	15,399	4,110	4,051	5,502	10,944
New York U.	50	17,178	14,607	14,584	15,246	11,255	8,151	9,125	9,830
U. Florida	51	12,515	13,569	13,006	15,238	7,201	8,507	9,016	8,849
Brown U.	52	12,539	14,727	15,695	14,984	8,359	10,694	10,937	10,480
Boston U.	53	5,055	11,919	14,251	14,542	2,491	5,295	5,902	6,725
U. Notre Dame	54	14,217	16,400	14,904	13,961	8,902	10,201	8,265	8,037
U. Michigan, Ann Arbor	55	12,010	12,983	15,180	13,922	5,055	4,804	6,046	5,841
California Institute of Technology	56	15,086	14,405	15,072	13,508	12,844	10,511	11,277	9,772
Rensselaer Polytechnic Institute	57	9,830	11,282	14,686	13,145	5,049	5,853	4,377	5,398
U. Alabama, Tuscaloosa	58	11,550	12,482	12,836	12,797	4,772	4,439	4,044	4,438
SUNY, Stony Brook U.	59	9,365	9,726	10,909	12,621	6,939	7,788	8,530	10,753
U. Illinois, Chicago	60	11,653	10,522	12,999	12,103	6,873	5,679	7,580	6,425
U. Maryland, Baltimore County	61	6,352	8,065	11,590	12,102	4,913	4,989	6,765	7,385
U. Tennessee, Knoxville <sup>c</sup>	62	14,367	14,744	13,906	11,725	9,876	10,706	11,049	8,756
Rice U.	63	11,281	11,939	10,760	11,623	9,709	10,013	7,698	8,006
U. South Florida <sup>d</sup>	64	8,803	7,707	9,417	11,614	3,049	3,184	2,582	2,875
U. Hawaii, Manoa	65	10,971	10,173	11,963	11,590	10,458	9,899	11,055	11,062
New Jersey Institute of Technology	66	9,887	10,619	10,325	11,575	5,243	3,885	3,428	3,448
U. California, Santa Barbara	67	11,397	10,965	9,231	11,503	6,670	6,351	5,973	6,064

TABLE 39

**Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Worcester Polytechnic Institute	68	3,578	7,301	10,150	10,707	2,647	5,023	7,300	7,405
U. Pittsburgh, Pittsburgh	69	8,386	9,734	9,312	10,455	6,002	6,889	6,612	6,917
Florida State U.	70	11,684	11,557	10,349	10,320	4,681	3,787	3,969	3,710
U. California, Berkeley	71	10,454	12,125	12,701	9,583	389	690	255	201
U. Nebraska, Lincoln	72	9,227	8,919	8,541	9,353	4,870	4,828	4,420	4,327
Northwestern U.	73	2,512	3,035	8,441	8,957	1,214	1,459	5,024	5,873
U. Texas, Dallas	74	7,608	8,136	9,992	8,945	4,597	4,763	6,289	6,367
Rockefeller U.	75	8,029	8,037	9,058	8,886	0	0	0	0
Rochester Institute of Technology	76	5,079	6,328	8,910	8,809	2,793	3,189	5,556	5,662
SUNY, Binghamton U.	77	7,442	7,176	7,873	8,490	2,135	2,607	2,734	1,910
Washington State U.	78	9,407	8,705	8,251	8,393	4,170	3,520	4,027	4,772
U. California, Riverside	79	7,398	9,450	8,974	8,295	5,364	7,221	5,999	5,841
U. Memphis	80	13,831	9,482	8,486	7,957	11,139	6,188	4,277	4,492
U. Dayton	81	1,445	4,245	7,200	7,528	1,116	3,453	5,964	6,724
U. Massachusetts, Lowell	82	5,746	7,481	7,153	7,420	2,611	4,108	4,051	4,440
Yale U.	83	6,309	5,996	5,969	7,379	4,257	4,245	3,666	5,107
George Washington U.	84	6,509	8,578	7,308	7,326	4,309	4,266	3,135	2,907
U. North Texas, Denton	85	3,065	5,879	4,769	7,269	1,600	1,966	1,262	2,189
Oregon State U.	86	9,666	8,869	8,213	7,241	7,939	7,304	6,218	6,182
Clemson U.	87	5,904	5,193	4,852	7,040	3,900	2,663	2,355	3,143
U. Missouri, Columbia	88	1,660	4,567	4,187	6,866	1,425	3,924	3,674	5,692
U. Texas, Arlington	89	5,719	7,191	7,572	6,865	2,412	2,575	2,817	2,674
U. Nevada, Reno	90	7,719	7,812	7,550	6,843	3,965	2,858	3,390	3,896
New Mexico Institute of Mining and Technology	91	565	1,169	2,780	6,732	565	1,062	2,748	6,668
U. Oregon	92	4,231	5,059	5,652	6,362	3,504	3,738	4,228	4,811
Temple U.	93	4,252	4,560	5,901	6,327	2,879	2,818	2,496	2,571
Rutgers, State U. New Jersey, New Brunswick	94	8,478	5,881	6,402	6,316	7,916	4,381	4,851	3,942
Virginia Commonwealth U.	95	1,331	1,286	2,138	6,270	1,265	1,286	1,584	1,335
U. Texas, El Paso	96	5,522	5,851	7,597	6,234	4,930	4,796	5,639	4,670
Naval Postgraduate School	97	7,718	11,598	7,345	6,058	4,004	6,843	4,608	3,953
U. California, Davis	98	7,888	7,562	7,256	5,934	5,724	5,544	5,005	4,367
U. Arkansas, Fayetteville	99	868	5,088	4,591	5,882	422	2,008	1,753	2,541
Iowa State U.	100	10,194	8,296	7,666	5,844	5,675	4,152	4,815	3,093
Drexel U.	101	6,599	4,298	4,105	5,655	3,964	2,827	2,885	4,413

TABLE 39

**Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Florida Institute of Technology	102	2,359	4,242	4,287	5,643	1,956	3,930	3,223	3,698
Syracuse U.	103	7,723	5,571	5,081	5,582	4,724	2,621	1,266	1,557
Mississippi State U.	104	6,328	6,944	5,189	5,546	2,716	3,822	1,749	2,269
U. Connecticut	105	4,807	5,103	5,575	5,294	3,492	2,815	3,194	3,271
Duke U.	106	5,785	5,845	6,019	5,273	5,454	5,497	5,535	4,468
SUNY, U. Albany	107	5,277	6,541	6,591	5,230	1,182	2,709	2,739	1,596
U. California, Santa Cruz	108	4,235	4,401	5,009	5,128	1,838	1,910	2,199	2,407
Auburn U., Auburn	109	2,653	4,368	5,006	5,127	602	1,505	1,740	2,151
Stevens Institute of Technology	110	3,169	3,666	3,606	4,984	3,100	3,325	3,454	4,104
Toyota Technological Institute, Chicago	111	3,251	3,681	5,887	4,967	1,759	1,934	3,038	3,090
Georgia State U.	112	3,192	3,562	3,435	4,896	1,497	1,885	1,531	1,643
U. Oklahoma, Norman and Health Science Center	113	2,845	1,752	3,019	4,661	1,688	1,354	1,285	2,414
Indiana U.-Purdue U., Indianapolis	114	3,509	3,920	5,006	4,643	1,826	2,106	3,307	2,798
Michigan Technological U.	115	2,415	2,158	2,994	4,582	800	588	1,054	2,074
Washington U., Saint Louis	116	4,465	5,504	5,467	4,575	3,820	4,583	4,675	4,167
U. Houston	117	7,068	4,819	5,599	4,352	4,358	3,033	2,546	2,337
Texas Tech U.	118	4,135	4,427	5,111	4,274	1,004	1,019	1,160	916
U. Delaware	119	5,267	5,274	6,648	4,182	4,346	4,540	5,643	3,404
U. Iowa	120	3,017	3,599	3,547	4,180	2,443	2,958	2,673	2,842
U. Georgia	121	4,902	3,731	3,760	4,121	1,305	1,453	1,105	1,258
New Mexico State U.	122	2,124	2,705	4,539	4,043	1,944	2,296	3,869	3,464
Northern Arizona U.	123	908	3,383	2,671	4,037	106	282	698	811
U. Kentucky	124	3,138	3,165	4,054	4,011	1,647	1,639	1,554	2,223
Kansas State U.	125	3,436	2,923	3,511	3,898	1,840	1,637	1,844	2,377
Colorado School of Mines	126	1,429	2,782	3,748	3,894	1,117	2,593	3,461	3,746
Kennesaw State U.	127	1,429	1,706	3,727	3,745	123	174	105	125
U. South Alabama	128	1,533	3,355	3,846	3,722	1,283	3,256	3,705	3,560
U. New Mexico	129	4,366	3,649	3,964	3,657	2,992	2,616	2,876	2,760
U. Kansas	130	4,073	4,004	4,416	3,652	1,915	2,285	2,887	2,269
Oklahoma State U., Stillwater	131	3,368	3,673	5,361	3,636	504	547	371	460
Colorado State U., Fort Collins	132	4,349	4,278	4,278	3,621	3,800	3,761	3,645	3,125
U. Cincinnati	133	2,205	1,516	2,031	3,614	91	70	123	205
U. Rochester	134	3,557	3,657	4,021	3,608	2,882	3,167	3,383	3,190
Wright State U.	135	3,259	2,986	2,034	3,531	1,755	1,684	871	2,740

TABLE 39

**Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
U. Arkansas, Little Rock	136	2,534	3,486	3,246	3,312	1,922	2,517	2,691	3,089
U. South Carolina, Columbia	137	2,376	2,436	4,809	3,311	1,623	1,526	1,999	2,248
Brandeis U.	138	1,425	1,560	2,999	3,187	980	1,130	1,561	1,006
Dakota State U.	139	3,586	3,694	4,337	3,080	3,273	3,006	3,909	2,443
Utah State U.	140	1,861	2,040	2,538	3,039	1,069	1,262	1,543	1,812
U. Vermont	141	1,305	2,829	3,036	2,978	1,056	1,636	911	951
North Dakota State U.	142	4,900	2,556	3,433	2,929	1,405	943	463	346
Teachers C., Columbia U.	143	1,627	1,948	2,459	2,913	1,235	1,320	1,284	1,570
Emory U.	144	1,551	2,427	2,345	2,841	0	113	323	964
U. Tulsa	145	3,074	2,426	3,139	2,783	1,705	1,660	2,531	2,365
U. Massachusetts, Boston	146	1,926	1,949	1,242	2,709	1,167	781	525	716
Old Dominion U.	147	1,778	2,530	2,196	2,693	1,300	1,061	874	1,196
Illinois Institute of Technology	148	3,108	3,005	2,988	2,647	2,941	2,760	2,708	2,355
Montana State U., Bozeman	149	1,102	1,427	1,459	2,625	988	1,104	1,149	1,141
U. Nebraska, Omaha	150	2,287	3,287	3,185	2,588	1,298	2,097	1,827	1,591
U. Maine	151	1,339	1,377	1,967	2,585	625	313	629	824
Tennessee Technological U.	152	2,096	2,416	2,221	2,581	1,136	1,417	1,364	1,543
William & Mary	153	2,133	2,914	2,917	2,575	1,614	1,852	1,881	1,670
Missouri U. of Science and Technology	154	2,968	2,496	2,648	2,545	1,785	1,198	1,337	1,228
Lehigh U.	155	1,615	2,164	2,333	2,514	1,019	1,382	1,521	1,734
U. West Florida	156	538	1,845	1,995	2,510	396	471	460	1,625
Florida Atlantic U.	157	1,427	2,170	2,586	2,479	308	1,119	1,309	1,562
Case Western Reserve U.	158	200	50	34	2,407	199	50	34	1,888
Rutgers, State U. New Jersey, Camden	159	1,442	1,169	1,848	2,353	1,243	1,039	1,789	2,111
U.S. Military Academy	160	1,600	1,687	469	2,305	1,600	1,687	469	1,878
U. Montana, Missoula	161	759	1,291	1,746	2,207	684	945	1,371	1,619
U. Idaho	162	1,493	1,238	1,595	2,184	1,139	872	985	1,476
West Virginia U.	163	1,339	1,150	1,894	2,179	823	1,103	1,646	1,742
Wayne State U.	164	1,784	1,881	2,133	2,158	1,168	1,145	1,066	1,353
Gallaudet U.	165	1,384	645	486	2,141	311	463	319	1,364
Embry-Riddle Aeronautical U.	166	0	0	526	2,136	0	0	406	1,697
Rutgers, State U. New Jersey, Newark	167	2,535	1,970	2,269	2,013	1,983	1,849	2,269	1,984
U. Colorado Colorado Springs	168	1,305	928	1,035	1,965	1,291	865	1,023	1,921
Norfolk State U.	169	4,474	5,010	4,921	1,957	4,474	5,010	4,921	1,957

TABLE 39

**Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Louisiana Tech U.	170	1,684	1,856	2,475	1,952	53	385	726	396
Air Force Institute of Technology	171	1,697	2,733	2,441	1,921	992	1,817	1,656	1,551
Tulane U.	172	2,511	2,312	2,257	1,873	1,579	1,438	1,803	1,472
U. North Dakota	173	2,227	2,059	3,199	1,856	571	45	336	693
Howard U.	174	1,034	1,328	1,523	1,747	432	655	655	740
U. Massachusetts, Dartmouth	175	973	1,393	1,572	1,718	115	181	448	60
U. Missouri, Kansas City	176	905	1,456	1,625	1,698	87	267	399	509
Boise State U.	177	1,565	1,454	1,761	1,686	833	764	1,216	1,197
Portland State U.	178	1,167	1,370	1,164	1,644	865	1,073	996	1,390
U. Texas Rio Grande Valley	179	166	824	1,520	1,581	76	205	252	188
U. Wyoming	180	317	342	581	1,580	302	336	541	971
San Francisco State U.	181	706	840	1,482	1,579	89	143	558	564
DePaul U.	182	2,148	1,661	1,528	1,552	1,753	1,515	1,448	1,396
Kent State U.	183	1,477	1,766	1,766	1,509	400	396	605	456
Marquette U.	184	0	178	834	1,439	0	0	324	675
San Diego State U.	184	1,634	1,563	1,519	1,439	1,224	874	636	657
U. Southern Maine	186	1,328	1,283	1,190	1,422	0	0	0	0
CUNY, Hunter C.	187	1,780	2,001	1,726	1,395	1,270	1,594	1,474	1,165
U. New Orleans	188	2,019	2,045	1,591	1,370	1,162	866	637	451
U. New Haven	189	176	129	602	1,359	137	123	562	1,117
U. Alabama, Birmingham	190	919	827	1,502	1,356	858	751	1,356	1,250
Saint Louis U.	191	303	655	1,164	1,345	227	412	578	734
U. Hawaii, system office	192	0	0	1,715	1,327	0	0	1,694	1,313
California State U., Monterey Bay	193	538	512	1,023	1,298	0	141	734	721
North Carolina Agricultural and Technical State U.	194	1,686	1,861	1,742	1,227	1,498	1,658	1,567	1,148
Texas State U.	195	1,258	2,096	2,197	1,200	928	876	768	818
U. North Carolina, general administration	196	718	723	1,168	1,192	0	0	10	13
U. Virginia's C. Wise	197	ne	ne	ne	1,174	ne	ne	ne	1,174
Oakland U.	198	476	847	1,073	1,150	182	500	482	613
Baylor U.	199	500	581	1,011	1,148	22	0	97	101
U. California, Merced	200	41	157	194	1,134	41	157	116	862
U. Alaska, Fairbanks	201	1,202	1,058	1,148	1,116	315	590	820	947
Ball State U.	202	1,580	1,236	1,263	1,079	1,019	365	258	22
U. New Hampshire	203	359	883	854	1,057	148	526	576	567

TABLE 39

**Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
St. Edward's U.	204	195	1,010	1,150	1,050	100	550	700	600
Georgia Southern U.	205	86	134	65	1,045	19	94	16	99
Tufts U.	205	3,392	3,777	4,273	1,045	3,315	3,777	4,128	942
Citadel Military C. South Carolina	207	ne	ne	380	1,033	ne	ne	378	1,023
U. Nevada, Las Vegas	208	1,782	1,662	1,077	1,015	875	643	314	443
Middle Tennessee State U.	209	87	323	245	1,000	72	236	204	283
Hampton U.	210	714	448	699	994	714	448	699	994
Northern Illinois U.	211	1,252	935	661	944	451	383	332	669
Brigham Young U., Provo	212	1,716	1,578	1,350	929	1,697	1,440	1,199	841
Creighton U.	213	645 i	846 i	730 i	928 i	282 i	432 i	396 i	493 i
U. Tennessee, Chattanooga	214	506	634	975	899	317	462	873	879
Purdue U., Northwest	215	766	919	524	863	760	883	491	836
James Madison U.	216	160	661	325	845	122	47	18	26
U. Miami	217	938	1,140	283	835	721	552	91	586
U. North Carolina, Greensboro	218	0	16	510	806	0	0	323	692
CUNY, City C.	219	895	990	1,490	778	703	656	803	552
Clarkson U.	220	307	506	517	776	134	427	421	700
U.S. Naval Academy	221	1,775	1,190	1,519	774	1,775	1,176	1,413	684
Pace U.	222	64	775	1,043	758	22	609	903	598
Chapman U.	223	37	244	665	701	15	72	0	0
Idaho State U.	224	708	792	820	686	650	707	651	503
California Polytechnic State U., San Luis Obispo	225	586	850	626	679	369	587	362	436
Boston C.	226	521	559	599	663	419	335	411	402
Jackson State U.	227	1,314	567	502	662	1,180	423	418	468
Morgan State U.	228	489	222	520	660	402	199	519	624
Marymount U.	229	ne	ne	ne	655	ne	ne	ne	174
Xavier U. Louisiana	230	438	442	100	652	427	416	87	652
American U.	231	0	2,122	672	649	0	159	264	146
Harvey Mudd C.	232	576	730	791	645	454	516	640	512
California State U., Dominguez Hills	233	187	243	700	620	158	239	633	547
California State U., San Marcos	233	964	654	987	620	964	654	987	620
U. Puerto Rico, Rio Piedras	235	602	654	207	604	510	462	75	258
East Carolina U.	236	266	554	828	603	116	277	213	309
Winston-Salem State U.	237	0	0	443	590	0	0	443	251

TABLE 39

**Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Rowan U.	238	528	391	482	588	5	131	256	453
Fayetteville State U.	239	279	220	131	584	279	220	131	334
Southern Illinois U., Carbondale	240	515	545	396	566	60	13	33	0
Miami U.	241	670	775	721	564	441	411	298	68
Morehouse C.	242	403	914	1,141	540	403	914	1,141	540
Towson U.	243	517	500	603	530	419	383	488	416
Elizabeth City State U.	244	52	ne	112	518	34	ne	101	466
Wellesley C.	245	469	632	431	505	464	417	430	500
U. Colorado Denver <sup>e</sup>	246	na	na	na	475	na	na	na	411
Southern U. and A&M C., Baton Rouge	247	80	172	202	473	76	170	189	473
U. Central Arkansas	248	352	442	426	470	237	320	381	358
Tuskegee U.	249	65	401	409	463	65	401	409	463
Tennessee State U.	250	480	328	430	454	477	317	421	445
U. Hawaii, Maui C.	251	ne	ne	ne	450	ne	ne	ne	446
U. Nebraska, central administration	252	796	3,634	1,385	448	796	3,634	1,385	448
Bowie State U.	253	732	508	682	446	732	508	682	446
U. Rhode Island	254	783	687	523	439	724	687	465	416
U. North Florida	255	125	123	178	418	0	0	51	304
Fisk U.	256	225	86	93	415	225	0	0	415
Villanova U.	257	383	498	527	413	156	131	179	148
Tarleton State U.	258	0	10	412	395	0	0	0	0
Western Washington U.	259	209	93	318	383	149	93	274	343
California State U., Northridge	260	112	189	201	380	0	91	201	358
California State Polytechnic U., Pomona	261	97	225	653	360	95	216	607	335
Appalachian State U.	262	126	198	336	356	116	170	233	323
Bryn Mawr C.	262	497	332	691	356	209	222	226	134
Smith C.	264	606	427	391	352	557	348	328	320
California State U., Sacramento	265	109	123	178	340	36	41	105	219
U. North Georgia	266	0	12	37	335	0	0	37	335
Delaware State U.	267	83	1	358	334	8	0	156	179
U. of St. Thomas (MN)	268	0	35	17	328	0	10	17	323
C. Charleston	269	502	280	162	322	384	235	90	242
CUNY, Brooklyn C.	270	325	388	403	314	238	342	356	290
Montclair State U.	270	204	427	535	314	204	235	117	107

TABLE 39

**Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Texas A&M U.-Corpus Christi	272	715	1,008	222	313	553	850	204	258
Alabama A&M U.	273	597	i 441	i 301	i 307	i 485	i 343	i 234	i 235
New York Institute of Technology	274	231	181	188	303	159	181	132	183
Salisbury U.	274	1,023	351	346	303	171	174	57	101
West Texas A&M U.	276	0	58	210	301	0	24	116	161
San Jose State U.	277	33	8	10	297	1	0	0	0
Black Hills State U.	278	0	0	480	295	0	0	452	295
CUNY, Queens C.	279	393	155	182	294	251	73	135	253
Fordham U.	280	534	635	390	287	283	160	164	101
U. North Carolina, Asheville	281	8	128	310	284	8	128	310	284
Occidental C.	282	13	254	236	280	13	254	236	280
U. Mississippi	283	604	584	207	273	53	42	101	119
Pomona C.	284	135	195	95	272	74	112	95	118
California State U., Long Beach	285	71	74	102	271	18	69	42	90
Ohio U.	285	729	i 712	703	271	76	165	103	243
Wake Forest U.	287	159	81	226	266	159	81	59	145
California State U., East Bay	288	ne	ne	329	264	ne	ne	61	0
Barnard C.	289	0	1	149	260	0	0	60	107
Eastern Connecticut State U.	290	7	6	86	248	0	0	0	0
U. North Carolina, Wilmington	291	147	110	210	244	116	69	130	209
U. Minnesota, Duluth	292	123	283	289	242	8	111	163	136
U. of the District of Columbia	292	0	0	79	242	0	0	79	242
Middlebury C.	294	146	269	117	241	146	269	117	241
Arkansas State U., Jonesboro	295	288	332	290	239	191	259	158	95
St. Cloud State U.	296	196	116	75	233	177	86	0	182
U. Southern Mississippi	297	3,163	443	144	232	3,151	440	114	182
Kean U.	298	ne	ne	509	229	ne	ne	417	151
California State U., San Bernardino	299	1,155	1,831	472	228	1,133	1,717	401	182
Vassar C.	300	704	i 153	400	227	704	i 153	273	142
Northwestern State U. Louisiana	301	407	332	272	224	0	0	0	0
U. Washington, Tacoma	301	234	555	696	224	221	555	696	216
California State U., Los Angeles	303	20	50	i 36	218	12	0	0	218
Calvin U.	303	381	255	239	i 218	i 246	10	10	i 11
Loyola U., Chicago	305	66	100	160	216	38	70	139	161



TABLE 39

**Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Colgate U.	306	250	362	188	214	173	242	165	180
Southern Methodist U.	307	597	1,412	683	205	116	318	290	127
Central Washington U.	308	22	5	58	202	0	5	0	177
Grinnell C.	309	279	416	357	201	111	124	76	77
California State U., Fullerton	310	67	191	83	200	45	0	33	143
Doane U.	311	49	181	186	198	43	170	175	189
U. Houston-Downtown	312	551	71	95	194	550	49	86	175
Florida Polytechnic U.	313	ne	112	241	193	ne	49	64	112
U. Wisconsin-Milwaukee	313	230	337	116	193	172	260	93	157
Bowling Green State U.	315	240	295	274	192	103	110	67	22
Saint Joseph's U.	315	26	42	136	192	23	42	118	155
Colorado State U., Pueblo	317	ne	43	0	190	ne	0	0	190
SUNY, C. of Environmental Science and Forestry	317	0	4	119	190	0	2	23	22
Prairie View A&M U.	319	304	293	292	188	294	271	292	188
U. Washington, Bothell	319	381	738	41	188	285	623	41	119
U. Missouri, Saint Louis	321	834	25	833	187	5	11	3	100
California State U., Stanislaus	322	239	290	331	186	239	290	331	186
C. New Jersey	323	7	ne	194	178	7	ne	194	175
William Paterson U.	323	116	133	125	178	0	0	0	0
U. South Dakota	325	1,346	363	799	174	503	82	665	86
Clafin U.	326	458	447	500	173	458	447	500	173
CUNY, New York City C. of Technology	327	308	210	177	172	299	204	177	156
Western Michigan U. and Homer Stryker M.D. School of Medicine	328	258	212	145	169	136	130	131	150
Connecticut C.	329	11	56	248	168	5	24	83	65
Illinois State U.	329	49	78	65	168	16	17	23	76
U. Minnesota, Morris	329	ne	3	72	168	ne	0	0	0
U. Alaska, Anchorage	332	471	685	165	166	327	578	150	63
Indiana U. Pennsylvania	333	30	10	331	165	15	8	0	34
Clark Atlanta U.	334	182	405	183	160	170	383	166	103
CUNY, system office	335	508	338	215	158	458	284	84	0
North Carolina Central U.	336	0	0	28	157	0	0	12	0
Southern Connecticut State U.	337	8	19	11	154	0	0	0	0
Mount Holyoke C.	338	306	273	141	152	240	226	140	150
Amherst C.	339	26	38	25	150	0	0	0	35

TABLE 39

**Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
U.S. Air Force Academy	339	1,044	640	490	150	755	640	490	150
Augusta U.	341	28	24	61	141	28	23	28	84
California State U., Fresno	341	219	46	117	141	175	46	75	141
New Mexico Highlands U.	341	14	ne	134	141 i	0	ne	134	141 i
Mercer U.	344	95	115	136	140	0	0	15	16
U. Central Oklahoma	345	51	133	132 i	139 i	45	133	132 i	139 i
Texas Southern U.	346	276	250	160	136	256	225	149	106
Oregon Institute of Technology	347	326 i	41 i	37 i	134 i	0	0 i	0	20 i
Bucknell U.	348	110	200	122 i	114	4	24	84 i	82
St. Olaf C.	348	33	22	167	114	2	10	132	85
Williams C.	350	240	115	110 i	113 i	216	60	58 i	62 i
Pennsylvania State U., Behrend	351	107	138	119	112	31	47	37	77
C. Wooster	352	8	0	112	109 i	0	0	0	0 i
South Carolina State U.	353	4 i	100	104 i	108 i	0 i	100	104 i	108 i
Oklahoma State U., Center for Health Sciences	354	0	89	95	99	0	0	0	0
Hofstra U.	355	0	58	6	97	0	0	3	45
Colby C.	356	38	37	14	94	31	36	14	78
U. Hawaii, Hilo	356	0	0	1	94	0	0	1	91
Azusa Pacific U.	358	35	12	148	92	0	0	0	9
Coastal Carolina U.	359	18	82	56	91	18	82	56	91
U. of the Virgin Islands	360	303	309	148	90	303	309	148	90
Central Michigan U.	361	6	2	105	87	0	0	0	0
Texas Christian U.	362	0	26	126	86	0	26	101	86
U. Wisconsin-River Falls	362	0	ne	55	86	0	ne	55	86
Humboldt State U.	364	20	87	64	85	0	0	8	27
Arcadia U.	365	ne	ne	ne	84	ne	ne	ne	84
U. of Mary Washington	366	0	1	45	82	0	0	15	19
Bowdoin C.	367	6	16	84	81	0	13	72	74
CUNY, Lehman C.	367	317	0	476	81	253	0	0	0
Marshall U.	369	53	78	287	79	35	34	254	54
Lafayette C.	370	147	124	101	76	142	117	85	46
Mercyhurst U.	370	ne	65 i	67 i	76 i	ne	35 i	36 i	41 i
St. John's U., New York	372	97	128	9	75	0	86	0	59
CUNY, Advanced Science Research Center	373	0	0	0	74	0	0	0	0

TABLE 39

**Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Ithaca C.	374	ne	ne	39	73	ne	ne	39	73
Hawaii Pacific U.	375	0	0	86	72	0	0	72	72
Lamar U.	375	215	582	74	72	146	539	14	33
Reed C.	375	68	128	68	72	0	117	61	65
U. Louisville	378	262	309	97	71	147	112	0	14
Franklin and Marshall C.	379	140	90	7	70	109	46	0	0
Macalester C.	379	0	119	140	70	0	0	0	0
Dordt U.	381	ne	ne	ne	69	ne	ne	ne	69
Carleton C.	382	101	291	111	68	94	73	33	40
Trinity U.	383	60	29	50	64	32	0	15	26
Hope C.	384	0	0	28	63	0	0	0	0
Oberlin C.	385	47	179	144	62	10	130	80	30
Texas A&M U.-Commerce	386	135	64	94	61	7	0	24	53
U. Michigan, Dearborn	386	0	0	11	61	0	0	0	0
Union C., Schenectady	388	50	312	7	59	22	293	3	57
Loyola Marymount U.	389	0	3	24	58	0	0	0	0
SUNY, Oswego	390	17	27	84	56	0	14	52	38
U. Wisconsin-Green Bay	390	39	58	57	56	21	32	35	33
Claremont Graduate U.	392	412	306	207	55	326	206	98	0
CUNY, C. Staten Island	393	52	63	66	54	52	63	65	54
Lawrence Technological U.	393	0	31	63	54	0	31	63	54
Furman U.	395	22	22	45	53	2	9	0	0
Catholic U. of America	396	0	0	0	50	0	0	0	0
Southern Illinois U., Edwardsville	397	195	80	151	49	61	80	39	11
Biola U.	398	36	41	42	48	25	29	30	34
South Dakota School of Mines and Technology	398	0	4	49	48	0	4	49	33
Keene State C.	400	ne	0	0	47	ne	0	0	47
Milwaukee School of Engineering	400	0	0	0	47	0	0	0	47
Northeastern Illinois U.	402	211	217	39	46	211	217	39	46
U. Baltimore	402	25	10	22	46	0	10	10	46
CUNY, Baruch C.	404	30	0	46	45	30	0	46	45
U. Nebraska, Kearney	405	0	0	6	43	0	0	0	0
Fort Valley State U.	406	235	101	0	42	230	101	0	0
Missouri State U.	406	0	2	53	42	0	2	48	15

TABLE 39

**Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
U. San Diego	406	0	0	0	42	0	0	0	0
U. Wisconsin-La Crosse	406	128	84	68	42	31	5	36	31
Elon U.	410	84	90	36	41	42	42	0	0
U. Maryland Center for Environmental Science	411	0	0	2	40	0	0	0	0
Haverford C.	412	61 i	86 i	101 i	39 i	41	52	39	16
Northern Michigan U.	413	0	0	0	37	0	0	0	37
U. Wisconsin-Platteville	413	ne	18 i	18 i	37 i	ne	12 i	12 i	22 i
Clark U.	415	28	34	60	36	28	33	47	17
Winthrop U.	415	10	0	0	36	0	0	0	36
Northern Kentucky U.	417	67	62	13	34	3	0	0	3
U. Houston-Clear Lake	417	148	37	111	34	86	21	96	23
Central Connecticut State U.	419	ne	16	21	33	ne	0	0	0
Nova Southeastern U.	420	149	246	146	32	140	216	125	0
South Dakota State U.	420	0	0	13	32	0	0	0	0
U. Akron	420	32	7	1	32	29	0	0	32
Grand Valley State U.	423	13	14	9	31	0	0	0	6
Eastern Michigan U.	424	182	201	376	30	59	7	0	0
Youngstown State U.	425	134	17	6	28	129	9	0	28
Sam Houston State U.	426	141	49	18	26	84	0	0	0
Rhode Island C.	427	0	15	63	24	0	15	60	24
California State U., Channel Islands	428	30	2	0	22	0	0	0	0
CUNY, Graduate Center	428	3	0	0	22	0	0	0	22
U. Denver	428	48	111	99	22	48	111	99	22
U. Texas, Tyler	431	19	32	50	21	9	28	26	13
West Chester U. Pennsylvania	431	35	25	7	21	0	0	0	0
Saint John's U.	433	26	26 i	25 i	20 i	0	0 i	0 i	0 i
Bates C.	434	2	47	113	19	2	47	113	19
C. of Saint Benedict	434	54	53 i	51 i	19 i	25	24 i	23 i	2 i
New School	434	41	0	6	19	41	0	0	0
U. Northern Iowa	437	50	0	0	18	29	0	0	0
CUNY, John Jay C. of Criminal Justice	438	34	74	195	16	28	74	193	10
Florida A&M U.	438	1,353	1,268	102	16	1,339	1,257	90	16
Swarthmore C.	438	16	12	15	16	3	0	6	0
U. Michigan, Flint	438	33	14	11	16	0	0	0	0

TABLE 39

**Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
U. San Francisco	438	30	27	60	16	2	0	0	0
Kentucky State U.	443	132	110	32	15	132	110	32	15
Skidmore C.	444	6	1	6	14	0	0	0	0
Stephen F. Austin State U.	444	0	0	0	14	0	0	0	0
Florida Gulf Coast U.	446	12	145	41	13	12	27	41	13
Spelman C.	446	63	86	34	13	63	86	34	13
Fairfield U.	448	0	0	6	12	0	0	0	1
Johnson C. Smith U.	448	385	395	11	12	335	395	11	12
Sacred Heart U.	448	ne	ne	ne	12	ne	ne	ne	7
Sonoma State U.	448	ne	ne	8	12	ne	ne	0	0
Texas A&M U.-Kingsville	448	0	0	0	12	0	0	0	12
Texas Woman's U.	453	15	15	14	11	15	15	14	11
Trinity C., Hartford	454	247	3	4	9	226	0	0	0
Saginaw Valley State U.	455	13	8	7	7	0	1	1	1
Lincoln U., Jefferson City	456	0	0	0	6	0	0	0	6
Wheaton C., Wheaton	456	0	5	9	6	0	0	0	0
Kettering U.	458	5	15	22	5	0	0	0	0
Long Island U.	458	0	0	0	5	0	0	0	5
East Tennessee State U.	460	0	0	19	4	0	0	0	0
Hamilton C.	460	9	8	89	4	0	0	0	0
Hobart and William Smith Colleges	460	ne	0	0	4	ne	0	0	0
Indiana U., South Bend	463	52	ne	ne	3	49	ne	ne	0
Pennsylvania State U., Harrisburg	464	228	382	130	2	41	5	2	1
Southeastern Louisiana U.	464	0	31	29	2	0	16	5	0
West Virginia State U.	464	106	0	110	2	106	0	99	2
Albion C.	467	31	17	1	1	0	0	0	0
Austin Peay State U.	467	0	11	0	1	0	0	0	0
Drake U.	467	4	0	ne	1	0	0	ne	0
Northwest Indian C.	467	0	0	1	1	0	0	1	1
U. Hartford	467	4	7	5	1	4	7	5	1
All other surveyed institutions	-	49,975	4,605	3,450	0	33,529	2,087	1,436	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

<sup>a</sup> Johns Hopkins University includes the Applied Physics Laboratory (APL), with \$261,789 thousand imputed for total and \$251,135 thousand reported for federally financed R&D expenditures in computer and information sciences in FY 2021. Total expenditures by field for Johns Hopkins University are flagged as imputed because APL was unable to distribute a portion of institutionally funded R&D by field.

<sup>b</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

<sup>c</sup> The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

<sup>d</sup> The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

<sup>e</sup> The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

**Note(s):**

Institutions reporting zero expenditures in ranked total for FY 2021 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

**TABLE 40**  
**Higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2021 geosciences, atmospheric sciences, and ocean sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
All institutions	-	3,159,553	3,185,958	3,281,457	3,295,883	624,579	1,242,339	1,035,519	393,446
U. California, San Diego	1	159,294	180,626	201,331	185,870	7,727	38,898	139,245	0
Woods Hole Oceanographic Institution	2	143,179	145,169	143,240	160,059	36,704 i	66,248 i	42,901 i	14,206 i
U. Washington, Seattle	3	122,167	123,301	135,307	128,033	53,801	9,406	57,404	7,422
U. Colorado Boulder	4	136,586	121,624	119,824	118,876	30,868	12,891	2,609	72,508
Texas A&M U., College Station and Health Science Center	5	115,394	113,459	107,894	106,932	5,452	16,284	78,485	6,711
U. Alaska, Fairbanks	6	65,850	69,346	72,609	95,711	8,494	52,713	33,542	962
U. Oklahoma, Norman and Health Science Center	7	63,159	71,836	84,812	91,101	81,571	9,530	0	0
Johns Hopkins U. <sup>a</sup>	8	34,663 i	42,585 i	65,556 i	79,257 i	11,368 i	34,126 i	24,357 i	9,406 i
Columbia U. in the City of New York	9	80,240	75,900	78,288	77,515	10,482	32,077	34,956	0
U. Hawaii, Manoa	10	78,170	82,955	71,468	73,176	3,574	14,442	53,490	1,670
Arizona State U.	11	82,299	83,703	73,544	68,116	0	68,116	0	0
U. Wisconsin-Madison	12	50,280	58,701	65,000	65,814	39,038	17,180	0	9,596
U. Maryland <sup>b</sup>	13	na	52,823	58,099	61,660	14,573	41,169	2,464	3,454
Colorado State U., Fort Collins	14	116,804	85,500	67,642	60,073	42,825	15,441	0	1,807
U. New Hampshire	15	52,678	48,149	51,661	55,523	28,224	6,307	20,992	0
U. Texas, Austin	16	55,302	51,155	61,145	54,009	16	42,578	9,063	2,352
U. Rhode Island	17	47,018	50,513	42,634	52,469	0	11,501	32,011	8,957
U. Miami	18	50,321	48,427	50,684	50,826	35,988	0	13,932	906
U. Utah	19	12,580 i	27,848 i	20,011 i	47,024 i	0 i	41,384 i	0 i	5,640 i
California Institute of Technology	20	32,030	37,101	43,338	43,295 i	1,986 i	34,651 i	204 i	6,454 i
Oregon State U.	21	48,616	40,030	39,215	43,111	1,741	6,465	19,404	15,501
U. California, Los Angeles	22	38,361	38,106	41,594	41,818	8,669	27,493	0	5,656
U. Maryland Center for Environmental Science	23	42,675	43,867	43,554	40,621	84	3,398	36,862	277
Harvard U.	24	42,697	43,664	43,505	38,756	6,193	8,834	820	22,909
U. California, Santa Barbara	25	33,665	35,554	40,396	37,222	0	14,629	22,411	182
William & Mary	26	33,109	32,425	33,084	34,838	0	303	34,535	0
U. Arizona	27	28,947	31,075	31,148	32,088	7,273	21,648	2,261	906
Pennsylvania State U., University Park and Hershey Medical Center	28	50,302	46,390	41,590	31,930	16,523	13,007	2,400	0

TABLE 40

**Higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2021 geosciences, atmospheric sciences, and ocean sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
U. California, Santa Cruz	29	24,348	26,570	29,389	31,217	0	7,476	17,662	6,079
Massachusetts Institute of Technology	30	41,824	34,015	32,718	30,961	7,956	11,360	9,521	2,124
U. California, Davis	31	27,316	29,166	30,153	30,603	3,995	1,653	4,848	20,107
Princeton U.	32	28,636	24,755	23,819	29,203	12,846	7,670	386	8,301
Louisiana State U., Baton Rouge	33	31,488	31,853	32,283	28,763	0	3,597	19,120	6,046
SUNY, Stony Brook U.	34	25,646	26,282	25,334	26,694	154	6,542	19,885	113
U. Southern Mississippi	35	18,864	29,968	29,843	26,110	0	5,211	5,342	15,557
North Carolina State U.	36	19,819	21,691	27,010	25,579	6,504	0	6,271	12,804
U. Maine	37	22,741	25,039	24,874	24,778	0	6,687	18,068	23
Rutgers, State U. New Jersey, New Brunswick	38	19,173	18,036	25,634	24,326	2,528	141	21,232	425
Desert Research Institute	39	24,601	23,991	22,889	22,791	5,410	17,381	0	0
Stanford U.	40	18,036	17,624	20,216	21,216	0	11,821	2,827	6,568
U. South Florida <sup>c</sup>	41	26,509	25,127	24,670	19,373	0	6,911	12,460	2
U. Nevada, Reno	42	14,369	14,563	15,077	19,030	243	17,178	794	815
U. Delaware	43	20,689	18,346	17,697	18,173	0	3,575	8,990	5,608
U. Alabama, Huntsville	44	12,552	16,001	17,304	17,960	17,546	399	15	0
U. Georgia	45	22,530	23,281	20,493	17,846	0	3,577	14,269	0
U. North Carolina, Chapel Hill	46	19,136	16,922	19,242	16,879	0	5,690	6,294	4,895
Florida International U.	47	14,800	14,955	16,023	16,584	4,651	2,129	9,804	0
Michigan Technological U.	48	13,885	14,388	13,896	16,272	1,476	40	6,404	8,352
Florida State U.	49	20,650	18,343	20,816	16,252	4,423	2,979	7,935	915
U. Florida	50	16,846	17,186	17,740	16,189	0	9,582	6,607	0
SUNY, U. Albany	51	17,696	15,833	15,523	15,605	13,754	1,851	0	0
Mississippi State U.	52	8,947	10,928	17,335	15,520	1,332	10,865	3,169	154
U. Maryland, Baltimore County	53	20,275	13,585	15,158	15,087	1,599	10,678	2,208	602
U. Michigan, Ann Arbor	54	14,278	15,705	14,928	15,080	0	15,080	0	0
San Jose State U.	55	14,627	12,777	13,747	14,857	2,883	269	11,483	222
U. Southern California	56	16,323	16,850	19,983	14,323	0	10,291	4,032	0
Georgia Institute of Technology	57	12,380	12,260	12,904	13,998	344	13,347	307	0



TABLE 40

**Higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2021 geosciences, atmospheric sciences, and ocean sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
U. Minnesota, Twin Cities	58	14,248	14,391	14,715	13,634	0	13,634	0	0
U. California, Irvine	59	10,922	11,580	12,705	13,034	176	12,858	0	0
George Mason U.	60	11,977	11,598	10,679	12,577	5,254	6,485	513	325
Texas A&M U.-Corpus Christi	61	14,719	13,494	11,900	12,296	591	994	5,294	5,417
U. Massachusetts, Dartmouth	62	11,084	11,550	10,917	12,196	0	0	12,196	0
U. Kansas	63	11,329	10,594	10,485	11,923	842	11,081	0	0
U. Hawaii, system office	64	11,022	10,531	11,853	11,591	11,576	0	15	0
U. Wyoming	65	9,473	6,755	12,944	11,251	6,464	2,971	0	1,816
Nova Southeastern U.	66	7,857	8,878	11,436	10,973	0	0	10,973	0
U. Connecticut	67	10,356	10,974	9,186	10,483	0	746	9,737	0
U. California, Riverside	68	9,880	10,774	10,855	10,303	0	2,839	0	7,464
U. Pittsburgh, Pittsburgh	69	12,405	13,185	10,875	9,952	0	2,242	0	7,710
U. South Carolina, Columbia	70	1,781	988	8,374	9,609	0	900	8,709	0
U. Houston	71	8,002	10,516	9,437	9,292	4,960	3,501	331	500
Texas Tech U.	72	6,583	8,213	8,913	9,282	520	5,609	0	3,153
Washington State U.	73	8,441	10,109	9,440	8,946	3	1,103	46	7,794
U. Chicago	74	9,652	9,370	9,090	8,854	0	8,854	0	0
Montana Technological U.	75	7,162	7,235	7,825	8,222	0	8,222	0	0
Ohio State U.	76	9,286	9,030	9,158	7,979	0	7,979	0	0
Indiana U., Bloomington	77	5,528	7,220	8,053	7,960	2,945	1,546	0	3,469
Brown U.	78	4,306	4,310	5,954	7,954	0	2,151	189	5,614
Boston U.	79	7,105	8,701	8,573	7,876	0	7,876	0	0
U. California, Berkeley	80	11,473	9,429	9,845	7,857	2	7,855	0	0
Purdue U., West Lafayette	81	6,013	7,119	10,166	7,578	6,482	0	0	1,096
Boston C.	82	5,533	5,130	5,836	7,414	6,176	1,238	0	0
U. Wisconsin-Milwaukee	83	7,681	6,442	7,288	7,385	1,162	298	5,925	0
Texas State U.	84	5,402	7,349	7,357	7,338	2	1,692	0	5,644
Duke U.	85	11,171	11,077	9,675	7,310	0	1,186	6,124	0
New Mexico Institute of Mining and Technology	86	5,610	6,791	6,729	7,309	0	7,309	0	0

TABLE 40

**Higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2021 geosciences, atmospheric sciences, and ocean sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
Yale U.	87	7,613	6,995	5,916	7,021	0	7,021	0	0
Northern Arizona U.	88	9,714	7,984	7,408	6,790	96	5,122	41	1,531
U. New Mexico	89	7,775	7,329	6,924	6,727	393	6,334	0	0
Naval Postgraduate School	90	7,227	6,339	6,566	6,591	2,089	644	3,346	512
Cornell U.	91	6,568	6,531	8,145	6,589	1,136	5,218	235	0
U. of the Virgin Islands	92	542	830	3,639	6,508	0	184	4,405	1,919
U. Louisiana, Lafayette	93	3,290	3,957	5,426	6,277	0	5,186	1,091	0
U. North Dakota	94	4,056	6,713	6,781	6,234	5,562	672	0	0
U. Montana, Missoula	95	5,035	6,376	5,878	6,212	0	2,677	3,535	0
Washington U., Saint Louis	96	5,045	5,676	5,509	6,083	0	6,083	0	0
U. Nevada, Las Vegas	97	4,253	4,526	6,342	6,082	394	5,400	0	288
U. Oregon	98	3,785	4,871	6,704	6,060	0	5,486	574	0
U. Alaska, Anchorage	99	5,101	5,186	7,339	5,735	310	4,732	650	43
Colorado School of Mines	100	8,380	8,238	8,916	5,713	0	5,052	0	661
Michigan State U.	101	3,779	5,244	5,435	5,695	0	5,480	0	215
U. Arkansas, Fayetteville	102	4,287	4,449	3,499	5,686	0	5,686	0	0
Iowa State U.	103	3,659	3,917	4,538	5,650	0	5,650	0	0
Florida A&M U.	104	3,701	5,282	5,844	5,633	0	0	5,137	496
U. Illinois, Urbana-Champaign	105	7,272	6,868	6,281	5,521	3,785	1,736	0	0
Montana State U., Bozeman	106	5,125	5,618	5,603	5,468	0	4,099	0	1,369
Southern Methodist U.	107	5,941	6,954	6,100	5,367	0	5,367	0	0
U. Virginia, Charlottesville	108	4,785	5,352	6,040	5,356	3	0	0	5,353
U. Toledo	109	4,189	5,659	5,748	5,309	0	4,934	0	375
New Mexico State U.	110	4,939	3,908	5,381	5,067	203	2,165	0	2,699
U. Tennessee, Knoxville <sup>d</sup>	111	5,752	5,557	5,322	5,062	0	3,355	0	1,707
U. Guam	112	2,548	2,753	2,696	5,047	0	262	4,673	112
SUNY, U. Buffalo	113	4,479	3,533	3,739	4,912	0	4,912	0	0
U. Idaho	114	5,244	5,923	4,933	4,803	115	4,612	0	76
Rice U.	115	3,958	4,341	5,152	4,786	0	4,786	0	0

TABLE 40

**Higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2021 geosciences, atmospheric sciences, and ocean sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
Dartmouth C. and Dartmouth Hitchcock Medical Center	116	4,771	4,359	5,241	4,607	0	4,607	0	0
East Carolina U.	117	4,433	3,684	4,586	4,564	0	410	4,154	0
U. South Alabama	118	4,186	4,222	5,011	4,466	0	244	4,222	0
U. North Carolina, Wilmington	119	4,511	5,193	5,206	4,311	0	28	4,204	79
U. Alabama, Tuscaloosa	120	895	1,000	3,062	4,302	0	2,847	1,455	0
Tulane U.	121	3,753	4,317	4,825	4,217	0	4,217	0	0
U. Maryland, Eastern Shore	122	2,775	4,369	3,454	4,182	0	0	4,182	0
U. Memphis	123	4,629	4,117	5,493	4,089	0	4,089	0	0
Northeastern U.	124	4,296	4,603	4,039	4,044	0	1,195	2,849	0
Auburn U., Auburn	125	2,171	2,690	3,460	4,008	0	2,241	0	1,767
San Francisco State U.	126	3,233	4,297	3,759	3,975	229	394	3,077	275
West Virginia U.	127	7,266	10,049	9,625	3,965	0	3,320	0	645
U. Central Florida	128	5,039	4,486	4,008	3,951	3,935	0	16	0
U. California, Merced	129	3,165	2,916	2,943	3,849	126	1,621	0	2,102
Old Dominion U.	130	5,151	4,907	4,166	3,775	0	0	3,775	0
U. Texas, El Paso	131	2,566	3,168	3,426	3,757	0	3,747	0	10
Tarleton State U.	132	4,903	3,504	3,188	3,745	0	1,084	0	2,661
U. Massachusetts, Amherst	133	5,215	6,569	4,265	3,582	0	3,582	0	0
Virginia Polytechnic Institute and State U.	134	3,867	4,185	3,068	3,534	185	3,349	0	0
U. Texas, San Antonio	135	1,087	1,178	2,354	3,429	0	2,203	0	1,226
U. Puerto Rico, Rio Piedras	136	2,192	2,537	3,754	3,409	0	3,409	0	0
Western Washington U.	137	3,802	3,822	3,897	3,379	0	1,277	2,102	0
U. Kentucky	138	2,385	2,331	2,966	3,356	0	3,356	0	0
Morgan State U.	139	4,372	3,955	3,384	3,298	0	3,298	0	0
Florida Institute of Technology	140	2,559	2,096	2,310	3,254	905	208	2,006	135
U. Vermont	141	446	772	2,716	3,237	1,947	1,284	6	0
Boise State U.	142	5,633	3,536	3,660	3,129	68	2,938	87	36
Oklahoma State U., Stillwater	143	4,546	2,613	2,870	3,119	0	3,119	0	0
Syracuse U.	144	3,766	3,913	3,060	3,005	0	3,005	0	0

TABLE 40

**Higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2021 geosciences, atmospheric sciences, and ocean sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
U. Massachusetts, Boston	145	6,451	5,249	3,848	2,960	13	1,166	1,781	0
Hampton U.	146	4,022	3,779	3,454	2,881	2,212	0	661	8
U. Washington, Tacoma	147	1,452	1,827	2,089	2,838	0	0	2,838	0
Grand Valley State U.	148	3,124	2,818	2,887	2,803	0	6	0	2,797
Baylor U.	149	2,573	2,685	2,185	2,731	1,349	1,139	243	0
U. Massachusetts, Lowell	150	1,938	1,977	2,177	2,614	1,140	1,474	0	0
Southern Illinois U., Edwardsville	151	1,987	1,383	1,979	2,542	0	1,758	0	784
U. Rochester	152	2,702	2,765	3,104	2,536	0	2,536	0	0
Florida Gulf Coast U.	153	1,032	877	1,654	2,475	252	6	2,168	49
Saint Louis U.	154	1,161	1,281	1,174	2,264	0	2,264	0	0
Emory U.	155	1,675	1,237	1,075	2,217	0	0	0	2,217
Ohio U.	156	1,400	1,618	1,697	2,183	53	2,130	0	0
San Diego State U.	157	2,978	2,582	2,234	2,158	0	968	773	417
Utah State U.	158	1,836	1,150	511	2,146	1,133	1,013	0	0
Temple U.	159	1,721	1,559	2,044	2,108	0	2,108	0	0
U. Nebraska, Lincoln	160	4,014	3,639	2,943	2,028	0	2,028	0	0
U. Puerto Rico, Mayaguez	161	5,475	5,676	5,487	2,014	0	542	1,472	0
Florida Atlantic U.	162	1,017	1,149	1,186	2,013	369	0	0	1,644
U. Iowa	163	2,113	2,088	2,441	1,971	0	579	0	1,392
California State U., Monterey Bay	164	922	1,327	1,281	1,953	0	369	1,446	138
U. Pennsylvania	165	1,266	2,455	1,760	1,929	0	1,929	0	0
U. North Texas, Denton	166	747	1,444	2,064	1,879	0	1,879	0	0
Bowling Green State U.	167	723	1,112	1,903	1,875	0	412	1,463	0
Rutgers, State U. New Jersey, Newark	168	3,312	3,313	1,485	1,873	0	1,873	0	0
Rensselaer Polytechnic Institute	169	2,601	1,931	2,837	1,868	0	1,868	0	0
Vanderbilt U. and Vanderbilt U. Medical Center	170	3,355	1,586	1,919	1,861	0	1,861	0	0
Portland State U.	171	2,094	2,090	2,212	1,818	278	1,287	249	4
Montclair State U.	172	1,128	1,685	1,262	1,815	0	1,501	300	14
Heidelberg U.	173	911	1,222	1,125	1,725	0	0	1,725	0

TABLE 40

**Higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2021 geosciences, atmospheric sciences, and ocean sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
Western Michigan U. and Homer Stryker M.D. School of Medicine	174	1,278	1,546	1,402	1,660	0	1,660	0	0
U. Texas Rio Grande Valley	175	1,280	2,049	1,769	1,649	0	17	1,507	125
Southern Illinois U., Carbondale	176	1,271	1,354	848	1,643	8	561	0	1,074
SUNY, Binghamton U.	177	2,108	2,026	1,916	1,636	0	1,636	0	0
Idaho State U.	178	2,913	1,447	1,792	1,627	0	994	0	633
Sonoma State U.	179	ne	ne	571	1,617	0	472	201	944
CUNY, City C.	180	2,113	2,459	1,699	1,600	0	1,600	0	0
Georgia State U.	181	1,070	1,268	1,104	1,500	0	1,500	0	0
California State U., East Bay	182	ne	ne	1,029	1,493	0	1,493	0	0
Monmouth U.	183	ne	1,082	1,621	1,492	0	0	1,492	0
Coastal Carolina U.	184	1,301	1,573	1,690	1,415	462	40	913	0
Northwestern U.	185	1,627	1,547	1,351	1,342	0	1,342	0	0
U. Mississippi	186	1,797	1,726	1,151	1,306	342	324	640	0
Pennsylvania State U., Behrend	187	1,034	1,154	250	1,249	126	32	1,091	0
U. Missouri, Columbia	187	1,005	1,335	988	1,249	0	1,232	17	0
U. New Orleans	189	2,356	1,778	1,585	1,244	0	1,244	0	0
Central Washington U.	190	1,779	2,110	1,525	1,204	0	1,204	0	0
Occidental C.	191	573	817	1,086	1,201	0	141	1,060	0
Embry-Riddle Aeronautical U.	192	1,475	818	1,336	1,200	1,200	0	0	0
Clark U.	193	1,052	1,787	1,890	1,197	0	1,052	145	0
U. Hawaii, Hilo	194	785	842	894	1,195	0	719	476	0
C. Charleston	195	1,365	1,212	1,048	1,156	200	458	498	0
Humboldt State U.	196	2,660	1,490	1,464	1,141	314	122	697	8
Kansas State U.	197	2,574	2,337	1,479	1,130	0	1,130	0	0
California Polytechnic State U., San Luis Obispo	198	1,410	1,362	1,105	1,106	0	0	1,106	0
Lehigh U.	199	1,166	1,191	1,510	1,087	0	1,048	0	39
Northwest Indian C.	200	466	1,043	1,033	1,084	301	305	477	1
Miami U.	201	1,241	1,031	1,354	1,071	0	1,071	0	0
U. North Carolina, Charlotte	202	366	1,111	1,009	1,054	0	1,054	0	0

TABLE 40

**Higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2021 geosciences, atmospheric sciences, and ocean sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
Kent State U.	203	1,022	942	958	1,038	25	959	0	54
American U.	204	511	482	642	1,035	0	0	0	1,035
CUNY, Advanced Science Research Center	205	1,442	3	104	1,030	0	209	821	0
Western Kentucky U.	206	1,175	979	842	1,013	122	866	0	25
CUNY, Hunter C.	207	1,297	1,147	1,339	1,010	0	1,010	0	0
Alaska Pacific U.	208	1,210	1,406	1,196	1,005	0	54	871	80
SUNY, C. of Environmental Science and Forestry	209	1,131	554	1,211	995	151	633	116	95
Salisbury U.	210	1,274	1,334	891	988	0	929	0	59
U. Illinois, Chicago	211	653	701	1,021	943	0	943	0	0
Indiana U.-Purdue U., Indianapolis	212	1,266	926	1,272	938	0	938	0	0
U. Cincinnati	213	1,439	1,143	1,171	913	0	913	0	0
Carleton C.	214	292	1,607	863	900	0	900	0	0
Georgia Southern U.	215	259	774	719	890	32	689	98	71
Stockton U.	216	2,171	2,484	2,789	885	15	0	776	94
SUNY, Buffalo State	217	915	1,050	895	869	0	209	0	660
U. New England	218	1,092	1,405	936	867	0	0	867	0
U. Texas, Arlington	218	1,275	1,289	877	867	0	867	0	0
Brigham Young U., Provo	220	302	567	461	853	0	853	0	0
Savannah State U.	221	591	633	728	815	0	146	527	142
SUNY, C. Plattsburgh	222	476	850	824	813	0	7	806	0
Northern Illinois U.	223	568	395	553	803	0	662	0	141
South Dakota State U.	224	3,991	1,933	904	801	197	604	0	0
Roger Williams U.	225	913	700	730	777	0	0	736	41
California State U., Sacramento	226	934	909	839	752	0	752	0	0
California State U., Northridge	227	1,859	1,832	2,158	731	0	340	148	243
West Texas A&M U.	228	191	434	219	688	676	0	0	12
North Dakota State U.	229	296	714	553	680	0	680	0	0
Colgate U.	230	765	511	453	677	0	460	0	217
Rockefeller U.	231	1,052	974	986	660	0	0	0	660

TABLE 40

**Higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2021 geosciences, atmospheric sciences, and ocean sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
U.S. Naval Academy	232	1,110	1,079	775	649	0	0	649	0
James Madison U.	233	678	1,003	753	628	0	461	0	167
Austin Peay State U.	234	56	14	596	611	0	608	0	3
U. Texas, Dallas	235	938	907	856	598	0	598	0	0
Illinois State U.	236	474	809	788	591	0	591	0	0
Amherst C.	237	74	169	439	567	0	567	0	0
Central Michigan U.	238	644	661	677	557	145	275	134	3
CUNY, York C.	239	ne	85	527	543	256	287	0	0
Case Western Reserve U.	240	789	591	523	536	0	536	0	0
Loyola Marymount U.	241	805	761	489	527	0	63	0	464
Duquesne U.	242	77	84	584	510	0	510	0	0
CUNY, Brooklyn C.	243	625	631	645	504	0	504	0	0
William Paterson U.	244	156	299	579	487	0	333	0	154
Towson U.	245	650	653	709	481	0	481	0	0
St. Edward's U.	246	440	1,077	528	478	409	10	0	59
U. Akron	247	187	192	285	467	0	467	0	0
U. Dayton	248	225	428	359	465	311	154	0	0
U. Minnesota, Duluth	249	1,245	3,466	2,480	451	0	451	0	0
Wesleyan U.	250	512	444	821	450	0	322	0	128
Villanova U.	251	824	809	826	443	0	381	62	0
New York U.	252	361	434	401	436	0	242	194	0
U. Alabama, Birmingham	252	1,199	870	701	436	436	0	0	0
California State U., Chico	254	160	140	395	426	0	426	0	0
Middlebury C.	255	260	270	240	425	0	316	0	109
U. Washington, Bothell	256	116	462	371	405	362	36	7	0
Marshall U.	257	39	164	258	404	0	0	0	404
CUNY, Queens C.	258	414	427	817	402	0	402	0	0
Rowan U.	259	481	451	409	397	0	397	0	0
California State U., Fresno	260	113	125	147	379	0	379	0	0

TABLE 40

**Higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2021 geosciences, atmospheric sciences, and ocean sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
U. Colorado Denver <sup>e</sup>	260	na	na	na	379	379	0	0	0
Delaware State U.	262	956	633	385 i	377	0	4	373	0
Tufts U.	262	1,151	482	472	377	0	219	109	49
U. Wisconsin-Stevens Point	264	201 i	214 i	226	368	0	368	0	0
Carnegie Mellon U.	265	1,599	994	448	364	281	0	83	0
Appalachian State U.	266	945	583	499	357	136	221	0	0
Bowdoin C.	267	562	507	635	328	0	16	312	0
Oregon Institute of Technology	267	0 i	358 i	312 i	328 i	0 i	0 i	0 i	328 i
Skidmore C.	269	495	762	632	320	0	320	0	0
Wichita State U.	269	36	25	44	320	0	320	0	0
SUNY, C. Brockport	271	85	396	353	319	0	319	0	0
Tennessee State U.	272	0	0	297	314 i	0 i	314 i	0 i	0 i
Western Carolina U.	272	489	494	297	314	0	30	284	0
Chapman U.	274	274	231	212	304	28	0	0	276
Southern Connecticut State U.	275	109	168	253	300	50	74	176	0
Albany State U.	276	288	18	19	299	16	261	0	22
North Carolina Central U.	277	287	303	321	294	0	294	0	0
Hawaii Pacific U.	278	318	324	220	289	0	38	251	0
Howard U.	278	618	248	225	289	0	0	289	0
Wayne State U.	280	339	412	296	288	0	288	0	0
Lewis and Clark C.	281	195	294	212	280	27	251	0	2
Virginia Commonwealth U.	282	1,196	871	354	278	0	0	0	278
DePaul U.	283	27	37	91	276	0	276	0	0
U. Puerto Rico, Medical Sciences Campus	284	0	29	136	265	0	265	0	0
Long Island U.	285	0	40	345	261	0	261	0	0
U. North Carolina, Asheville	286	412	128	84	260	86	150	0	24
Union C., Schenectady	287	625	189	154	252	0	252	0	0
Louisiana Tech U.	288	76	77	84	236	0	0	0	236
California State U., Fullerton	289	693	420	329	229	0	87	142	0



TABLE 40

**Higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2021 geosciences, atmospheric sciences, and ocean sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
Smith C.	290	69	117	36	228	0	228	0	0
U. Alaska, Southeast	290	424	309	222	228	0	59	169	0
California State U., Long Beach	292	209	125	514	226	0	226	0	0
U. San Diego	292	583	185	163	226	0	0	226	0
Illinois Institute of Technology	294	416	246	398	224	109	115	0	0
U. of St. Thomas (MN)	295	56	15	18	222	0	222	0	0
Macalester C.	296	210	427	390	221	97	45	0	79
U. Richmond	297	49	49	62	218	0	218	0	0
SUNY, Geneseo	298	301	298	239	212	0	212	0	0
U. Colorado Anschutz Medical Campus <sup>e</sup>	298	na	na	na	212	212	0	0	0
Des Moines U.	300	162	82	197	206	0	206	0	0
U. San Francisco	301	295	194	106	204	81	43	0	80
U. Tulsa	302	223	112	213	202	0	202	0	0
Williams C.	303	180	205	195	200	0	191	0	9
New Mexico Highlands U.	304	70	ne	189	198	0	198	0	0
Pomona C.	305	131	236	274	193	0	136	0	57
U. Missouri, Kansas City	306	495	402	308	190	0	117	5	68
Colby C.	307	122	152	193	187	0	187	0	0
U. Louisville	308	192	197	180	185	114	63	8	0
U. Minnesota, Morris	309	ne	216	227	180	0	180	0	0
Missouri State U.	310	133	34	95	177	2	175	0	0
U. of the District of Columbia	310	102	84	41	177	0	177	0	0
Air Force Institute of Technology	312	1,792	967	742	175	175	0	0	0
George Washington U.	312	716	288	436	175	0	17	0	158
Clarkson U.	314	0	4	59	172	0	142	30	0
New School	315	330	800	537	169	0	0	0	169
Barnard C.	316	24	9	60	164	0	160	4	0
Wright State U.	317	570	312	210	163	0	163	0	0
Bryn Mawr C.	318	268	185	260	151	0	151	0	0

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**Higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2021 geosciences, atmospheric sciences, and ocean sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
California State Polytechnic U., Pomona	318	319	295	68	151	0	0	9	142
U. Northern Iowa	318	165	161	142	151	0	0	0	151
U. Northern Colorado	321	74	140	296	147	0	147	0	0
Haverford C.	322	154 i	229 i	229 i	145 i	0 i	89 i	48 i	8 i
Providence C.	323	103	166	160	144	0	0	144	0
U. Hawaii, Maui C.	323	ne	ne	ne	144	0	0	144	0
Eastern Connecticut State U.	325	110	22	101	143	0	143	0	0
U. Colorado Colorado Springs	326	55	79	173	141	81	60	0	0
Murray State U.	327	181	120	134	139	0	139	0	0
California State U., Bakersfield	328	299	262	176	134	0	134	0	0
U. North Georgia	329	121	129	133	132	0	132	0	0
St. Cloud State U.	330	12	13	217	128	0	128	0	0
Middle Tennessee State U.	331	134	500	48	126	0	126	0	0
U. Wisconsin-Oshkosh	331	125 i	126 i	126 i	126	0	126	0	0
Sam Houston State U.	333	31	86	72	124	0	124	0	0
Stephen F. Austin State U.	334	342	292	177	121	0	117	4	0
Texas Christian U.	334	168	178	248	121	0	121	0	0
Franklin and Marshall C.	336	355	710	232	119	0	92	0	27
Fort Hays State U.	337	ne	331	298	117	0	116	0	1
Colorado C.	338	58	109	96	114	0	114	0	0
Ithaca C.	338	ne	ne	6	114	79	15	20	0
Eastern Michigan U.	340	505	399	172	108	0	76	10	22
Central State U.	341	122	163	126	102	0	102	0	0
Northern Michigan U.	342	207	155	91	101	0	101	0	0
Trinity U.	343	46	113	56	96	0	96	0	0
U. New Haven	344	185	152	143	93	73	0	20	0
Dillard U.	345	0	0	0	87	0	37	0	50
Wellesley C.	346	30	154	161	86	17	69	0	0
Albion C.	347	80	53	84	82 i	0 i	82 i	0 i	0 i

TABLE 40

**Higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2021 geosciences, atmospheric sciences, and ocean sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
Fort Valley State U.	347	0	0	0	82	0	82	0	0
U. Wisconsin-Green Bay	347	66 i	92 i	90 i	82 i	0 i	82 i	0 i	0 i
Wheaton C., Wheaton	350	49	136	130	81	0	81	0	0
Central Connecticut State U.	351	ne	61	91	79	0	79	0	0
Texas Southern U.	351	0	140	197	79	0	0	0	79
Furman U.	353	121	16	47	78	0	78	0	0
Northland C.	353	ne	ne	ne	78 i	0 i	67 i	0 i	11 i
Indiana State U.	355	42	199	120	74	0	74	0	0
St. Olaf C.	356	13	102	38	71	13	0	58	0
SUNY, Oswego	356	63	52	73	71	18	53	0	0
U. Wisconsin-Eau Claire	358	1	8	8	69	0	69	0	0
Northeastern Illinois U.	359	150	131	50	68	0	68	0	0
U. Louisiana, Monroe	360	33	307	46	64	61	0	0	3
Eastern Washington U.	361	45	66	58	61	0	61	0	0
Kean U.	361	ne	ne	301	61	0	61	0	0
Lincoln U., Jefferson City	363	0	0	0	60	23	37	0	0
C. Wooster	364	103	120	59	59 i	0 i	59 i	0 i	0 i
Hope C.	364	0	0	20	59	0	59	0	0
West Chester U. Pennsylvania	366	77	60	65	55	0	55	0	0
Seattle U.	367	4	37	42	54	0	0	54	0
U. of Mary Washington	367	25	17	97	54	0	54	0	0
Hofstra U.	369	9	20	4	53	1	50	2	0
Willamette U.	369	43	14	4	53	0	50	3	0
U. Denver	371	108	186	168	52	0	52	0	0
U. Houston-Downtown	371	8	27	94	52	0	0	17	35
California State U., San Bernardino	373	40	118	87	51	0	51	0	0
Fort Lewis C.	374	ne	22	56	46	0	28	0	18
CUNY, Baruch C.	375	135	79	198	44	0	7	0	37
U. of the Pacific	376	0	0	0	43	0	43	0	0

TABLE 40

**Higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2021 geosciences, atmospheric sciences, and ocean sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
Mercyhurst U.	377	ne	41 i	42 i	42 i	0 i	33 i	0 i	9 i
Sacred Heart U.	378	ne	ne	ne	40	8	0	32	0
Texas A&M International U.	379	232	96	84	39	0	39	0	0
Bates C.	380	100	119	119	37	0	37	0	0
Dakota State U.	380	0	0	18	37	0	37	0	0
Saginaw Valley State U.	382	30	11	36	36 i	0 i	4 i	0 i	32 i
U. Nebraska, Omaha	383	113	7	18	34	0	34	0	0
U.S. Air Force Academy	383	0	0	0	34	0	34	0	0
Indiana U. Pennsylvania	385	233	497	161	33	0	29	0	4
Andrews U.	386	ne	64	45	32	0	32	0	0
Calvin U.	387	2	37	35 i	31 i	0 i	31 i	0 i	0 i
Troy U.	387	ne	ne	49	31	0	0	31	0
Suffolk U.	389	ne	ne	28	28	0	0	28	0
Oberlin C.	390	224	157	93	27	0	27	0	0
Claffin U.	391	138	259	37	26	26	0	0	0
East Tennessee State U.	391	29 i	6 i	0 i	26 i	0 i	26 i	0 i	0 i
Lamar U.	393	45	0	0	24	0	24	0	0
Tennessee Technological U.	393	56	74	60	24	0	24	0	0
California State U., Los Angeles	395	0	0 i	0	23	0	23	0	0
Hobart and William Smith Colleges	395	ne	118	148	23	22	1	0	0
Pennsylvania State U., Harrisburg	397	0	11	5	22	11	11	0	0
Sul Ross State U.	397	2	0	22	22 i	0 i	22 i	0 i	0 i
U. Central Arkansas	397	4	0	20	22	0	22	0	0
U. North Florida	400	132	144	10	21	0	0	0	21
CUNY, Lehman C.	401	37	0	37	20	0	20	0	0
U. Southern Maine	402	3	41	42	18	0	0	18	0
U. West Florida	402	189	138	875	18	0	18	0	0
U. Wisconsin-La Crosse	402	25	31	35	18	0	18	0	0
Claremont McKenna C.	405	93	173	29	17	0	0	0	17

TABLE 40

**Higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2021 geosciences, atmospheric sciences, and ocean sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
U. Puerto Rico, Humacao	405	0	0	0	17	0	0	0	17
Vassar C.	405	0	i 11	0	17	0	17	0	0
California State U., San Marcos	408	379	0	47	13	0	0	8	5
California State U., Stanislaus	408	0	0	1	13	0	13	0	0
Minnesota State U., Mankato	408	62	32	1	13	0	13	0	0
U. Wisconsin-Superior	411	34	25	30	11	0	11	0	0
Bucknell U.	412	102	94	12	i 10	0	8	0	2
Eastern Kentucky U.	412	21	7	4	10	0	0	0	10
California State U., Dominguez Hills	414	13	7	13	8	0	0	0	8
Virginia State U.	414	54	157	0	8	8	0	0	0
Morehead State U.	416	22	7	16	7	0	7	0	0
Lafayette C.	417	13	0	8	5	0	5	0	0
Northeast Ohio Medical U.	417	3	6	0	5	0	5	0	0
Midwestern U.	419	0	0	0	4	0	0	0	4
Gallaudet U.	420	56	71	10	2	0	0	2	0
Jackson State U.	420	1,562	1,794	189	2	2	0	0	0
Kentucky State U.	420	186	0	0	2	0	2	0	0
U.S. Military Academy	420	245	111	98	2	0	2	0	0
Alfred U.	424	0	0	1	1	0	0	0	1
Hamilton C.	424	29	72	15	1	0	1	0	0
Indiana U., South Bend	424	0	ne	ne	1	0	0	0	1
All other surveyed institutions	-	65,036	12,222	6,995	0	0	0	0	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

nec = not elsewhere classified.

<sup>a</sup> Johns Hopkins University includes the Applied Physics Laboratory (APL), with \$64,954 thousand imputed for total R&D expenditures in geosciences, atmospheric sciences, and ocean sciences in FY 2021. Total expenditures by field for Johns Hopkins University are flagged as imputed because APL was unable to distribute a portion of institutionally funded R&D by field.

<sup>b</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

<sup>c</sup> The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

<sup>d</sup> The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

<sup>e</sup> The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

**Note(s):**

Institutions reporting zero expenditures in ranked total for FY 2021 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

**TABLE 41**  
**Federally financed higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2021 geosciences, atmospheric sciences, and ocean sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
All institutions	-	2,048,305	2,067,239	2,109,698	2,145,163	484,265	772,157	640,634	248,107
Woods Hole Oceanographic Institution	1	110,718	112,979	115,744	129,085	33,059 i	49,318 i	37,492 i	9,216 i
U. Colorado Boulder	2	132,846	119,659	116,177	116,175	29,237	12,356	2,419	72,163
U. California, San Diego	3	88,060	120,294	128,962	107,137	2,362	14,859	89,916	0
U. Washington, Seattle	4	96,422	100,000	114,555	105,493	50,597	7,721	45,092	2,083
Texas A&M U., College Station and Health Science Center	5	88,535	86,781	82,072	81,667	4,295	5,675	67,764	3,933
U. Alaska, Fairbanks	6	50,997	50,566	54,408	76,984	5,466	48,100	23,361	57
Johns Hopkins U. <sup>a</sup>	7	29,412	37,235	59,766	73,509	10,746	31,584	23,026	8,153
U. Oklahoma, Norman and Health Science Center	8	43,991	54,007	64,742	69,382	67,046	2,336	0	0
U. Maryland <sup>b</sup>	9	na	46,763	51,008	55,924	14,228	37,953	888	2,855
Columbia U. in the City of New York	10	65,302	61,544	54,388	53,955	6,151	17,050	30,754	0
Arizona State U.	11	52,476	59,778	54,650	49,889	0	49,889	0	0
Colorado State U., Fort Collins	12	100,566	70,266	55,722	46,601	35,927	9,046	0	1,628
U. Hawaii, Manoa	13	55,156	58,526	47,728	45,399	2,264	9,527	32,329	1,279
U. New Hampshire	14	38,709	36,870	41,304	44,691	24,076	4,373	16,242	0
U. Miami	15	36,182	36,297	39,430	44,559	33,401	0	10,460	698
Oregon State U.	16	41,429	34,363	33,730	37,629	1,618	6,085	15,674	14,252
U. Wisconsin-Madison	17	36,826	36,615	35,879	35,050	24,419	7,127	0	3,504
U. Rhode Island	18	28,307	32,874	25,349	33,815	0	2,928	24,263	6,624
U. California, Los Angeles	19	26,061	24,970	27,134	31,060	6,441	23,382	0	1,237
U. Utah	20	7,255	15,150	11,112	30,710	0	27,390	0	3,320
California Institute of Technology	21	22,753	25,436	27,071	25,067	1,480	20,764	196	2,627
Harvard U.	22	26,892	27,835	28,723	24,827	3,362	3,770	739	16,956
Princeton U.	23	17,747	15,933	16,105	21,115	11,928	3,226	386	5,575
U. Texas, Austin	24	23,228	19,745	20,523	20,837	0	15,667	3,403	1,767
Massachusetts Institute of Technology	25	27,772	22,382	20,477	20,764	6,199	8,112	5,153	1,300
U. Southern Mississippi	26	9,366	21,324	21,092	20,411	0	4,892	3,451	12,068
Pennsylvania State U., University Park and Hershey Medical Center	27	31,354	28,218	24,605	20,062	7,858	10,023	2,181	0
Desert Research Institute	28	17,665	16,557	15,748	16,608	3,363	13,245	0	0

**TABLE 41**  
**Federally financed higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2021 geosciences, atmospheric sciences, and ocean sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
U. California, Santa Barbara	29	13,504	14,799	16,190	16,253	0	8,606	7,645	2
U. California, Santa Cruz	30	11,487	12,725	15,234	15,976	0	2,801	8,629	4,546
U. Alabama, Huntsville	31	10,004	12,920	14,123	14,376	13,971	390	15	0
U. Arizona	32	13,117	13,372	13,625	13,788	2,522	10,068	924	274
U. Maryland, Baltimore County	33	14,629	10,807	12,497	12,883	1,520	9,905	872	586
North Carolina State U.	34	12,401	12,946	13,202	12,866	5,722	0	1,345	5,799
Rutgers, State U. New Jersey, New Brunswick	35	14,353	11,993	16,060	12,836	939	44	11,666	187
SUNY, Stony Brook U.	36	11,179	11,996	10,824	12,214	0	4,350	7,862	2
William & Mary	37	14,448	14,272	12,158	12,138	0	216	11,922	0
George Mason U.	38	10,804	9,912	9,390	11,636	4,782	6,110	427	317
U. Delaware	39	12,351	10,066	10,785	11,596	0	2,557	4,817	4,222
U. North Carolina, Chapel Hill	40	11,903	11,158	12,873	11,575	0	3,800	3,512	4,263
Mississippi State U.	41	5,817	7,793	13,635	11,429	580	8,482	2,252	115
U. Hawaii, system office	42	11,020	10,531	11,673	11,375	11,360	0	15	0
U. South Florida <sup>c</sup>	43	10,896	10,880	10,327	9,935	0	2,108	7,827	0
Michigan Technological U.	44	8,473	8,715	8,015	9,646	1,370	4	3,662	4,610
Florida International U.	45	8,001	7,987	9,463	9,569	2,049	540	6,980	0
U. California, Irvine	46	8,857	9,510	9,301	9,271	0	9,271	0	0
U. Maine	47	10,472	9,385	9,064	8,996	0	1,392	7,603	1
Stanford U.	48	8,710	7,690	8,906	8,901	0	6,732	1,475	694
U. Wyoming	49	5,959	5,473	10,107	8,601	6,287	2,289	0	25
U. Minnesota, Twin Cities	50	7,622	8,058	7,624	8,548	0	8,548	0	0
U. Chicago	51	8,644	8,639	8,514	8,384	0	8,384	0	0
U. Florida	52	10,165	9,497	8,484	8,334	0	6,235	2,099	0
U. Southern California	53	10,908	10,664	9,079	8,192	0	6,639	1,553	0
U. Michigan, Ann Arbor	54	7,281	8,070	8,059	7,910	0	7,910	0	0
Florida State U.	55	8,332	8,123	8,871	7,904	1,247	1,221	4,872	564
Georgia Institute of Technology	56	8,340	7,822	7,862	7,744	0	7,516	228	0
Louisiana State U., Baton Rouge	57	7,956	7,883	8,178	7,740	0	1,011	5,607	1,122



**TABLE 41**  
**Federally financed higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2021 geosciences, atmospheric sciences, and ocean sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
U. Connecticut	58	5,866	6,674	7,020	7,650	0	490	7,160	0
U. Pittsburgh, Pittsburgh	59	8,521	8,568	7,374	7,431	0	1,359	0	6,072
U. Maryland Center for Environmental Science	60	7,064	8,301	8,462	7,217	0	124	6,872	221
U. Georgia	61	6,109	6,855	6,304	7,051	0	289	6,762	0
San Jose State U.	62	10,336	8,618	7,847	6,871	1,807	123	4,941	0
SUNY, U. Albany	63	8,969	6,728	6,953	6,809	5,847	962	0	0
New Mexico Institute of Mining and Technology	64	5,010	6,235	6,328	6,427	0	6,427	0	0
Naval Postgraduate School	65	5,993	5,268	6,300	6,195	1,824	644	3,346	381
U. New Mexico	66	6,957	6,674	6,249	6,164	373	5,791	0	0
Boston U.	67	5,287	5,898	6,447	6,053	0	6,053	0	0
U. Nevada, Reno	68	6,940	6,263	6,910	6,038	114	5,171	221	532
U. California, Davis	69	6,596	6,459	7,014	5,881	1,210	1,032	415	3,224
Ohio State U.	70	6,182	6,216	6,489	5,685	0	5,685	0	0
Washington U., Saint Louis	71	4,750	5,192	5,000	5,585	0	5,585	0	0
Boston C.	72	4,067	3,209	3,871	5,459	4,788	671	0	0
Duke U.	73	6,987	7,079	6,194	5,406	0	1,049	4,357	0
U. Oregon	74	3,286	4,038	5,073	5,371	0	4,929	442	0
Brown U.	75	2,166	2,488	3,436	5,321	0	1,234	189	3,898
Florida A&M U.	76	3,458	4,945	5,329	5,255	0	0	4,848	407
U. of the Virgin Islands	77	542	713	2,990	5,241	0	88	4,248	905
U. California, Berkeley	78	6,670	5,638	5,816	5,198	0	5,198	0	0
Nova Southeastern U.	79	3,210	3,515	5,381	5,135	0	0	5,135	0
Washington State U.	80	4,276	4,767	5,323	5,103	0	523	0	4,580
U. Guam	81	2,382	2,620	2,585	5,001	0	216	4,673	112
Northern Arizona U.	82	7,751	6,805	5,975	4,968	96	3,506	32	1,334
U. Illinois, Urbana-Champaign	83	6,121	5,967	5,419	4,965	3,526	1,439	0	0
Cornell U.	84	5,072	4,796	6,428	4,852	910	3,847	95	0
U. California, Riverside	85	4,555	4,237	4,821	4,764	0	1,847	0	2,917
U. Alaska, Anchorage	86	4,355	4,476	6,432	4,761	256	3,940	522	43

**TABLE 41**  
**Federally financed higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2021 geosciences, atmospheric sciences, and ocean sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
U. Kansas	87	4,879	3,873	4,622	4,531	644	3,887	0	0
Texas Tech U.	88	2,326	2,843	3,340	4,463	162	3,061	0	1,240
U. Maryland, Eastern Shore	89	2,775	4,369	3,454	4,182	0	0	4,182	0
U. Massachusetts, Dartmouth	90	2,393	2,297	2,680	4,040	0	0	4,040	0
Purdue U., West Lafayette	91	3,140	3,042	4,079	3,938	3,938	0	0	0
Southern Methodist U.	92	3,324	4,100	4,026	3,893	0	3,893	0	0
U. Louisiana, Lafayette	93	872	1,089	1,050	3,772	0	2,944	828	0
Colorado School of Mines	94	4,025	4,981	4,424	3,708	0	3,562	0	146
Montana State U., Bozeman	95	4,787	4,215	3,123	3,609	0	2,598	0	1,011
U. Virginia, Charlottesville	96	2,870	3,896	4,059	3,582	0	0	0	3,582
U. Houston	97	2,588	2,213	2,948	3,418	1,277	1,348	331	462
U. Montana, Missoula	98	2,393	2,967	3,195	3,391	0	1,859	1,532	0
U. Toledo	99	2,773	3,474	3,227	3,371	0	3,371	0	0
U. Arkansas, Fayetteville	100	2,464	3,009	2,460	3,326	0	3,326	0	0
Morgan State U.	101	4,372	3,955	3,351	3,298	0	3,298	0	0
U. South Carolina, Columbia	102	1,079	983	3,889	3,288	0	0	3,288	0
New Mexico State U.	103	3,752	2,797	3,870	3,286	16	878	0	2,392
U. Nevada, Las Vegas	104	2,578	2,543	3,541	3,096	392	2,505	0	199
Texas A&M U.-Corpus Christi	105	5,216	4,273	3,609	3,075	316	306	1,592	861
Michigan State U.	106	2,386	2,983	2,792	3,071	0	3,071	0	0
Hampton U.	107	4,022	3,779	3,454	2,881	2,212	0	661	8
U. North Dakota	108	1,958	3,056	3,730	2,794	2,559	235	0	0
Iowa State U.	109	1,568	1,776	2,890	2,725	0	2,725	0	0
U. Puerto Rico, Rio Piedras	110	1,664	1,932	3,108	2,639	0	2,639	0	0
U. Tennessee, Knoxville <sup>d</sup>	111	2,611	3,160	2,644	2,558	0	1,876	0	682
Yale U.	112	3,142	3,053	2,704	2,553	0	2,553	0	0
Rice U.	113	1,995	1,929	2,747	2,546	0	2,546	0	0
Indiana U., Bloomington	114	1,692	1,630	1,602	2,420	1,303	773	0	344
Northeastern U.	115	2,665	3,174	2,235	2,358	0	1,000	1,358	0

**TABLE 41**  
**Federally financed higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2021 geosciences, atmospheric sciences, and ocean sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
SUNY, U. Buffalo	116	2,925	2,286	2,537	2,325	0	2,325	0	0
U. Wisconsin-Milwaukee	117	2,142	1,903	1,862	2,323	885	0	1,438	0
U. Washington, Tacoma	118	985	1,443	1,861	2,290	0	0	2,290	0
Boise State U.	119	4,272	2,556	2,730	2,250	54	2,090	72	34
U. Rochester	120	2,082	2,112	2,392	2,207	0	2,207	0	0
Texas State U.	121	2,932	3,137	2,870	2,168	2	1,531	0	635
U. Massachusetts, Amherst	122	2,936	4,021	2,803	2,117	0	2,117	0	0
Old Dominion U.	123	3,590	3,290	2,793	2,096	0	0	2,096	0
Tulane U.	124	1,574	1,478	1,796	2,074	0	2,074	0	0
U. Texas, San Antonio	125	788	617	991	2,037	0	850	0	1,187
U. Puerto Rico, Mayaguez	126	4,246	3,975	3,896	2,014	0	542	1,472	0
U. California, Merced	127	1,404	1,391	1,783	1,948	61	276	0	1,611
U. Idaho	128	2,588	2,451	1,662	1,924	91	1,757	0	76
U. South Alabama	129	1,188	1,499	2,048	1,883	0	209	1,674	0
Emory U.	130	1,145	801	684	1,856	0	0	0	1,856
U. Vermont	131	399	606	1,471	1,824	1,197	627	0	0
U. Massachusetts, Lowell	132	971	1,218	1,399	1,789	947	842	0	0
San Francisco State U.	133	875	1,442	1,755	1,773	0	98	1,564	111
West Virginia U.	134	3,992	6,255	6,352	1,749	0	1,749	0	0
Virginia Polytechnic Institute and State U.	135	2,218	2,251	1,619	1,732	145	1,587	0	0
Auburn U., Auburn	136	1,424	1,026	1,003	1,675	0	699	0	976
U. Kentucky	137	644	862	1,466	1,652	0	1,652	0	0
U. Memphis	138	1,938	1,605	1,887	1,590	0	1,590	0	0
Rutgers, State U. New Jersey, Newark	139	2,295	2,921	1,372	1,587	0	1,587	0	0
U. Texas, El Paso	140	1,662	1,550	1,251	1,512	0	1,512	0	0
Portland State U.	141	1,764	1,895	1,784	1,510	228	1,029	249	4
U. Central Florida	142	1,590	1,654	1,768	1,498	1,498	0	0	0
Bowling Green State U.	143	269	640	1,330	1,495	0	226	1,269	0
CUNY, City C.	144	1,902	2,103	1,578	1,460	0	1,460	0	0

**TABLE 41**  
**Federally financed higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2021 geosciences, atmospheric sciences, and ocean sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
Sonoma State U.	145	ne	ne	529	1,412	0	467	19	926
Florida Gulf Coast U.	146	408	615	1,344	1,329	252	0	1,077	0
Florida Institute of Technology	147	761	612	780	1,326	690	208	428	0
U. North Carolina, Wilmington	148	1,019	1,398	1,369	1,318	0	23	1,295	0
Rensselaer Polytechnic Institute	149	1,165	1,111	1,673	1,299	0	1,299	0	0
U. Mississippi	150	696	614	617	1,220	336	312	572	0
East Carolina U.	151	406	851	1,051	1,198	0	231	967	0
U. Hawaii, Hilo	152	731	796	871	1,157	0	702	455	0
Idaho State U.	153	1,891	710	1,248	1,136	0	671	0	465
Ohio U.	154	294	351	677	1,120	32	1,088	0	0
San Diego State U.	155	1,986	1,433	1,093	1,091	0	223	554	314
Dartmouth C. and Dartmouth Hitchcock Medical Center	156	1,376	1,234	1,203	1,085	0	1,085	0	0
Northwest Indian C.	157	466	1,043	1,033	1,084	301	305	477	1
Syracuse U.	158	1,611	1,616	1,334	1,073	0	1,073	0	0
Central Washington U.	159	1,317	1,650	1,161	1,066	0	1,066	0	0
Montana Technological U.	160	892	788	725	1,056	0	1,056	0	0
Western Washington U.	161	936	1,153	760	1,041	0	613	428	0
U. Massachusetts, Boston	162	3,753	2,573	1,478	984	0	598	386	0
California Polytechnic State U., San Luis Obispo	163	1,257	1,089	963	973	0	0	973	0
Lehigh U.	164	841	1,004	1,258	939	0	939	0	0
C. Charleston	165	1,095	1,064	857	918	200	245	473	0
CUNY, Advanced Science Research Center	166	997	3	56	877	0	113	764	0
Vanderbilt U. and Vanderbilt U. Medical Center	167	1,858	838	966	852	0	852	0	0
U. North Texas, Denton	168	587	428	873	847	0	847	0	0
California State U., Monterey Bay	169	637	785	867	837	0	35	676	126
SUNY, Buffalo State	170	626	819	821	834	0	208	0	626
U. Alabama, Tuscaloosa	171	519	499	1,168	822	0	822	0	0
Savannah State U.	172	591	633	728	815	0	146	527	142
Oklahoma State U., Stillwater	173	940	554	763	801	0	801	0	0

**TABLE 41**  
**Federally financed higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2021 geosciences, atmospheric sciences, and ocean sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
Northwestern U.	174	1,021	1,003	730	782	0	782	0	0
Southern Illinois U., Carbondale	175	382	557	593	772	5	157	0	610
Carleton C.	176	230	1,330	670	759	0	759	0	0
U. Pennsylvania	177	776	1,255	872	749	0	749	0	0
U. Missouri, Columbia	178	854	1,252	924	729	0	729	0	0
Pennsylvania State U., Behrend	179	657	899	104	706	6	21	679	0
California State U., Sacramento	180	737	802	716	700	0	700	0	0
Utah State U.	181	1,514	642	67	690	224	466	0	0
Georgia State U.	182	479	681	575	682	0	682	0	0
U. New Orleans	183	1,708	969	897	680	0	680	0	0
Northern Illinois U.	184	416	309	375	676	0	564	0	112
West Texas A&M U.	184	75	326	62	676	676	0	0	0
California State U., Northridge	186	1,697	1,393	1,514	663	0	315	148	200
U. Nebraska, Lincoln	187	2,305	2,140	1,331	640	0	640	0	0
Florida Atlantic U.	188	335	387	307	638	187	0	0	451
U.S. Naval Academy	189	1,110	1,074	771	613	0	0	613	0
U. Texas Rio Grande Valley	190	926	1,060	745	605	0	14	527	64
South Dakota State U.	191	2,988	1,485	602	604	0	604	0	0
Indiana U.-Purdue U., Indianapolis	192	731	518	679	583	0	583	0	0
Colgate U.	193	430	363	295	580	0	379	0	201
Embry-Riddle Aeronautical U.	194	418	307	807	575	575	0	0	0
U. North Carolina, Charlotte	195	198	422	666	573	0	573	0	0
U. Illinois, Chicago	196	426	381	567	553	0	553	0	0
SUNY, C. of Environmental Science and Forestry	197	641	483	493	551	73	275	115	88
Southern Illinois U., Edwardsville	198	568	562	461	546	0	402	0	144
Occidental C.	199	321	480	630	510	0	69	441	0
Coastal Carolina U.	200	710	862	998	509	462	24	23	0
Montclair State U.	201	510	825	499	508	0	365	129	14
Miami U.	202	761	521	872	496	0	496	0	0

**TABLE 41**  
**Federally financed higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2021 geosciences, atmospheric sciences, and ocean sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
American U.	203	198	215	216	493	0	0	0	493
Case Western Reserve U.	203	765	567	478	493	0	493	0	0
Towson U.	205	526	542	667	481	0	481	0	0
CUNY, York C.	206	ne	85	462	472	256	216	0	0
Roger Williams U.	207	454	300	369	466	0	0	466	0
U. Dayton	208	199	400	352	461	311	150	0	0
Western Michigan U. and Homer Stryker M.D. School of Medicine	209	581	433	346	453	0	453	0	0
Temple U.	210	727	536	410	449	0	449	0	0
Kansas State U.	211	1,653	1,259	627	444	0	444	0	0
Tarleton State U.	212	272	221	428	431	0	431	0	0
California State U., Chico	213	83	110	395	414	0	414	0	0
Middlebury C.	214	241	256	239	413	0	304	0	109
U. New England	215	749	1,080	681	411	0	0	411	0
Baylor U.	216	583	607	496	408	91	184	133	0
SUNY, C. Plattsburgh	217	240	488	391	400	0	7	393	0
Illinois State U.	218	33	263	394	381	0	381	0	0
California State U., Fresno	219	48	10	116	371	0	371	0	0
Carnegie Mellon U.	220	835	791	440	360	277	0	83	0
St. Edward's U.	221	162	807	409	359	300	0	0	59
U. Iowa	222	669	636	673	348	0	338	0	10
Humboldt State U.	223	1,255	376	450	334	243	12	73	6
Rockefeller U.	223	359	272	466	334	0	0	0	334
Grand Valley State U.	225	617	328	287	331	0	0	0	331
U. Washington, Bothell	225	116	310	371	331	327	4	0	0
U. Colorado Denver <sup>e</sup>	227	na	na	na	330	330	0	0	0
Wesleyan U.	228	397	314	531	322	0	322	0	0
Central Michigan U.	229	79	86	177	316	114	76	126	0
Tennessee State U.	230	0	0	297	314	0	314	0	0
Bowdoin C.	231	531	356	493	310	0	13	297	0

**TABLE 41**  
**Federally financed higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2021 geosciences, atmospheric sciences, and ocean sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
William Paterson U.	232	54	211	414	309	0	309	0	0
Heidelberg U.	233	162	159	188	308	0	0	308	0
U. Cincinnati	234	529	339	304	303	0	303	0	0
Kent State U.	235	550	412	439	296	25	237	0	34
Howard U.	236	618	248	225	289	0	0	289	0
Brigham Young U., Provo	237	213	260	122	287	0	287	0	0
Western Kentucky U.	238	401	290	254	284	0	284	0	0
Lewis and Clark C.	239	178	201	164	278	27	251	0	0
Saint Louis U.	239	571	733	774	278	0	278	0	0
Clark U.	241	598	410	306	271	0	145	126	0
U. Puerto Rico, Medical Sciences Campus	242	0	29	136	265	0	265	0	0
Wichita State U.	243	15	9	11	255	0	255	0	0
U. Texas, Arlington	244	445	547	322	254	0	254	0	0
Georgia Southern U.	245	93	207	115	253	29	216	8	0
Hawaii Pacific U.	246	268	288	183	252	0	38	214	0
CUNY, Queens C.	247	328	311	322	251	0	251	0	0
Delaware State U.	248	412	155	215	247	0	4	243	0
DePaul U.	249	5	22	76	246	0	246	0	0
Chapman U.	250	225	193	206	242	0	0	0	242
Duquesne U.	251	0	12	290	241	0	241	0	0
Stockton U.	252	107	493	578	239	15	0	224	0
Marshall U.	253	0	100	201	233	0	0	0	233
Western Carolina U.	253	419	320	255	233	0	2	231	0
SUNY, C. Brockport	255	0	239	261	231	0	231	0	0
U. of St. Thomas (MN)	256	0	0	0	222	0	222	0	0
California State U., Long Beach	257	134	73	492	220	0	220	0	0
Illinois Institute of Technology	258	377	236	356	217	102	115	0	0
U. Richmond	258	28	25	43	217	0	217	0	0
Tufts U.	260	592	120	230	215	0	106	109	0

**TABLE 41**  
**Federally financed higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2021 geosciences, atmospheric sciences, and ocean sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
U. Colorado Anschutz Medical Campus <sup>e</sup>	261	na	na	na	212	212	0	0	0
SUNY, Binghamton U.	262	178	411	196	207	0	207	0	0
Skidmore C.	263	475	743	577	202	0	202	0	0
Virginia Commonwealth U.	264	823	516	280	200	0	0	0	200
U. Minnesota, Duluth	265	979	1,993	1,609	199	0	199	0	0
New Mexico Highlands U.	266	66	ne	189	198	0	198	0	0
Union C., Schenectady	266	550	125	130	198	0	198	0	0
U. Akron	268	147	171	202	194	0	194	0	0
U. Alabama, Birmingham	269	812	702	438	188	188	0	0	0
U. Alaska, Southeast	270	420	254	145	176	0	59	117	0
Air Force Institute of Technology	271	1,534	876	490	175	175	0	0	0
Macalester C.	272	141	310	268	172	97	0	0	75
North Carolina Central U.	273	250	233	264	171	0	171	0	0
U. Louisville	273	187	106	169	171	114	49	8	0
North Dakota State U.	275	198	277	139	164	0	164	0	0
CUNY, Hunter C.	276	265	160	219	162	0	162	0	0
Villanova U.	276	502	405	460	162	0	100	62	0
Alaska Pacific U.	278	117	88	83	158	0	54	24	80
Rowan U.	278	139	308	227	158	0	158	0	0
Barnard C.	280	0	0	45	156	0	152	4	0
U. Tulsa	281	121	39	76	151	0	151	0	0
Long Island U.	282	0	26	15	150	0	150	0	0
Missouri State U.	283	133	33	72	146	2	144	0	0
Appalachian State U.	284	571	266	242	144	1	143	0	0
Colby C.	284	91	122	175	144	0	144	0	0
Providence C.	284	103	166	124	144	0	0	144	0
U. Hawaii, Maui C.	284	ne	ne	ne	144	0	0	144	0
New School	288	325	373	414	143	0	0	0	143
California State U., East Bay	289	ne	ne	63	142	0	142	0	0



**TABLE 41**  
**Federally financed higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2021 geosciences, atmospheric sciences, and ocean sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
U. Minnesota, Morris	290	ne	159	176	140	0	140	0	0
Austin Peay State U.	291	0	0	52	136	0	136	0	0
U. Texas, Dallas	292	145	167	163	128	0	128	0	0
U. Colorado Colorado Springs	293	46	68	150	127	69	58	0	0
James Madison U.	294	510	317	508	125	0	125	0	0
Texas Christian U.	295	167	178	197	121	0	121	0	0
U. Northern Colorado	296	5	72	247	120	0	120	0	0
California State Polytechnic U., Pomona	297	231	202	38	118	0	0	0	118
SUNY, Geneseo	298	153	140	104	115	0	115	0	0
U. Wisconsin-Oshkosh	299	116 i	116 i	115 i	114	0	114	0	0
U. San Francisco	300	276	170	67	113	1	32	0	80
Williams C.	301	146	104	99 i	105 i	0 i	105 i	0 i	0 i
Wright State U.	302	231	161	127	104	0	104	0	0
Central State U.	303	122	163	125	102	0	102	0	0
U. San Diego	304	519	150	152	101	0	0	101	0
Northern Michigan U.	305	62	65	81	100	0	100	0	0
Colorado C.	306	38	58	52	96	0	96	0	0
U. Missouri, Kansas City	306	238	224	151	96	0	96	0	0
Fort Hays State U.	308	ne	316	288	95	0	95	0	0
California State U., Fullerton	309	391	189	145	94	0	58	36	0
U. North Carolina, Asheville	310	352	126	36	93	86	7	0	0
Dillard U.	311	0	0	0	87	0	37	0	50
Monmouth U.	312	ne	91	109	86	0	0	86	0
Sam Houston State U.	313	3	0	0	85	0	85	0	0
U. of the District of Columbia	314	51	84	41	82	0	82	0	0
U. New Haven	315	0	0	104	80	73	0	7	0
Haverford C.	316	106	160	103	79	0	31	48	0
Texas Southern U.	316	0	119	184	79	0	0	0	79
Clarkson U.	318	0	0	21	77	0	47	30	0

**TABLE 41**  
**Federally financed higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2021 geosciences, atmospheric sciences, and ocean sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
Wellesley C.	318	2	154	154	77	17	60	0	0
Wheaton C., Wheaton	320	0	90	116	76	0	76	0	0
Central Connecticut State U.	321	ne	52	85	74	0	74	0	0
Indiana State U.	322	21	137	103	73	0	73	0	0
New York U.	323	164	55	133	71	0	71	0	0
Northeastern Illinois U.	324	150	131	50	68	0	68	0	0
Eastern Michigan U.	325	453	285	18	64	0	42	0	22
Southern Connecticut State U.	326	0	9	1	63	50	13	0	0
Wayne State U.	326	203	154	129	63	0	63	0	0
Kean U.	328	ne	ne	105	61	0	61	0	0
U. Louisiana, Monroe	328	31	307	39	61	61	0	0	0
Lincoln U., Jefferson City	330	0	0	0	60	23	37	0	0
George Washington U.	331	596	213	243	59	0	17	0	42
U. North Georgia	331	20	48	55	59	0	59	0	0
SUNY, Oswego	333	39	42	43	58	5	53	0	0
Salisbury U.	334	78	145	91	57	0	0	0	57
U. Wisconsin-Stevens Point	334	2 i	3 i	3	57	0	57	0	0
Northland C.	336	ne	ne	ne	56 i	0 i	48 i	0 i	8 i
Seattle U.	337	4	37	42	54	0	0	54	0
California State U., San Bernardino	338	38	110	86	51	0	51	0	0
Hofstra U.	339	8	11	3	50	0	50	0	0
U. Wisconsin-Green Bay	340	33 i	49 i	53 i	48 i	0 i	48 i	0 i	0 i
Eastern Washington U.	341	30	30	58	46	0	46	0	0
U. of the Pacific	342	0	0	0	43	0	43	0	0
Pomona C.	343	96	100	103	42	0	42	0	0
Amherst C.	344	0	0	0	41	0	41	0	0
California State U., Bakersfield	345	208	147	118	40	0	40	0	0
Murray State U.	346	30	17	19	35	0	35	0	0
U. Houston-Downtown	346	0	0	82	35	0	0	0	35

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**Federally financed higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2021 geosciences, atmospheric sciences, and ocean sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
U.S. Air Force Academy	348	0	0	0	34	0	34	0	0
Furman U.	349	99	16	7	33	0	33	0	0
Andrews U.	350	ne	54	35	32	0	32	0	0
Dakota State U.	350	0	0	0	32	0	32	0	0
Indiana U. Pennsylvania	350	113	481	107	32	0	28	0	4
Troy U.	353	ne	ne	47	31	0	0	31	0
U. Denver	353	101	154	145	31	0	31	0	0
U. of Mary Washington	355	18	16	38	29	0	29	0	0
Suffolk U.	356	ne	ne	28	28	0	0	28	0
Bates C.	357	73	83	91	26	0	26	0	0
Claflin U.	357	138	259	37	26	26	0	0	0
Oberlin C.	359	212	144	51	25	0	25	0	0
Fort Lewis C.	360	ne	10	34	24	0	24	0	0
Loyola Marymount U.	360	0	25	32	24	0	24	0	0
Oregon Institute of Technology	360	0	75 i	56	24 i	0 i	0 i	0 i	24 i
California State U., Los Angeles	363	0	0	0	23	0	23	0	0
Mercyhurst U.	363	ne	21 i	22 i	23 i	0 i	18 i	0 i	5 i
Albany State U.	365	0	0	4	22	0	0	0	22
C. Wooster	365	31	12	21	22 i	0 i	22 i	0 i	0 i
Pennsylvania State U., Harrisburg	365	0	5	3	22	11	11	0	0
Tennessee Technological U.	368	20	43	22	21	0	21	0	0
Ithaca C.	369	ne	ne	4	20	0	0	20	0
Hobart and William Smith Colleges	370	ne	83	127	19	19	0	0	0
Fort Valley State U.	371	0	0	0	18	0	18	0	0
Hope C.	371	0	0	0	18	0	18	0	0
Claremont McKenna C.	373	93	173	29	17	0	0	0	17
U. Puerto Rico, Humacao	373	0	0	0	17	0	0	0	17
U. Nebraska, Omaha	375	0	0	0	16	0	16	0	0
Trinity U.	376	27	28	3	14	0	14	0	0

**TABLE 41**  
**Federally financed higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2021 geosciences, atmospheric sciences, and ocean sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
CUNY, Brooklyn C.	377	118	17	i 18	13	0	13	0	0
St. Olaf C.	377	0	0	0	13	3	0	10	0
U. North Florida	379	0	0	0	11	0	0	0	11
U. Wisconsin-Superior	379	32	25	30	11	0	11	0	0
CUNY, Baruch C.	381	135	0	137	8	0	0	0	8
Sacred Heart U.	381	ne	ne	ne	8	8	0	0	0
Virginia State U.	381	50	157	0	8	8	0	0	0
Morehead State U.	384	17	7	7	7	0	7	0	0
U. Southern Maine	384	0	0	0	7	0	0	7	0
Minnesota State U., Mankato	386	37	0	0	6	0	6	0	0
Smith C.	387	26	38	0	5	0	5	0	0
U. Wisconsin-Eau Claire	387	1	5	4	5	0	5	0	0
Midwestern U.	389	0	0	0	4	0	0	0	4
Eastern Kentucky U.	390	0	0	1	2	0	0	0	2
Kentucky State U.	390	186	0	0	2	0	2	0	0
U.S. Military Academy	390	245	111	98	2	0	2	0	0
Alfred U.	393	0	0	1	1	0	0	0	1
Des Moines U.	393	140	77	1	1	i 0	1	i 0	0
Gallaudet U.	393	17	33	4	1	0	0	1	0
Indiana U., South Bend	393	0	ne	ne	1	0	0	0	1
U. Wisconsin-La Crosse	393	0	4	6	1	0	1	0	0
All other surveyed institutions	-	55,674	10,339	5,646	0	0	0	0	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

nec = not elsewhere classified.

<sup>a</sup> Johns Hopkins University includes the Applied Physics Laboratory, with \$61,402 thousand in federally financed R&D expenditures in geosciences, atmospheric sciences, and ocean sciences in FY 2021.

<sup>b</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

<sup>c</sup> The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

<sup>d</sup> The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

<sup>e</sup> The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

**Note(s):**

Institutions reporting zero expenditures in ranked total for FY 2021 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 42

**Higher education R&D expenditures in the life sciences, ranked by all FY 2021 life sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
All institutions	-	45,606,786	48,228,599	49,622,337	52,364,596	3,548,896	16,557,201	29,884,728	934,765	1,439,006
U. California, San Francisco	1	1,532,722	1,529,156	1,581,411	1,639,862	0	2,520	1,637,342	0	0
U. Pennsylvania	2	1,070,969	1,125,634	1,185,719	1,243,966	1,003	835,864	329,713	0	77,386
Johns Hopkins U. <sup>a</sup>	3	991,451 i	1,053,401 i	1,047,668 i	1,069,865 i	0 i	350,122 i	719,743 i	0 i	0 i
U. Texas M. D. Anderson Cancer Center	4	867,391	902,580	981,164	1,056,727	21,748	320,834	714,145	0	0
U. California, Los Angeles	5	917,899	925,447	989,602	1,053,540	0	33,765	1,019,775	0	0
Duke U.	6	971,355	1,018,199	990,897	1,040,786	0	291,851	721,730	10,570	16,635
U. Washington, Seattle	7	954,565	954,062	963,264	1,013,261	277	286,353	685,723	26,061	14,847
Yale U.	8	832,360	912,802	944,439	1,012,626	0	222,114	779,001	11,340	171
U. Pittsburgh, Pittsburgh	9	863,086	935,756	954,315	983,251	501	304,345	678,383	0	22
U. Michigan, Ann Arbor	10	873,031	955,653	967,660	931,174	2,142	262,263	604,587	17,964	44,218
U. North Carolina, Chapel Hill	11	826,287	846,630	868,276	925,380	0	191,773	733,607	0	0
Stanford U.	12	780,090	837,068	836,401	905,150	0	242,245	622,630	1,074	39,201
Washington U., Saint Louis	13	731,083	796,337	824,978	887,653	0	389,457	498,196	0	0
Ohio State U.	14	506,398	550,461	590,076	876,239	68,969	92,910	700,303	9,035	5,022
U. Wisconsin-Madison	15	740,883	814,119	839,302	861,558	114,940	273,356	467,332	997	4,933
Cornell U.	16	737,271	789,230	822,419	833,824	106,374	317,690	384,742	17,553	7,465
U. California, San Diego	17	782,882	819,167	828,401	827,370	0	63,846	762,778	593	153
Icahn School of Medicine at Mount Sinai	18	640,141	722,241	747,014	820,260	0	391,642	428,618	0	0
Vanderbilt U. and Vanderbilt U. Medical Center	19	560,124	581,939	625,549	806,323	0	206,202	599,247	13	861
Columbia U. in the City of New York	20	673,535	727,779	744,239	797,089	0	226,903	563,787	4,370	2,029
Emory U.	21	650,154	727,296	732,893	789,831	0	203,597	571,627	0	14,607
New York U.	22	609,745	630,246	643,638	771,663	0	297,690	469,714	0	4,259
U. Minnesota, Twin Cities	23	635,157	684,938	722,074	760,975	71,646	118,493	514,691	51,022	5,123
Baylor C. of Medicine	24	623,396	651,920	685,641	716,976	0	345,012	371,964	0	0
Harvard U.	25	656,790	704,460	684,127	714,069	26	539,289	133,571	8,023	33,160
U. Florida	26	656,347	689,605	688,091	706,987	210,062	134,050	344,705	18,170	0
Northwestern U.	27	555,160	604,875	619,270	659,195	0	166,594	474,272	0	18,329
U. Maryland <sup>b</sup>	28	na	601,632	594,114	633,517	51,847	183,621	390,634	2,293	5,122
U. Texas Southwestern Medical Center	29	474,260	496,697	595,939	632,134	0	219,742	408,377	0	4,015
U. Southern California	30	579,028	568,194	580,982	598,925	0	117,462	468,905	0	12,558
U. California, Davis	31	588,300	593,628	597,962	590,027	143,311	199,310	247,406	0	0

TABLE 42

**Higher education R&D expenditures in the life sciences, ranked by all FY 2021 life sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
U. Alabama, Birmingham	32	511,345	533,536	542,308	571,525	0	132,380	439,145	0	0
U. Colorado Anschutz Medical Campus <sup>c</sup>	33	na	na	na	559,348	299	8,948	550,101	0	0
Indiana U., Bloomington	34	401,303	470,583	502,210	501,125	0	122,903	369,296	0	8,926
Texas A&M U., College Station and Health Science Center	35	342,961	351,403	502,372	487,219	180,671	97,519	188,730	14,989	5,310
Scripps Research Institute	36	396,839	427,734	444,964	485,435	0	485,435	0	0	0
Rutgers, State U. New Jersey, New Brunswick	37	478,476	447,552	518,906	483,265	64,885	90,875	319,883	23	7,599
U. Cincinnati	38	390,071	437,494	440,721	456,847	0	60,204	380,364	0	16,279
U. Arizona	39	399,790	426,393	437,147	447,584	50,582	221,774	162,748	12,480	0
Boston U.	40	272,397	338,089	373,079	445,535	0	168,310	276,870	0	355
Oregon Health and Science U.	41	359,721	403,495	433,917	439,212	0	21,651	278,801	838	137,922
U. Utah	42	391,825	343,744	402,001	420,965	0	44,662	369,765	363	6,175
U. Iowa	43	386,776	385,909	414,459	415,734	0	134,116	278,735	0	2,883
U. Virginia, Charlottesville	44	352,154	385,793	420,679	402,376	0	229,238	172,524	614	0
Uniformed Services U. of the Health Sciences	45	298,517	406,726	316,838	366,610	0	7,192	359,418	0	0
Case Western Reserve U.	46	371,604	377,671	384,857	360,294	0	86,328	252,185	0	21,781
U. Massachusetts, Medical School	47	274,211	281,507	279,096	347,337	0	145,417	100,911	0	101,009
Rockefeller U.	48	334,048	332,899	337,377	339,729	0	325,035	14,694	0	0
U. Chicago	49	274,000	299,549	302,820	336,114	0	82,092	254,022	0	0
U. Illinois, Chicago	50	269,169	289,366	314,296	324,053	0	77,533	237,347	9,173	0
U. Kentucky	51	294,776	314,547	322,077	323,030	63,522	181,729	77,779	0	0
Michigan State U.	52	340,065	353,934	319,883	317,235	112,272	117,739	57,339	15,243	14,642
U. California, Irvine	53	239,122	266,485	289,422	315,900	0	125,642	190,252	0	6
U. Georgia	54	262,237	294,353	302,667	309,153	113,627	156,208	35,774	490	3,054
U. Texas Health Science Center, Houston	55	258,411	271,525	273,862	308,823	0	54,224	138,943	0	115,656
Albert Einstein C. of Medicine	56	297,328	298,824	288,654	301,715	0	0	301,715	0	0
U. Miami	57	274,934	284,045	302,160	297,764	0	75,792	215,596	911	5,465
Pennsylvania State U., University Park and Hershey Medical Center	58	280,091	266,143	291,299	291,733	79,424	112,135	91,303	8,871	0
Colorado State U., Fort Collins	59	161,006	211,774	231,734	288,731	50,785	67,310	28,615	136,967	5,054
Medical U. South Carolina	60	282,253	295,600	272,590	277,761	0	64,300	93,409	0	120,052
U. Rochester	61	244,380	248,086	259,224	271,630	0	56,944	214,686	0	0

TABLE 42

**Higher education R&D expenditures in the life sciences, ranked by all FY 2021 life sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Medical C. Wisconsin	62	222,767	243,500	255,783	269,290	0	83,895	185,395	0	0
U. California, Berkeley	63	234,055	239,459	258,228	264,394	5,134	129,502	58,481	71,277	0
U. Illinois, Urbana-Champaign	64	206,379	222,994	241,661	258,253	70,763	91,434	4,630	91,426	0
SUNY, U. Buffalo	65	244,106	249,349	241,467	254,314	0	95,200	154,302	0	4,812
Wake Forest U.	66	188,702	230,592	236,154	253,797	0	3,260	250,518	19	0
U. New Mexico	67	161,209	148,618	148,158	243,730	14	27,380	213,149	2,622	565
U. Missouri, Columbia	68	198,676	210,550	220,890	237,728	86,679	51,630	79,594	13,304	6,521
North Carolina State U.	69	231,243	244,235	240,399	237,289	108,416	119,614	0	0	9,259
Purdue U., West Lafayette	70	211,371	237,317	243,953	237,182	122,841	25,488	88,853	0	0
Virginia Commonwealth U.	71	181,220	185,744	206,550	233,486	0	72,971	140,319	0	20,196
U. Kansas	72	202,119	212,241	226,786	230,059	0	46,912	168,897	1,779	12,471
Temple U.	73	206,129	218,527	216,388	223,136	47	44,630	94,116	0	84,343
U. Texas Health Science Center, San Antonio	74	179,219	188,483	202,572	219,734	0	74,729	126,181	0	18,824
Washington State U.	75	175,704	193,878	196,649	211,107	110,067	34,771	59,282	4,189	2,798
Virginia Polytechnic Institute and State U.	76	198,326	198,424	199,798	207,204	80,513	46,515	51,942	26,106	2,128
U. South Florida <sup>d</sup>	77	207,171	200,585	164,666	203,414	0	93,020	109,397	303	694
U. Nebraska, Medical Center	78	177,245	194,455	202,406	200,974	0	99,830	101,144	0	0
Thomas Jefferson U.	79	148,573	170,458	171,207	200,309	0	83,083	117,226	0	0
U. Arkansas for Medical Sciences	80	139,187	153,135	174,549	194,709	0	64,136	122,965	0	7,608
U. Texas Medical Branch	81	179,303	173,776	179,403	184,500	0	139,580	44,920	0	0
Georgetown U.	82	142,875	155,013	155,197	183,629	0	12,828	167,962	0	2,839
George Washington U.	83	173,664	175,830	179,803	180,965	0	58,491	122,447	0	27
Wayne State U.	84	179,692	186,531	182,757	175,847	0	26,291	146,425	0	3,131
U. Connecticut	85	155,958	165,087	157,618	175,232	10,683	79,715	74,770	3,616	6,448
U. Oklahoma, Norman and Health Science Center	86	140,602	148,621	164,967	165,745	0	48,670	116,506	0	569
Tulane U.	87	151,823	152,554	161,642	164,874	0	36,099	46,935	159	81,681
Dartmouth C. and Dartmouth Hitchcock Medical Center	88	179,025	176,231	170,704	163,702	0	83,974	78,745	691	292
Louisiana State U., Baton Rouge	89	154,348	160,443	155,187	158,608	88,218	60,515	566	9,309	0
U. Louisville	90	144,645	141,409	158,677	157,735	8	66,095	87,611	79	3,942
U. Nebraska, Lincoln	91	156,100	161,097	161,499	153,809	94,550	30,317	15,853	13,089	0
Oregon State U.	92	135,466	136,589	143,505	151,779	76,656	44,339	8,767	21,557	460



TABLE 42

**Higher education R&D expenditures in the life sciences, ranked by all FY 2021 life sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Tufts U.	93	71,546	114,635	136,826	149,664	1,450	91,403	48,230	0	8,581
U. Texas, Austin	94	119,249	117,716	130,377	148,471	69	72,413	69,548	3,192	3,249
U. Vermont	95	107,706	111,873	142,081	142,622	21,096	51,579	63,210	6,737	0
Iowa State U.	96	151,654	149,764	123,853	142,283	51,837	42,898	19,767	0	27,781
Brown U.	97	122,607	130,419	134,751	139,126	0	57,160	46,024	0	35,942
SUNY, Stony Brook U.	98	106,832	117,953	121,070	127,257	0	64,217	63,040	0	0
Mississippi State U.	99	112,967	118,479	119,753	127,096	98,866	7,744	1,887	15,945	2,654
West Virginia U.	100	103,696	104,435	108,264	124,894	13,321	30,824	69,644	8,946	2,159
U. Hawaii, Manoa	101	129,544	130,373	123,649	123,962	14,116	52,760	45,709	1,469	9,908
Kansas State U.	102	134,291	133,246	127,024	119,328	92,231	26,459	638	0	0
Massachusetts Institute of Technology	103	138,075	143,017	126,648	118,283	79	60,795	21,012	378	36,019
Augusta U.	104	98,925	96,123	103,554	115,862	0	41,967	69,850	0	4,045
Cold Spring Harbor Laboratory	105	115,870	126,773	115,051	114,885	2,272	112,613	0	0	0
Arizona State U.	106	125,014	101,129	103,558	111,790	0	73,598	37,201	550	441
Auburn U., Auburn	107	101,567	104,935	110,768	111,491	70,134	14,099	15,343	986	10,929
U. Tennessee, Health Science Center	108	78,204	95,852	98,345	107,620	0	29,655	74,246	0	3,719
North Dakota State U.	109	100,736	104,204	101,693	106,163	82,590	6,187	7,484	9,902	0
Rush U.	110	86,277	93,701	92,494	104,999	0	12,283	92,716	0	0
California Institute of Technology	111	80,318	87,505	89,626	100,754	0	100,578	128	0	48
U. California, Riverside	112	85,128	91,835	95,431	98,539	22,645	60,318	15,576	0	0
Drexel U.	113	96,074	93,762	89,027	96,668	0	39,937	53,152	3,579	0
Princeton U.	114	86,341	95,882	91,903	95,938	0	87,346	0	8,592	0
U. Tennessee, Knoxville <sup>e</sup>	115	23,092	24,065	84,619	86,080	41,632	26,252	10,025	8,171	0
U. South Carolina, Columbia	116	77,248	70,689	98,789	84,069	0	14,237	69,832	0	0
U. Mississippi	117	91,251	103,882	86,130	82,916	191	22,359	56,848	0	3,518
U. Louisiana, Lafayette	118	62,543	73,146	87,621	80,528	240	60,760	18,818	704	6
U. Arkansas, Fayetteville	119	88,589	89,593	77,569	79,509	67,267	6,294	3,825	2,123	0
U. Nevada, Reno	120	61,782	64,307	71,378	78,218	6,648	43,521	20,341	6,640	1,068
Oklahoma State U., Stillwater	121	80,716	76,701	75,506	77,720	36,223	25,945	5,881	9,652	19
Montana State U., Bozeman	122	65,459	72,765	71,440	74,897	43,975	18,017	12,186	199	520
U. Idaho	123	68,744	71,656	73,933	73,435	34,593	25,070	97	13,612	63
U. Montana, Missoula	124	54,418	61,959	66,817	72,501	522	21,407	30,176	20,396	0

TABLE 42

**Higher education R&D expenditures in the life sciences, ranked by all FY 2021 life sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
U. Massachusetts, Amherst	125	66,052	67,652	64,246	69,519	17,175	25,498	9,953	7,248	9,645
Clemson U.	126	57,408	62,391	71,776	66,524	21,938	24,231	7,534	7	12,814
Saint Louis U.	127	50,538	54,582	58,836	65,928	0	28,234	37,487	207	0
Van Andel Research Institute	128	55,171	61,738	58,982	65,789	0	65,789	0	0	0
Georgia State U.	129	76,083	70,211	66,831	65,536	638	52,370	10,926	0	1,602
Florida State U.	130	54,515	61,515	64,315	61,377	175	21,063	35,745	3,310	1,084
U. Delaware	131	55,454	60,535	66,097	60,823	30,290	5,050	25,483	0	0
U. Oregon	132	36,242	35,644	35,936	56,791	0	37,907	817	531	17,536
Utah State U.	133	59,473	61,698	56,017	56,043	31,043	7,716	1,966	15,318	0
Texas Tech U.	134	51,017	52,335	49,230	55,930	30,966	14,152	5,392	5,420	0
Florida International U.	135	46,906	51,676	55,877	55,462	5	37,940	15,751	1,766	0
U. Colorado Boulder	136	41,637	51,990	52,074	53,211	2,077	42,368	4,708	1,446	2,612
U. New Hampshire	137	49,115	50,431	52,822	52,907	16,303	10,279	18,883	6,712	730
SUNY, U. Albany	138	93,050	101,768	60,025	52,135	0	29,137	22,998	0	0
U. North Texas, Health Science Center	139	49,029	49,099	41,900	50,692	0	14,592	36,100	0	0
New Mexico State U.	140	37,074	40,821	43,340	48,808	32,281	15,045	492	10	980
George Mason U.	141	17,982	16,438	33,163	47,800	168	37,805	8,558	1,269	0
Cleveland State U.	142	52,257	47,567	46,618	45,321	0	41,447	3,312	0	562
SUNY, Upstate Medical U.	143	36,674	38,091	41,557	44,870	0	16,959	27,911	0	0
Louisiana State U., Health Sciences Center, New Orleans	144	38,989	40,914	43,419	44,370	0	20,165	23,148	0	1,057
U. Puerto Rico, Medical Sciences Campus	145	41,216	44,985	37,081	43,846	0	0	43,846	0	0
U. Wyoming	146	41,272	41,934	47,073	43,538	8,607	15,284	3,903	7,606	8,138
U. California, Office of the President	147	38,811	53,460	46,725	42,520	1,957	0	40,336	214	13
Northern Arizona U.	148	31,974	36,245	38,862	41,082	2,169	25,623	5,522	6,457	1,311
Texas Tech U., Health Sciences Center	149	36,784	42,959	43,102	40,567	0	20,394	20,173	0	0
U. Maine	150	36,865	38,713	39,357	38,598	17,566	9,846	466	10,720	0
Loyola U., Chicago	151	34,087	33,699	35,073	38,592	0	16,741	21,272	579	0
South Dakota State U.	152	49,014	53,751	49,659	38,411	30,114	2,785	2,361	2,353	798
U. Alaska, Fairbanks	153	30,257	26,416	29,409	37,477	9,228	24,022	362	3,859	6
Southern Illinois U., Carbondale	154	38,104	32,432	33,480	37,448	13,088	6,268	17,958	0	134
SUNY, Downstate Health Sciences U.	155	34,661	36,015	33,204	34,459	0	33,935	524	0	0

TABLE 42

**Higher education R&D expenditures in the life sciences, ranked by all FY 2021 life sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
U. Houston	156	33,476	39,727	34,394	34,322	209	14,588	19,265	244	16
Georgia Institute of Technology	157	35,690	33,854	43,699	32,997	4,051	21,357	6,213	0	1,376
Morehouse School of Medicine	158	33,215	31,289	29,813	32,637	0	0	32,637	0	0
Northeastern U.	159	31,203	31,181	32,626	32,513	0	13,919	10,371	0	8,223
U. Nevada, Las Vegas	160	22,193	31,434	34,733	32,306	212	12,969	18,321	234	570
San Diego State U.	161	28,003	28,629	27,880	31,479	0	15,520	15,949	10	0
U. South Alabama	162	31,779	40,597	36,664	31,362	0	232	23,884	14	7,232
U. North Dakota	163	30,647	28,781	31,526	31,330	0	17,556	13,774	0	0
U. Central Florida	164	26,706	34,043	29,255	30,876	13	15,562	15,294	1	6
Howard U.	165	26,083	24,940	25,750	30,787	0	6,350	21,927	0	2,510
U. California, Santa Barbara	166	37,682	34,842	30,838	29,848	0	22,132	0	7,716	0
U. Notre Dame	167	27,327	27,517	27,750	29,599	222	29,214	163	0	0
U. Rhode Island	168	24,101	24,563	27,699	28,984	4,209	17,614	3,849	2	3,310
East Carolina U.	169	26,176	35,936	33,206	28,703	164	10,397	18,142	0	0
U. Texas Rio Grande Valley	170	15,776	25,619	28,351	28,556	1,404	3,447	19,785	30	3,890
U. California, Santa Cruz	171	25,002	26,486	27,565	28,302	3,252	25,050	0	0	0
Brandeis U.	172	24,400	22,063	28,345	27,969	0	20,813	7,156	0	0
U. Texas Health Science Center, Tyler	173	17,949	19,606	21,265	27,928	0	27,928	0	0	0
Florida Atlantic U.	174	23,880	25,420	28,725	27,748	0	18,879	8,431	0	438
U. Texas, Dallas	175	31,871	35,971	35,986	27,495	0	5,280	22,215	0	0
U. Texas, San Antonio	176	16,720	22,455	25,911	26,419	0	23,479	1,961	0	979
U. Toledo	177	23,752	27,889	27,748	25,012	35	6,944	17,417	0	616
Louisiana State U., Health Sciences Center, Shreveport	178	24,463	26,262	25,321	24,600	0	10,898	12,906	0	796
SUNY, C. of Environmental Science and Forestry	179	23,433	26,495	26,083	23,850	2,816	6,857	0	13,700	477
Florida A&M U.	180	18,634	21,837	21,450	23,507	9,700	29	10,567	205	3,006
U. Texas, El Paso	181	27,452	30,643	28,552	23,452	0	16,281	5,638	116	1,417
Indiana U.-Purdue U., Indianapolis	182	19,393	20,263	21,874	22,890	0	7,420	14,909	0	561
Albany Medical C.	183	21,187	23,028	23,510	22,443	0	16,121	6,322	0	0
New Jersey Institute of Technology	184	27,571	27,910	20,121	22,393	0	4,038	18,355	0	0
Ponce Health Sciences U.	185	7,857	11,390	13,566	22,009	0	0	22,009	0	0
Tennessee State U.	186	13,330	11,924	20,557	21,260	14,654	2,551	664	84	3,307

TABLE 42

**Higher education R&D expenditures in the life sciences, ranked by all FY 2021 life sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
North Carolina Agricultural and Technical State U.	187	17,349	16,756	16,663	20,086	14,708	1,491	989	2,898	0
Eastern Virginia Medical School	188	30,010	27,064	20,870	19,415	0	9,234	10,181	0	0
U. Texas, Arlington	189	12,100	18,118	18,430	19,246	0	8,816	9,984	446	0
U. Minnesota, Duluth	190	19,392	19,286	19,580	19,119	0	1,279	0	17,840	0
New York Medical C.	191	8,141	19,398	20,137	18,872	0	7,406	7,563	0	3,903
Marshall U.	192	16,410	15,738	16,302	18,296	0	4,893	13,300	0	103
U. Missouri, Kansas City	193	13,616	16,974	20,183	17,966	0	5,265	12,701	0	0
Creighton U.	194	14,925	17,527	14,845	17,512	0	7,059	10,453	0	0
Ohio U.	195	17,098	15,739	15,375	16,838	0	8,765	7,371	0	702
Texas A&M U.-Kingsville	196	14,907	16,431	16,722	16,283	14,886	1,328	0	69	0
U. South Dakota	197	18,390	18,568	17,172	15,920	0	13,982	1,576	221	141
Meharry Medical C.	198	16,980	18,286	13,870	15,840	0	15,840	0	0	0
Rice U.	199	14,193	13,966	16,008	15,766	0	15,766	0	0	0
Old Dominion U.	200	14,020	14,668	14,463	15,041	0	8,798	5,972	271	0
Central Michigan U.	201	8,240	8,603	9,145	14,879	9	3,225	10,781	864	0
U. Alabama, Tuscaloosa	202	7,297	8,452	8,985	14,565	0	5,585	8,980	0	0
Carnegie Mellon U.	203	12,376	15,366	14,696	14,273	256	12,858	895	0	264
Delaware State U.	204	11,406	13,791	14,368	14,196	2,426	8,804	2,245	721	0
Wichita State U.	204	1,918	2,850	2,980	14,196	0	2,705	11,491	0	0
CUNY, Graduate School of Public Health and Health Policy	206	7,290	7,882	10,899	14,025	0	492	13,481	0	52
East Tennessee State U.	207	9,373	10,721	10,103	13,835	0	8,912	4,923	0	0
Northeast Ohio Medical U.	208	17,846	17,625	15,579	13,823	0	8,853	4,451	0	519
Portland State U.	209	13,266	15,844	13,547	13,784	16	9,159	1,184	3,393	32
U. North Texas, Denton	210	10,703	12,644	12,745	13,582	2,085	7,908	3,360	52	177
Rosalind Franklin U. of Medicine and Science	211	16,685	16,011	14,516	13,478	0	11,434	1,893	0	151
Charles R. Drew U. of Medicine and Science	212	11,490	13,739	13,682	13,228	0	0	13,228	0	0
Loma Linda U.	213	18,715	16,874	15,033	13,191	0	6,302	6,889	0	0
San Francisco State U.	214	11,292	12,886	12,603	13,143	0	11,694	205	1,017	227
Boise State U.	215	8,838	9,858	10,616	12,908	603	9,570	1,723	1,005	7
Nova Southeastern U.	216	13,414	14,236	13,298	12,827	0	0	12,827	0	0

TABLE 42

**Higher education R&D expenditures in the life sciences, ranked by all FY 2021 life sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
U. Massachusetts, Lowell	217	9,600	8,730	12,056	12,821	0	5,652	6,255	264	650
SUNY, Binghamton U.	218	14,340	12,165	12,877	12,788	0	5,382	7,345	50	11
U. Nebraska, central administration	219	8,962	12,205	13,089	12,423	823	9,291	2,309	0	0
Marquette U.	220	10,388	13,155	11,696	12,236	88	5,143	5,545	0	1,460
Rutgers, State U. New Jersey, Newark	221	9,789	10,800	13,014	11,845	0	9,197	2,648	0	0
U. Guam	222	8,303	8,964	9,824	11,783	3,237	411	2,741	5,394	0
Texas State U.	223	10,089	11,304	12,417	11,708	544	10,644	0	0	520
Baylor U.	224	5,839	5,641	7,456	11,299	323	7,708	2,782	421	65
U. Southern Mississippi	225	10,079	10,316	11,248	11,218	0	8,983	2,235	0	0
Wright State U.	226	15,403	16,448	13,515	11,213	0	6,556	4,651	0	6
Midwestern U.	227	10,173	10,343	10,479	10,957	22	6,633	4,302	0	0
Syracuse U.	228	10,721	12,095	10,724	10,916	0	7,028	3,098	790	0
Rowan U.	229	7,700	11,107	11,115	10,849	0	3,796	6,962	0	91
Texas Tech U., Health Sciences Center, El Paso	230	12,145	11,649	10,294	10,555	0	3,288	7,267	0	0
CUNY, Queens C.	231	10,167	10,992	11,236	10,421	0	1,599	8,822	0	0
U. Maryland, Baltimore County	232	4,888	11,834	11,478	10,033	803	8,953	22	64	191
U. California, Merced	233	7,725	10,943	9,333	9,742	201	5,096	3,956	0	489
Miami U.	234	8,597	11,143	12,044	9,733	26	3,528	5,813	0	366
Brigham Young U., Provo	235	10,262	9,121	9,218	9,660	3,186	5,012	1,349	0	113
U. Memphis	236	11,041	10,521	10,395	9,537	179	3,805	5,201	4	348
Chapman U.	237	5,505	7,139	7,307	9,497	409	4,588	4,337	5	158
Boston C.	238	12,494	13,514	9,824	9,313	0	7,705	1,608	0	0
CUNY, City C.	239	9,336	8,010	7,167	9,192	30	6,634	2,112	0	416
U. Wisconsin-Milwaukee	240	7,828	8,637	10,279	9,109	0	3,765	5,344	0	0
Illinois Institute of Technology	241	11,310	11,618	9,993	9,053	604	6,978	1,465	0	6
Kent State U.	242	5,611	8,388	8,335	9,034	15	6,047	2,924	46	2
U. North Carolina, Greensboro	243	6,221	8,554	7,582	8,934	0	5,376	3,206	0	352
U. Maryland Center for Environmental Science	244	9,772	10,614	9,194	8,729	971	1,035	0	6,547	176
Mercer U.	245	8,058	8,298	8,624	8,627	0	250	5,592	0	2,785
U. Massachusetts, Boston	246	8,722	9,692	8,950	8,612	6	4,438	3,061	1,107	0
Kentucky State U.	247	8,606	8,139	7,806	8,546	8,546	0	0	0	0
U. Alaska, Anchorage	248	7,822	8,863	6,857	8,381	0	6,250	830	878	423

TABLE 42

**Higher education R&D expenditures in the life sciences, ranked by all FY 2021 life sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Prairie View A&M U.	249	7,755	8,105	8,280	8,187	7,730	353	28	76	0
Tuskegee U.	250	7,564	8,427	8,145	8,136	5,873	2,263	0	0	0
Central State U.	251	2,816	2,923	5,451	8,134	7,645	164	0	206	119
Oakland U.	252	5,376	7,041	5,653	7,887	0	3,703	1,402	0	2,782
CUNY, Hunter C.	253	6,221	7,408	8,957	7,852	0	7,167	685	0	0
Georgia Southern U.	254	2,881	2,331	1,664	7,662	81	2,442	4,105	386	648
Tarleton State U.	255	6,262	6,594	6,429	7,521	6,338	415	482	269	17
Lincoln U., Jefferson City	256	3,709	4,089	5,404	7,345	6,283	297	107	551	107
Southern Illinois U., Edwardsville	257	8,931	10,357	8,190	7,333	345	2,023	4,878	71	16
U. Nebraska, Omaha	258	4,641	4,020	5,892	7,208	52	1,034	6,071	19	32
Virginia State U.	259	6,820	6,886	6,123	7,191	6,918	83	190	0	0
U. North Carolina, Wilmington	260	6,991	7,782	7,090	7,179	584	4,712	533	1,350	0
Long Island U.	261	1,648	4,561	6,526	7,162	0	734	6,428	0	0
Oklahoma State U., Center for Health Sciences	262	2,497	4,815	7,616	6,928	0	531	6,397	0	0
Rensselaer Polytechnic Institute	263	5,431	5,384	6,102	6,913	0	6,913	0	0	0
U. Arkansas, Pine Bluff	264	7,033	7,878	7,415	6,852	6,740	0	0	0	112
Alcorn State U.	265	8,877	8,664	7,918	6,826	6,532	0	294	0	0
Edward Via C. of Osteopathic Medicine	266	7,601	7,225	7,475	6,629	0	0	6,629	0	0
Clark Atlanta U.	267	6,172	6,360	6,017	6,614	0	6,614	0	0	0
California Polytechnic State U., San Luis Obispo	268	6,326	8,979	7,929	6,526	2,514	707	2,546	759	0
Arkansas State U., Jonesboro	269	6,184	6,659	6,636	6,436	1,343	5,057	36	0	0
West Virginia State U.	269	5,748	5,424	5,199	6,436	5,801	0	24	611	0
West Texas A&M U.	271	2,782	2,915	3,570	6,240	6,065	10	0	164	1
Southern U. and A&M C., Agricultural Research and Extension Center	272	5,296	5,448	4,475	6,164	4,822	295	765	282	0
Philadelphia C. of Osteopathic Medicine	273	3,059	3,162	3,360	6,131	0	3,294	2,837	0	0
U. Missouri, Saint Louis	274	4,163	6,824	7,254	6,118	0	1,869	4,141	108	0
North Carolina Central U.	275	6,916	8,401	7,233	6,109	0	6,036	73	0	0
Duquesne U.	276	10,603	9,595	9,914	6,085	0	1,239	4,846	0	0
Langston U.	277	10,417	10,287	13,843	6,062	4,333	510	1,219	0	0
U. of the Virgin Islands	278	10,251	9,712	7,103	6,045	3,251	1,913	587	239	55

TABLE 42

**Higher education R&D expenditures in the life sciences, ranked by all FY 2021 life sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Western Michigan U. and Homer Stryker M.D. School of Medicine	279	5,854	5,488	6,999	5,982	0	5,315	663	4	0
Roseman U. of Health Sciences	280	3,973	4,176 i	4,380	5,893	0	0	5,893	0	0
Morgan State U.	281	4,027	4,197	5,061	5,810	416	2,121	3,273	0	0
Western U. of Health Sciences	282	4,063	3,936	4,866	5,598	597	4,966	35	0	0
Texas A&M U.-Corpus Christi	283	4,650	5,669	6,975	5,422	282	4,643	162	159	176
Alabama A&M U.	284	9,946 i	7,546 i	5,142 i	5,357 i	504 i	1,556 i	3,156 i	141 i	0 i
U. Denver	285	3,838	4,388	4,889	5,347	0	5,277	0	70	0
U. New England	286	5,530	5,864	5,904	5,340	0	3,916	1,366	58	0
U. of Health Sciences and Pharmacy in St. Louis	287	ne	ne	4,835	5,313	0	0	5,313	0	0
Humboldt State U.	288	7,549	7,570	7,291	5,303	85	1,028	129	4,057	4
Lehigh U.	289	2,814	4,448	4,121	5,271	0	4,088	0	0	1,183
CUNY, Advanced Science Research Center	290	1,709	3,935	4,679	5,261	0	4,949	0	312	0
Teachers C., Columbia U.	291	3,554	4,651	4,455	5,040	0	0	0	0	5,040
Texas Southern U.	292	2,035	2,695	6,206	5,033	0	4,073	0	0	960
U. North Carolina, Charlotte	293	4,314	5,534	4,512	4,701	0	3,066	1,635	0	0
Fort Valley State U.	294	3,593	4,321	4,581	4,620	4,456	164	0	0	0
U. Hawaii, Hilo	295	4,753	4,212	4,149	4,525	1,575	996	1,263	311	380
Illinois State U.	296	2,682	3,688	3,183	4,364	179	2,936	1,249	0	0
U. Maryland, Eastern Shore	297	201	721	2,572	4,310	3,516	120	635	39	0
U. Colorado Denver <sup>c</sup>	298	na	na	na	4,284	0	1,012	3,149	106	17
U. Puerto Rico, Rio Piedras	299	2,841	3,728	3,617	4,283	0	4,234	49	0	0
California State U., Fresno	300	4,719	4,404	4,306	4,197	2,994	448	752	0	3
Idaho State U.	301	4,054	3,638	3,936	4,167	0	2,965	1,202	0	0
U. Detroit Mercy	302	4,353	4,796	4,337	4,096	0	3,743	353	0	0
Middle Tennessee State U.	303	1,597	1,679	2,029	4,048	953	2,096	667	141	191
California State U., Northridge	304	8,561	10,053	6,822	4,020	0	3,633	0	0	387
U. Central del Caribe	305	4,111	3,953	3,931	3,831	0	0	3,831	0	0
Yeshiva U.	306	3,302	2,420	2,477	3,830	0	0	3,830	0	0
Des Moines U.	307	1,137	1,406	3,637	3,805 i	282 i	2,931 i	592 i	0 i	0 i
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	308	3,502	3,769	3,737	3,776	0	3,660	116	0	0

TABLE 42

## Higher education R&amp;D expenditures in the life sciences, ranked by all FY 2021 life sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
U. Wisconsin-Stevens Point	309	3,492	3,903	4,317	3,716	857	205	2	2,652	0
California State U., Long Beach	310	5,238	5,335	4,816	3,700	0	1,201	2,499	0	0
Albany C. of Pharmacy and Health Sciences	311	2,730	3,381	3,765	3,687	0	3,562	125	0	0
San Jose State U.	312	1,073	1,133	1,542	3,655	0	2,431	1,224	0	0
Villanova U.	313	1,756	2,381	3,438	3,610	0	2,053	1,557	0	0
Desert Research Institute	314	3,232	2,993	3,539	3,574	0	3,574	0	0	0
California State Polytechnic U., Pomona	315	3,700	2,983	2,656	3,557	2,002	1,555	0	0	0
Winston-Salem State U.	316	884	650	2,400	3,530	0	189	3,341	0	0
Xavier U. Louisiana	317	3,986	3,255	3,929	3,511	0	378	3,133	0	0
Touro U.	318	3,233	3,543	3,539	3,475	0	2,637	0	0	838
SUNY, C. of Optometry	319	3,120	2,968	3,477	3,460	0	0	3,460	0	0
California State U., Monterey Bay	320	3,668	3,887	3,225	3,452	1,409	1,861	182	0	0
James Madison U.	321	1,130	1,146	1,844	3,372	0	1,865	1,429	77	1
U. of the Sciences Philadelphia	322	2,941	3,096	3,181	3,319	0	929	2,355	0	35
New York Institute of Technology	323	2,560	4,479	2,757	3,277	0	227	3,050	0	0
Montclair State U.	324	2,436	2,586	3,277	3,231	48	1,125	1,735	323	0
Pacific U.	325	3,124	5,294	3,852	3,186	0	121	2,745	24	296
Jackson State U.	326	2,140	1,902	2,129	3,183	0	691	2,492	0	0
Bowling Green State U.	327	1,146	1,268	1,766	3,158	312	1,125	1,535	186	0
Murray State U.	328	2,368	3,136	2,475	3,108	146	2,962	0	0	0
Colorado School of Mines	329	2,282	2,324	2,073	3,081	310	2,458	257	56	0
Kennesaw State U.	330	2,394	2,275	5,740	3,073	146	2,202	725	0	0
U. of the District of Columbia	331	1,804	2,600	2,157	3,054	2,726	63	0	0	265
Texas Woman's U.	332	2,451	2,121	2,259	3,053	0	251	2,802	0	0
Northern Illinois U.	333	3,552	4,306	2,319	3,011	0	1,232	1,660	119	0
Oregon Institute of Technology	334	59	1,940	1,741	2,894	0	1,637	780	477	0
Eastern Michigan U.	335	1,433	2,322	3,498	2,811	0	1,037	1,406	269	99
Sam Houston State U.	336	1,572	2,297	1,730	2,688	526	2,145	17	0	0
Ball State U.	337	2,615	2,880	2,738	2,674	0	1,536	1,042	96	0
William & Mary	338	3,463	2,775	2,694	2,669	827	1,823	19	0	0
U.S. Military Academy	339	720	578	421	2,642	0	1,318	1,324	0	0
Michigan Technological U.	340	3,788	4,323	3,804	2,621	0	1,772	849	0	0



TABLE 42

**Higher education R&D expenditures in the life sciences, ranked by all FY 2021 life sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
U. Alabama, Huntsville	341	2,528	2,815	3,170	2,620	9	1,411	1,179	0	21
Salisbury U.	342	1,850	2,004	2,366	2,598	0	381	2,120	97	0
SUNY, Polytechnic Institute	343	2,260	1,995	1,977	2,587	0	2,412	175	0	0
Tennessee Technological U.	344	1,202	2,025	2,306	2,510	228	1,325	143	791	23
California State U., Fullerton	345	2,515	2,843	2,440	2,507	136	1,770	537	64	0
MGH Institute of Health Professions	346	2,957	3,494	3,014	2,500	0	1,300	1,200	0	0
Western Illinois U.	347	1,214	1,413	1,914	2,346	2,012	334	0	0	0
U. Wisconsin-Superior	348	2,984	2,219	2,026	2,338	0	0	0	2,338	0
Western Kentucky U.	349	3,209	3,422	2,888	2,315	525	924	665	0	201
Alabama State U.	350	2,434	2,577	1,989	2,265	0	2,265	0	0	0
Louisiana Tech U.	351	2,303	2,565	2,510	2,242	824	749	370	0	299
Palmer C. of Chiropractic, Davenport	352	1,600	1,650	1,900	2,233	0	0	0	0	2,233
Southern Methodist U.	353	1,305	1,533	2,144	2,221	0	1,978	0	0	243
Florida Gulf Coast U.	354	274	153	760	2,209	0	94	897	1,218	0
Clark U.	355	1,225	2,057	1,953	2,197	295	1,059	0	11	832
St. John's U., New York	355	2,057	1,763	2,324	2,197	0	1,045	1,152	0	0
U. West Florida	357	2,129	1,511	2,081	2,192	0	2,018	45	0	129
Worcester Polytechnic Institute	358	2,049	1,791	2,104	2,188	0	2,188	0	0	0
Florida Institute of Technology	359	1,360	1,384	667	2,175	234	875	588	63	415
Framingham State U.	360	73	ne	2,060	2,132	0	0	2,132	0	0
Missouri State U.	361	1,468	1,646	1,812	2,109	572	850	0	626	61
U. Oklahoma, Tulsa	362	2,409	2,328	2,633	2,096	0	0	2,096	0	0
U. North Carolina, Asheville	363	1,713	1,271	1,559	2,045	0	322	1,014	317	392
Stephen F. Austin State U.	364	1,744	1,992	1,848	2,042	1,882	80	79	0	1
U. Nebraska, Kearney	365	1,439	1,810	1,953	2,021	211	995	394	421	0
U. Arkansas, Little Rock	366	1,647	2,483	2,878	1,997	17	1,957	21	2	0
New England C. of Optometry	367	1,026	1,223	1,150	1,978	0	0	1,978	0	0
Northern Kentucky U.	368	253	623	1,007	1,939	0	562	1,377	0	0
Indiana U. Pennsylvania	369	985	1,474	1,251	1,890	0	1,831	59	0	0
U. Louisiana, Monroe	370	1,805	1,795	2,104	1,885	28	298	1,559	0	0
Colorado State U., Pueblo	371	ne	1,693	1,703	1,845	0	1,845	0	0	0
U. Massachusetts, Dartmouth	372	2,304	2,062	1,467	1,834	0	1,725	109	0	0

TABLE 42

## Higher education R&amp;D expenditures in the life sciences, ranked by all FY 2021 life sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Grand Valley State U.	373	1,387	1,338	1,914	1,833	0	625	1,205	0	3
Bates C.	374	622	845	1,247	1,783	0	1,660	0	0	123
Keck Graduate Institute	375	1,367	1,537	1,578	1,765	0	717	1,048	0	0
California State U., East Bay	376	ne	ne	1,103	1,762	0	720	1,042	0	0
Appalachian State U.	377	1,573	1,663	1,879	1,745	60	1,089	269	327	0
Tougaloo C.	378	2,012	1,444	1,741	1,733	0	501	1,232	0	0
U. Puerto Rico, Mayaguez	379	2,027	2,526	1,881	1,729	864	865	0	0	0
Hampton U.	380	1,290	1,777	1,745	1,685	0	872	813	0	0
Hobart and William Smith Colleges	381	ne	1,335	1,563	1,664	0	45	0	1,619	0
Sul Ross State U.	382	2,011	1,578	1,595	1,654	127	0	0	1,527	0
Catholic U. of America	383	2,503	2,368	2,000	1,649	0	1,157	444	0	48
U. North Florida	384	1,347	1,373	1,388	1,647	0	1,243	404	0	0
Reed C.	385	1,754	1,588	1,573	1,629	0	1,629	0	0	0
Fisk U.	386	2,162	4,520	3,585	1,601	0	1,601	0	0	0
CUNY, Brooklyn C.	387	1,740	2,429	2,519	1,570	0	1,505	65	0	0
Wellesley C.	388	1,099	1,515	1,455	1,554	0	1,554	0	0	0
Rochester Institute of Technology	389	871	903	1,238	1,551	0	1,551	0	0	0
Naval Postgraduate School	390	1,313	1,939	1,655	1,537	0	570	270	0	697
Pennsylvania State U., Harrisburg	391	138	187	411	1,536	21	248	1,267	0	0
California State U., Chico	392	1,169	1,089	1,466	1,522	1,233	111	35	0	143
Western Carolina U.	393	550	1,095	1,128	1,484	136	421	927	0	0
Wesleyan U.	394	1,744	1,810	909	1,469	0	1,469	0	0	0
Smith C.	395	2,646	2,368	1,783	1,462	0	1,305	146	11	0
California State U., Sacramento	396	1,368	1,324	1,328	1,446	0	735	340	371	0
St. Edward's U.	397	1,038	2,210	1,620	1,445	150	825	0	470	0
Mercyhurst U.	398	ne	1,315	1,350	1,428	0	576	852	0	0
South Carolina State U.	399	6,234	1,318	1,367	1,416	0	1,217	199	0	0
Austin Peay State U.	400	826	912	1,333	1,404	0	50	1	1,063	290
U. Akron	401	1,633	1,928	1,882	1,390	0	1,180	210	0	0
C. Charleston	402	1,095	1,366	1,128	1,370	0	1,147	76	147	0
U. of the Incarnate Word	403	315	836	962	1,369	0	268	546	0	555
Dillard U.	404	4,889	1,776	1,323	1,356	0	470	534	0	352

TABLE 42

## Higher education R&amp;D expenditures in the life sciences, ranked by all FY 2021 life sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021						
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec	
Marshall B. Ketchum U.	405	1,451	i 1,430	i 1,357	i 1,351	i 0	i 0	i 1,351	i 0	i 0	i
Saginaw Valley State U.	406	998	1,381	1,229	1,282	i 19	i 62	i 1,199	i 0	i 2	i
U. Northern Colorado	407	1,856	1,679	1,239	1,263	0	963	156	0	144	
Bowdoin C.	408	1,473	1,476	1,196	1,262	0	1,262	0	0	0	
U. Texas, Tyler	409	979	1,378	1,302	1,260	0	774	332	154	0	
Amherst C.	410	869	1,570	1,064	1,259	i 0	i 1,259	i 0	i 0	i 0	i
West Virginia School of Osteopathic Medicine	411	ne	ne	1,303	1,245	0	522	721	0	2	
California State U., Stanislaus	412	1,027	910	1,169	1,232	0	1,222	10	0	0	
Hawaii Pacific U.	413	1,354	1,265	1,248	1,211	654	557	0	0	0	
Fordham U.	414	2,382	1,819	1,435	1,207	0	1,207	0	0	0	
Gallaudet U.	415	2,247	1,311	1,239	1,159	3	525	630	1	0	
Rhode Island C.	416	495	592	808	1,157	0	1,041	116	0	0	
Hope C.	417	708	477	636	1,152	0	1,130	22	0	0	
American U.	418	1,703	1,854	1,886	1,148	0	719	0	0	429	
California State U., San Marcos	419	2,540	1,950	1,888	1,120	0	978	128	0	14	
U. New Orleans	420	626	817	974	1,114	0	1,074	0	30	10	
Northeastern Illinois U.	421	1,343	1,325	1,122	1,111	27	351	724	0	9	
CUNY, C. Staten Island	422	1,163	i 923	1,277	1,109	0	407	690	0	12	
Trinity C., Hartford	423	529	983	975	1,077	0	1,062	0	0	15	
U. Wisconsin-Green Bay	424	823	i 1,173	i 1,114	i 1,065	i 0	i 335	i 730	i 0	i 0	i
Hofstra U.	425	433	472	575	1,062	0	590	359	113	0	
William Paterson U.	426	926	1,040	1,210	1,051	0	571	414	11	55	
Skidmore C.	427	1,489	1,221	937	1,042	0	351	691	0	0	
Azusa Pacific U.	428	2,685	995	2,002	1,022	0	174	848	0	0	
Middlebury C.	429	875	317	615	1,017	0	1,017	0	0	0	
California State U., San Bernardino	430	1,898	2,115	948	1,016	0	882	11	121	2	
Clarkson U.	431	1,401	1,163	999	1,014	0	920	93	0	1	
Barnard C.	432	701	660	692	1,008	135	873	0	0	0	
California State U., Channel Islands	433	889	942	901	1,001	0	807	153	41	0	
U. Texas of the Permian Basin	434	0	ne	335	983	0	962	8	0	13	
Purdue U., Northwest	435	775	615	988	974	0	29	945	0	0	
Fayetteville State U.	436	1,354	1,236	1,483	960	0	30	930	0	0	

TABLE 42

**Higher education R&D expenditures in the life sciences, ranked by all FY 2021 life sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
U. Houston-Clear Lake	437	211	279	347	942	0	42	92	808	0
Towson U.	438	710	914	836	914	0	450	432	32	0
U. Tennessee, Chattanooga	439	776	853	1,036	878	0	746	132	0	0
U. of the Pacific	440	1,267	1,187	982	870	0	687	183	0	0
C. New Jersey	441	371	ne	657	856	0	819	13	24	0
Northern Michigan U.	442	611	684	727	855	0	644	121	90	0
National U. of Natural Medicine	443	ne	1,245	1,428	850	0	0	850	0	0
Franklin and Marshall C.	444	730	815	578	840	0	677	163	0	0
U. Southern Maine	445	1,223	893	880	830	442	180	59	149	0
Swarthmore C.	446	648	755	841	824	0	824	0	0	0
Loyola Marymount U.	447	300	542	591	819	0	637	127	40	15
West Chester U. Pennsylvania	448	1,318	1,598	1,072	815	0	350	465	0	0
Biola U.	449	701 i	748 i	771 i	811 i	0 i	331 i	480 i	0 i	0 i
Black Hills State U.	450	504	847	824	806	0	800	0	6	0
Morehead State U.	451	276	697	299	802	23	728	0	51	0
Southeastern Louisiana U.	452	774	827	941	795	0	637	158	0	0
U. Alaska, Southeast	453	819	676	574	788	0	723	0	65	0
CUNY, Baruch C.	454	381	396	250	785	0	777	0	8	0
SUNY, Buffalo State	455	564	645	929	780	0	780	0	0	0
U. Richmond	456	823	937	765	766	0	766	0	0	0
U. Central Arkansas	457	986	682	785	755	0	462	293	0	0
U. Colorado Colorado Springs	457	634	528	845	755	0	728	0	0	27
Elizabeth City State U.	459	1	ne	435	752	0	751	0	0	1
California State U., Los Angeles	460	1,794	2,989 i	2,299	740	0	476	264	0	0
U. Wisconsin-Oshkosh	460	727 i	732 i	736 i	740	0	735	5	0	0
U. Tulsa	462	662	920	678	725	0	607	118	0	0
Western Washington U.	463	518	937	958	719	0	548	171	0	0
Bryn Mawr C.	464	1,018	829	705	709	0	709	0	0	0
Williams C.	465	600	720	686 i	703 i	0 i	602 i	0 i	0 i	101 i
Southern Connecticut State U.	466	598	841	1,308	689	49	132	452	56	0
U. Wisconsin-La Crosse	467	1,321	807	851	681	0	603	12	0	66
SUNY, C. Brockport	468	1,132	846	1,197	680	8	67	76	529	0

TABLE 42

## Higher education R&amp;D expenditures in the life sciences, ranked by all FY 2021 life sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Bucknell U.	469	1,103	608	743	i 674	0	674	0	0	0
U. Washington, Bothell	470	229	653	558	668	0	493	175	0	0
Montana Technological U.	471	907	1,006	708	661	0	661	0	0	0
U. South Carolina, Aiken	472	934	625	962	657	0	657	0	0	0
Haverford C.	473	754	i 582	i 926	i 647	i 0	i 313	i 334	i 0	i 0
U. Wisconsin-River Falls	474	199	ne	224	645	551	94	0	0	0
Pace U.	475	905	913	1,166	644	0	296	342	0	6
Spelman C.	476	684	536	624	633	0	484	149	0	0
Doane U.	477	652	585	601	i 630	i 0	i 630	i 0	i 0	i 0
Northland C.	478	ne	ne	ne	628	i 0	i 602	i 0	i 26	i 0
Marymount U.	479	ne	ne	ne	624	0	93	531	0	0
Seton Hall U.	480	724	810	138	607	0	607	0	0	0
Davidson C.	481	414	525	322	595	0	595	0	0	0
Pennsylvania State U., Behrend	482	120	124	21	593	125	55	29	384	0
Texas A&M U.-Commerce	483	1,140	1,040	924	587	463	31	86	0	7
Sonoma State U.	484	ne	ne	456	585	0	170	16	399	0
DePaul U.	485	783	479	465	573	0	371	60	0	142
Texas Christian U.	486	1,719	1,932	822	570	43	138	389	0	0
Pepperdine U.	487	350	358	623	564	0	398	161	0	5
U. Puerto Rico, Cayey	488	10	802	i 1,092	563	0	392	169	2	0
Missouri U. of Science and Technology	489	956	922	971	555	0	553	2	0	0
Saint Joseph's U.	490	413	477	761	547	0	517	30	0	0
Augustana U.	491	606	483	ne	546	0	0	546	0	0
Santa Clara U.	492	492	667	879	545	0	386	4	155	0
U. Dayton	493	1,002	818	632	544	0	163	210	171	0
Roger Williams U.	494	198	314	189	543	20	521	0	0	2
Christopher Newport U.	495	428	584	644	536	0	536	0	0	0
U. North Carolina, general administration	496	128	311	222	534	0	522	0	0	12
Clafin U.	497	242	350	857	515	0	492	23	0	0
Calvin U.	498	471	519	496	i 514	i 0	i 501	i 13	i 0	i 0
U. Wisconsin-Platteville	498	ne	389	i 396	i 514	i 172	i 191	i 98	i 53	i 0
Keene State C.	500	ne	549	967	510	0	510	0	0	0

TABLE 42

## Higher education R&amp;D expenditures in the life sciences, ranked by all FY 2021 life sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Eastern Kentucky U.	501	769	885	701	509	3	488	18	0	0
Colgate U.	502	737	726	478	507	0	507	0	0	0
Drake U.	503	338	260	ne	503	0	17	362	124	0
Occidental C.	503	288	739	368	503	88	279	86	50	0
Carleton C.	505	339	532	334	501	0	501	0	0	0
Liberty U.	506	ne	867	307	497	0	333	21	0	143
Southern U. and A&M C., Baton Rouge	507	357	430	338	492	112	261	19	100	0
Willamette U.	508	769	313	181	474	0	472	2	0	0
Saint John's U.	509	143	140	133	470	0	180	275	15	0
Indiana State U.	510	744	852	745	465	0	456	9	0	0
Dordt U.	511	ne	ne	ne	464	14	427	0	23	0
Trinity U.	512	448	452	505	461	0	455	6	0	0
Mount Holyoke C.	513	71	142	359	456	0	398	0	58	0
C. of Saint Benedict	514	159	157	149	450	0	178	259	13	0
Minnesota State U., Mankato	515	459	645	548	448	0	329	3	0	116
Providence C.	516	606	589	422	442	0	414	28	0	0
Johnson C. Smith U.	517	616	483	412	437	0	0	261	81	95
Eastern Washington U.	518	662	564	422	436	0	193	6	237	0
Grinnell C.	519	990	363	487	423	0	423	0	0	0
Lamar U.	519	381	685	285	423	0	23	32	0	368
Fort Lewis C.	521	ne	640	297	416	0	352	25	19	20
National Defense U.	522	0	0	200	400	0	400	0	0	0
U. San Francisco	523	492	456	308	398	0	81	284	32	1
U. Massachusetts, central office	524	381	329	545	392	0	0	392	0	0
U. Northern Iowa	525	256	215	306	387	219	164	4	0	0
Coastal Carolina U.	526	278	305	157	386	0	173	2	70	141
Colby C.	527	910	812	443	382	0	270	0	0	112
U. Central Oklahoma	527	314	367	366	382	0	316	66	0	0
Central Washington U.	529	613	517	449	380	0	336	31	13	0
St. Cloud State U.	530	1,048	887	441	379	85	270	16	0	8
U.S. Air Force Academy	531	341	140	0	369	0	317	19	33	0
Harvey Mudd C.	532	298	457	520	364	0	364	0	0	0

TABLE 42

## Higher education R&amp;D expenditures in the life sciences, ranked by all FY 2021 life sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
CUNY, New York City C. of Technology	533	769	631	496	362	0	362	0	0	0
Furman U.	534	502	412	873	348	0	309	39	0	0
Fort Hays State U.	535	ne	371	483	334	37	296	0	0	1
St. Olaf C.	536	372	288	249	321	1	182	69	23	46
Vassar C.	537	60 i	34	197	307	0	172	0	21	114
Pittsburg State U.	538	212	393	360	293	0	110	7	176	0
U. Ana G. Mendez, Gurabo	538	437	438	779	293	0	175	8	0	110
New Mexico Institute of Mining and Technology	540	226	395	260	290	0	290	0	0	0
Elon U.	541	397	367	344	288	0	108	180	0	0
Lewis and Clark C.	541	577	584	651	288	0	288	0	0	0
Pomona C.	541	341	296	338	288	0	288	0	0	0
U. Washington, Tacoma	544	331	597	164	281	0	203	40	38	0
SUNY, C. Plattsburgh	545	735	398	465	279	0	0	279	0	0
Claremont McKenna C.	546	366	338	400	274	0	274	0	0	0
Albany State U.	547	683	1,145	654	272	0	94	0	79	99
Savannah State U.	548	581	320	234	268	0	3	178	0	87
Colorado C.	549	220	307	156	260	0	144	0	96	20
C. Wooster	550	400	509	257	257 i	15 i	242 i	0 i	0 i	0 i
Purdue U., Fort Wayne	551	2,355	680	488	255	0	252	3	0	0
U. Hawaii, Maui C.	552	ne	ne	ne	253	0	253	0	0	0
Winthrop U.	552	386	513	501	253	0	240	13	0	0
Troy U.	554	ne	ne	290	250	103	62	2	83	0
CUNY, Lehman C.	555	1,145	205	256	249	0	181	68	0	0
Stockton U.	556	158	78	195	247	0	0	25	152	70
Oberlin C.	557	447	971	295	239	0	230	9	0	0
Connecticut C.	558	663	348	275	232	0	232	0	0	0
U. Wisconsin-Eau Claire	558	138	145	126	232	0	174	58	0	0
Ithaca C.	560	ne	ne	459	230	0	128	95	0	7
U. Michigan, Dearborn	561	403	313	382	226	0	75	151	0	0
New Mexico Highlands U.	562	154	ne	226	222 i	0 i	164 i	0 i	58 i	0 i
Texas A&M International U.	563	3,150	3,569	333	216	0	185	8	23	0
Eastern Connecticut State U.	564	76	302	381	210	1	205	0	4	0

TABLE 42

## Higher education R&amp;D expenditures in the life sciences, ranked by all FY 2021 life sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Arcadia U.	565	ne	ne	ne	201	0	0	201	0	0
California State U., Bakersfield	566	430	316	245	197	8	189	0	0	0
New School	566	9	23	324	197	0	40	18	137	2
U. New Haven	568	182	91	40	190	0	121	11	58	0
U. of St. Thomas (MN)	569	375	471	514	182	0	182	0	0	0
U. Michigan, Flint	570	226	213	222	172	0	28	144	0	0
U. of Mary Washington	571	55	100	132	155	0	155	0	0	0
Central Connecticut State U.	572	ne	112	131	142	0	142	0	0	0
CUNY, York C.	572	ne	377	494	142	0	129	5	0	8
California State U., Dominguez Hills	574	380	244	144	140	61	0	64	0	15
SUNY, Oswego	575	393	359	286	135	0	129	6	0	0
Mills C.	576	0	121	95	129	0	0	0	0	129
U. Virginia's C. Wise	577	ne	ne	ne	125	0	125	0	0	0
Hamilton C.	578	251	180	81	122	0	122	0	0	0
U. North Georgia	578	120	286	91	122	2	31	2	8	79
U. Puerto Rico, Humacao	580	233	295	255	111	0	86	0	25	0
U. San Diego	580	417	357	217	111	0	37	74	0	0
CUNY, Graduate Center	582	59	51	116	110	0	110	0	0	0
Citadel Military C. South Carolina	583	ne	ne	109	108	0	103	5	0	0
Macalester C.	583	290	343	297	108	0	108	0	0	0
Northwest Indian C.	583	1,164	104	103	108	108	0	0	0	0
SUNY, Geneseo	583	194	233	131	108	0	108	0	0	0
Abilene Christian U.	587	ne	ne	ne	101	0	101	0	0	0
Bowie State U.	588	75	122	414	96	0	96	0	0	0
Albion C.	589	152	118	96	94	0	74	0	0	20
Lafayette C.	589	82	118	94	94	0	93	1	0	0
Stevens Institute of Technology	589	83	33	203	94	0	94	0	0	0
Morehouse C.	592	119	116	120	90	0	90	0	0	0
Northwestern State U. Louisiana	593	202	261	307	89	0	7	82	0	0
Norfolk State U.	594	53	108	114	88	0	88	0	0	0
Dakota State U.	595	10	7	48	80	80	0	0	0	0
U. Hartford	596	10	38	101	77	0	0	77	0	0



TABLE 42

**Higher education R&D expenditures in the life sciences, ranked by all FY 2021 life sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Monmouth U.	597	ne	164	88	74	0	35	0	39	0
Union C., Schenectady	597	53	80	60	74	0	64	0	0	10
Indiana U., South Bend	599	84	ne	ne	62	0	49	13	0	0
Jacksonville State U.	600	192	114	44	61	0	61	0	0	0
Wheaton C., Wheaton	601	107	216	184	57	0	24	33	0	0
Kean U.	602	ne	ne	183	56	0	0	16	0	40
Manhattan C.	603	ne	91	66	49	0	49	0	0	0
Niagara U.	603	101	94	76	49	0	49	0	0	0
CUNY, John Jay C. of Criminal Justice	605	835	254	92	48	0	43	5	0	0
Youngstown State U.	606	34	100	101	42	0	14	28	0	0
CUNY, system office	607	43	30	84	37	0	37	0	0	0
Fairfield U.	608	1,015	146	279	36	0	14	22	0	0
Seattle U.	609	349	248	156	33	4	29	0	0	0
Suffolk U.	609	ne	ne	29	33	0	33	0	0	0
U. Minnesota, Morris	611	ne	53	72	31	0	20	0	11	0
Alaska Pacific U.	612	115	221	38	29	29	0	0	0	0
Sacred Heart U.	613	ne	ne	ne	26	0	0	24	0	2
U. Houston-Downtown	614	75	38	46	25	0	25	0	0	0
Rutgers, State U. New Jersey, Camden	615	0	32	225	13	0	13	0	0	0
Kettering U.	616	19	26	53	8	0	8	0	0	0
Andrews U.	617	ne	35	15	7	0	0	0	0	7
U. Illinois, Springfield	618	28	8	5	6	0	2	1	3	0
La Sierra U.	619	64	132	101	5	0	5	0	0	0
All other surveyed institutions	-	1,138,224	599,826	543,895	0	0	0	0	0	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

nec = not elsewhere classified.

<sup>a</sup> Johns Hopkins University includes the Applied Physics Laboratory (APL), with \$36,580 thousand in total R&D expenditures in life sciences in FY 2021. Total expenditures by field for Johns Hopkins University are flagged as imputed because APL was unable to distribute a portion of institutionally funded R&D by field.

<sup>b</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

<sup>c</sup> The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of

Colorado Denver and Anschutz Medical Campus.

<sup>d</sup> The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

<sup>e</sup> The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

**Note(s):**

Institutions reporting zero expenditures in ranked total for FY 2021 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 43

## Federally financed higher education R&amp;D expenditures in the life sciences, ranked by all FY 2021 life sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
All institutions	-	23,864,977	25,436,404	26,232,263	28,452,956	1,099,585	10,001,728	16,138,445	429,905	783,293
Johns Hopkins U. <sup>a</sup>	1	667,885	706,853	714,341	765,565	0	269,831	495,734	0	0
U. Washington, Seattle	2	672,737	664,192	667,996	683,132	0	168,960	488,597	14,570	11,005
U. California, San Francisco	3	634,003	632,556	634,918	645,510	0	433	645,077	0	0
U. Pennsylvania	4	555,651	582,252	577,785	644,430	6	434,661	171,402	0	38,361
Duke U.	5	515,536	568,773	568,232	638,716	0	236,697	383,958	5,392	12,669
U. Pittsburgh, Pittsburgh	6	558,941	585,348	590,430	628,092	377	206,387	421,306	0	22
Columbia U. in the City of New York	7	488,041	539,940	562,474	611,343	0	186,401	422,968	1,448	526
Stanford U.	8	488,675	519,870	529,667	578,172	0	185,954	359,980	861	31,377
Yale U.	9	470,751	497,350	512,821	570,441	0	150,159	415,334	4,948	0
U. North Carolina, Chapel Hill	10	489,297	513,100	521,691	569,385	0	143,283	426,102	0	0
Icahn School of Medicine at Mount Sinai	11	398,656	443,745	480,452	554,582	0	235,660	318,922	0	0
U. Michigan, Ann Arbor	12	501,174	548,206	547,904	549,127	0	185,914	333,812	6,254	23,147
Washington U., Saint Louis	13	444,153	476,233	489,071	528,261	0	237,968	290,293	0	0
U. California, Los Angeles	14	392,520	417,741	459,909	523,747	0	21,562	502,185	0	0
Vanderbilt U. and Vanderbilt U. Medical Center	15	382,263	391,543	413,212	484,119	0	121,941	361,743	13	422
Emory U.	16	367,597	393,978	419,593	478,989	0	161,290	307,719	0	9,980
U. California, San Diego	17	393,698	408,818	413,628	465,019	0	45,133	419,886	0	0
New York U.	18	318,869	335,764	353,092	446,533	0	177,500	267,032	0	2,001
Northwestern U.	19	339,676	370,062	393,156	426,804	0	115,175	302,805	0	8,824
Harvard U.	20	389,289	423,934	401,466	411,239	0	308,919	74,024	5,613	22,683
U. Minnesota, Twin Cities	21	290,484	312,158	334,529	388,235	24,629	75,180	274,027	11,115	3,284
Cornell U.	22	278,645	321,219	352,059	385,534	32,441	164,967	185,010	2,952	164
U. Wisconsin-Madison	23	330,313	366,311	373,989	385,530	40,355	159,456	185,553	102	64
U. Alabama, Birmingham	24	319,449	345,887	341,725	366,366	0	100,726	265,640	0	0
Baylor C. of Medicine	25	300,098	309,354	315,101	365,472	0	196,635	168,837	0	0
U. Maryland <sup>b</sup>	26	na	377,610	360,827	362,219	23,474	116,912	215,882	998	4,953
U. Colorado Anschutz Medical Campus <sup>c</sup>	27	na	na	na	361,493	299	4,008	357,186	0	0
Ohio State U.	28	270,596	289,023	321,704	350,221	31,002	65,420	245,788	4,590	3,421
U. Southern California	29	280,016	304,604	321,802	328,186	0	82,518	235,884	0	9,784
Oregon Health and Science U.	30	255,794	287,578	312,023	318,175	0	17,330	195,006	744	105,095
Case Western Reserve U.	31	304,739	314,870	316,948	294,556	0	71,246	206,937	0	16,373

TABLE 43

**Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2021 life sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Boston U.	32	175,980	217,748	228,882	293,731	0	112,638	181,093	0	0
U. Cincinnati	33	225,026	228,266	263,035	282,277	0	34,328	239,842	0	8,107
U. Florida	34	247,852	261,847	265,894	281,503	52,672	66,696	156,907	5,228	0
U. California, Davis	35	277,842	287,847	293,608	279,849	32,317	120,744	126,788	0	0
Scripps Research Institute	36	267,088	267,122	243,502	272,181	0	272,181	0	0	0
Uniformed Services U. of the Health Sciences	37	211,620	289,658	229,498	262,204	0	5,079	257,125	0	0
U. Chicago	38	188,680	212,983	231,277	260,911	0	66,653	194,258	0	0
U. Texas Southwestern Medical Center	39	197,910	203,544	242,679	257,611	0	100,990	156,620	0	1
Rutgers, State U. New Jersey, New Brunswick	40	238,865	205,955	218,451	254,944	31,252	54,432	165,473	0	3,787
Indiana U., Bloomington	41	185,135	235,383	243,023	251,142	0	82,191	168,420	0	531
Texas A&M U., College Station and Health Science Center	42	112,702	127,756	275,643	250,689	42,991	55,631	139,429	9,155	3,483
U. Massachusetts, Medical School	43	194,953	197,388	192,938	248,873	0	100,459	62,856	0	85,558
U. Utah	44	213,459	164,525	202,404	218,204	0	28,068	186,207	17	3,912
Albert Einstein C. of Medicine	45	196,457	202,513	204,635	214,619	0	0	214,619	0	0
U. Iowa	46	186,334	192,564	202,824	212,393	0	80,979	130,852	0	562
U. Arizona	47	157,629	177,953	179,457	206,315	13,626	115,658	71,073	5,958	0
U. Texas M. D. Anderson Cancer Center	48	153,711	154,878	163,540	194,972	7,306	73,202	114,464	0	0
U. Virginia, Charlottesville	49	154,913	167,585	186,706	190,160	0	130,255	59,905	0	0
Colorado State U., Fort Collins	50	101,725	144,035	160,153	187,839	17,728	37,530	17,382	111,322	3,877
Wake Forest U.	51	151,899	163,236	164,482	186,487	0	2,321	184,166	0	0
U. Rochester	52	171,199	172,698	173,198	185,919	0	48,117	137,802	0	0
U. Illinois, Chicago	53	152,074	162,930	173,236	182,440	0	41,820	139,546	1,074	0
U. New Mexico	54	107,957	96,789	94,977	180,991	10	22,646	156,667	1,158	510
U. Miami	55	138,701	159,479	167,153	167,201	0	62,744	98,956	632	4,869
U. Kentucky	56	124,665	146,907	154,842	166,751	13,036	101,455	52,260	0	0
U. Texas Health Science Center, Houston	57	128,232	132,647	133,624	165,139	0	36,466	72,125	0	56,548
Medical U. South Carolina	58	142,639	153,226	153,802	162,394	0	51,796	48,670	0	61,928
U. California, Irvine	59	115,983	128,408	142,756	154,668	0	75,077	79,591	0	0
Pennsylvania State U., University Park and Hershey Medical Center	60	131,739	134,964	146,249	142,063	26,181	63,659	51,789	434	0
Michigan State U.	61	143,557	155,127	136,029	141,436	38,807	62,624	28,328	2,642	9,035

TABLE 43

**Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2021 life sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
U. Georgia	62	108,494	114,935	124,753	135,261	30,083	90,936	13,291	0	951
Medical C. Wisconsin	63	106,409	113,007	122,394	131,164	0	49,607	81,557	0	0
George Washington U.	64	117,015	114,065	117,325	122,600	0	39,381	83,219	0	0
U. Illinois, Urbana-Champaign	65	81,037	97,918	110,331	121,883	23,746	54,744	1,159	42,234	0
U. California, Berkeley	66	112,538	115,309	119,018	119,251	199	65,808	26,345	26,899	0
Temple U.	67	110,881	122,159	118,429	117,907	0	29,114	62,141	0	26,652
Virginia Commonwealth U.	68	100,472	101,127	108,867	117,761	0	47,612	60,154	0	9,995
U. Texas Medical Branch	69	103,263	107,395	113,827	117,490	0	85,905	31,585	0	0
Tufts U.	70	48,260	83,149	102,746	115,629	1,073	71,168	38,262	0	5,126
U. Kansas	71	94,896	102,440	113,305	115,370	0	30,741	83,587	1,042	0
SUNY, U. Buffalo	72	102,258	102,425	108,496	115,162	0	51,230	62,571	0	1,361
U. Nebraska, Medical Center	73	93,463	102,604	105,158	111,042	0	71,474	39,568	0	0
U. Missouri, Columbia	74	88,197	92,664	99,475	109,626	23,336	35,810	44,407	6,073	0
Thomas Jefferson U.	75	64,869	74,816	74,594	109,364	0	49,473	59,891	0	0
Georgetown U.	76	74,985	77,391	77,133	109,131	0	8,536	99,766	0	829
Brown U.	77	89,486	94,797	99,779	108,063	0	43,126	37,100	0	27,837
U. Texas Health Science Center, San Antonio	78	86,956	96,502	102,959	106,824	0	48,445	58,379	0	0
U. Connecticut	79	84,253	94,232	93,227	105,940	3,267	52,731	47,916	2,026	0
Washington State U.	80	78,651	86,617	84,222	101,065	37,176	23,178	36,732	2,264	1,715
U. South Florida <sup>d</sup>	81	103,580	105,807	89,644	98,950	0	64,801	33,784	272	93
Tulane U.	82	89,243	90,615	92,019	98,650	0	25,730	21,498	110	51,312
Dartmouth C. and Dartmouth Hitchcock Medical Center	83	100,337	94,317	94,419	98,639	0	53,355	44,449	543	292
Rockefeller U.	84	82,864	81,326	82,626	92,292	0	87,220	5,072	0	0
Wayne State U.	85	88,216	92,845	89,306	88,791	0	16,595	72,186	0	10
U. Vermont	86	70,687	74,193	81,752	87,438	12,330	35,980	37,336	1,792	0
U. Texas, Austin	87	71,862	70,469	70,386	84,849	22	44,438	36,365	1,230	2,794
Purdue U., West Lafayette	88	74,981	73,576	76,677	84,604	37,063	13,625	33,916	0	0
U. Arkansas for Medical Sciences	89	57,523	63,498	70,508	83,387	0	34,745	47,652	0	990
U. Oklahoma, Norman and Health Science Center	90	64,447	66,880	72,245	79,517	0	32,725	46,790	0	2
Oregon State U.	91	64,925	68,066	70,516	78,583	26,857	32,710	7,005	11,927	84
U. Louisville	92	67,365	71,330	71,342	77,090	0	44,936	29,156	18	2,980

TABLE 43

**Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2021 life sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
North Carolina State U.	93	68,297	70,069	68,962	75,648	23,589	47,017	0	0	5,042
Massachusetts Institute of Technology	94	80,693	80,200	76,829	75,204	0	37,649	16,015	0	21,540
SUNY, Stony Brook U.	95	62,230	63,440	66,263	72,683	0	40,518	32,165	0	0
Virginia Polytechnic Institute and State U.	96	62,829	67,390	64,084	72,611	21,982	18,558	21,979	9,772	320
Rush U.	97	61,445	66,527	63,438	70,912	0	10,059	60,853	0	0
California Institute of Technology	98	54,071	60,735	65,063	67,899	0	67,730	123	0	46
U. Hawaii, Manoa	99	65,897	66,036	62,548	62,074	6,687	19,052	28,587	1,093	6,655
Augusta U.	100	48,749	46,970	55,685	61,727	0	29,845	30,933	0	949
U. Mississippi	101	51,426	57,460	59,546	60,201	177	19,215	39,086	0	1,723
Drexel U.	102	47,522	51,968	49,999	58,129	0	26,987	30,650	492	0
Cold Spring Harbor Laboratory	103	67,139	73,854	62,068	56,889	2,207	54,682	0	0	0
Iowa State U.	104	54,201	54,905	60,272	56,344	21,142	17,834	6,315	0	11,053
Arizona State U.	105	64,121	47,334	51,775	56,184	0	40,918	15,101	164	1
U. Tennessee, Health Science Center	106	38,895	42,347	48,264	56,021	0	23,001	33,007	0	13
Princeton U.	107	47,385	55,044	53,867	54,327	0	52,315	0	2,012	0
U. South Carolina, Columbia	108	48,945	53,489	53,870	53,300	0	9,864	43,436	0	0
U. Montana, Missoula	109	39,026	40,114	45,895	51,926	183	14,945	26,382	10,416	0
West Virginia U.	110	35,726	39,527	41,367	51,717	5,139	16,135	24,940	4,225	1,278
Louisiana State U., Baton Rouge	111	44,434	47,731	45,823	51,067	18,185	29,672	234	2,976	0
U. Nebraska, Lincoln	112	46,984	48,939	48,702	48,519	24,698	14,327	6,214	3,280	0
U. California, Riverside	113	28,846	31,966	41,696	45,420	8,249	24,845	12,326	0	0
U. Nevada, Reno	114	30,829	31,278	33,564	43,804	3,561	25,242	11,439	2,560	1,002
U. Colorado Boulder	115	33,518	42,813	42,667	43,726	977	36,680	3,515	580	1,974
Mississippi State U.	116	31,543	35,061	37,520	42,435	30,757	2,552	734	5,937	2,455
Kansas State U.	117	47,740	46,819	43,367	40,991	29,741	10,615	635	0	0
SUNY, U. Albany	118	65,947	71,179	45,162	38,544	0	18,406	20,138	0	0
Cleveland State U.	119	44,887	38,942	40,809	38,233	0	37,018	1,215	0	0
U. Massachusetts, Amherst	120	34,641	36,775	36,163	37,266	10,740	16,284	6,288	3,663	291
Saint Louis U.	121	25,030	30,144	29,211	36,701	0	13,620	23,081	0	0
Montana State U., Bozeman	122	27,955	33,739	33,155	36,541	14,504	12,653	9,302	82	0
U. Idaho	123	27,029	30,467	33,427	35,296	10,658	19,286	29	5,289	34
Auburn U., Auburn	124	24,809	24,883	29,821	35,103	18,928	5,996	1,261	360	8,558

TABLE 43

**Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2021 life sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Georgia State U.	125	34,958	33,247	35,718	34,512	200	26,909	7,260	0	143
Louisiana State U., Health Sciences Center, New Orleans	126	26,988	31,290	31,381	34,272	0	17,760	15,847	0	665
U. Puerto Rico, Medical Sciences Campus	127	30,597	34,541	26,897	32,997	0	0	32,997	0	0
U. Delaware	128	26,620	30,421	34,456	32,572	9,280	3,996	19,296	0	0
U. North Texas, Health Science Center	129	27,188	26,489	25,461	32,464	0	8,634	23,830	0	0
U. Tennessee, Knoxville <sup>e</sup>	130	10,634	11,210	30,983	32,204	10,090	13,709	4,309	4,096	0
Florida State U.	131	25,178	31,905	34,311	30,746	119	10,937	17,927	945	818
U. Oregon	132	26,484	29,759	29,342	29,640	0	28,980	297	363	0
U. New Hampshire	133	32,492	27,400	30,725	29,183	8,252	4,781	11,612	4,538	0
U. Wyoming	134	23,848	29,891	31,367	28,786	5,122	14,012	3,205	6,435	12
SUNY, Downstate Health Sciences U.	135	26,302	26,914	26,454	27,620	0	27,284	336	0	0
U. Louisiana, Lafayette	136	11,620	18,209	19,960	26,466	109	16,125	10,130	102	0
Northern Arizona U.	137	16,929	22,912	24,039	25,641	577	17,143	3,033	3,810	1,078
Morehouse School of Medicine	138	24,326	22,461	22,500	25,181	0	0	25,181	0	0
SUNY, Upstate Medical U.	139	20,391	22,028	23,940	24,974	0	12,320	12,654	0	0
Utah State U.	140	25,380	27,195	24,904	24,945	12,527	2,911	1,390	8,117	0
U. Alaska, Fairbanks	141	14,540	10,218	14,391	23,554	1,691	19,159	212	2,492	0
Loyola U., Chicago	142	19,379	20,625	21,189	23,288	0	12,636	10,324	328	0
Brandeis U.	143	19,117	19,823	21,616	22,656	0	16,190	6,466	0	0
North Dakota State U.	144	17,948	17,721	17,605	22,286	11,713	4,056	4,987	1,530	0
Van Andel Research Institute	145	14,285	18,259	18,538	22,231	0	22,231	0	0	0
New Mexico State U.	146	13,510	15,987	17,602	21,918	7,523	13,212	434	9	740
U. Rhode Island	147	17,752	18,557	21,040	21,298	2,105	15,150	2,771	0	1,272
Oklahoma State U., Stillwater	148	18,207	17,380	17,865	21,210	7,231	10,218	603	3,139	19
Clemson U.	149	17,577	18,084	21,908	20,765	6,629	7,601	2,070	0	4,465
Florida International U.	150	21,098	21,908	23,279	20,713	2	17,524	2,063	1,124	0
Florida A&M U.	151	15,164	18,275	18,174	19,995	7,686	29	9,150	205	2,925
Howard U.	152	18,013	16,333	15,752	19,875	0	2,527	16,300	0	1,048
U. Maine	153	17,333	18,122	19,256	19,690	8,506	5,112	0	6,072	0
U. Houston	154	14,971	18,470	18,438	19,471	99	8,294	10,820	244	14
Northeastern U.	155	18,944	18,983	20,238	18,436	0	11,399	4,148	0	2,889

TABLE 43

**Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2021 life sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
U. California, Santa Cruz	156	15,431	15,946	16,914	17,564	144	17,420	0	0	0
San Diego State U.	157	16,474	16,844	15,009	17,106	0	5,985	11,113	8	0
U. North Dakota	158	14,405	13,647	15,954	17,046	0	9,103	7,943	0	0
Ponce Health Sciences U.	159	6,386	8,339	11,228	16,996	0	0	16,996	0	0
U. Arkansas, Fayetteville	160	23,231	21,808	16,887	15,881	11,119	3,154	1,351	257	0
Tennessee State U.	161	6,778	6,743	14,785	15,633	i 9,263 i	2,396	i 644 i	i 23 i	i 3,307 i
U. Central Florida	162	11,036	11,466	12,485	15,068	0	10,666	4,402	0	0
Eastern Virginia Medical School	163	21,356	19,408	15,748	14,774	0	6,620	8,154	0	0
Meharry Medical C.	164	14,515	16,443	12,573	13,784	0	13,784	0	0	0
East Carolina U.	165	9,773	12,382	12,296	13,680	0	5,749	7,931	0	0
U. Toledo	166	11,602	13,213	12,830	13,665	0	3,292	10,253	0	120
U. Nevada, Las Vegas	167	13,165	12,545	14,582	13,583	199	7,772	4,992	110	510
U. Texas, Dallas	168	10,606	13,916	16,603	13,432	0	2,713	10,719	0	0
Albany Medical C.	169	10,243	11,827	12,940	13,166	0	12,700	466	0	0
U. South Alabama	170	10,329	12,364	12,175	13,027	0	133	12,509	0	385
U. Notre Dame	171	11,043	13,259	11,155	12,920	0	12,920	0	0	0
U. Texas, El Paso	172	12,056	12,223	10,414	12,399	0	10,380	1,958	61	0
U. Nebraska, central administration	173	8,817	11,875	12,521	12,391	823	9,259	2,309	0	0
Louisiana State U., Health Sciences Center, Shreveport	174	9,235	12,185	11,452	12,359	0	10,192	2,167	0	0
U. California, Santa Barbara	175	16,706	16,345	12,927	12,283	0	11,506	0	777	0
Texas Tech U., Health Sciences Center	176	7,477	11,262	12,977	12,114	0	8,118	3,996	0	0
U. Texas Health Science Center, Tyler	177	6,438	i 7,084 i	7,732	12,007	0	12,007	0	0	0
Indiana U.-Purdue U., Indianapolis	178	8,368	9,805	11,548	11,825	0	6,086	5,645	0	94
U. Texas, San Antonio	179	8,553	12,135	10,733	11,786	0	10,784	928	0	74
Georgia Institute of Technology	180	16,020	15,691	22,969	11,713	0	11,572	141	0	0
Portland State U.	181	10,857	12,530	11,523	11,566	15	8,523	1,009	1,987	32
U. Missouri, Kansas City	182	6,419	10,630	13,054	11,443	0	4,016	7,427	0	0
Florida Atlantic U.	183	7,668	9,452	11,087	11,315	0	6,611	4,374	0	330
CUNY, Graduate School of Public Health and Health Policy	184	3,757	3,933	7,444	11,244	0	492	10,700	0	52
South Dakota State U.	185	18,857	22,888	16,767	11,133	6,665	1,284	1,482	1,253	449



TABLE 43

## Federally financed higher education R&amp;D expenditures in the life sciences, ranked by all FY 2021 life sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
New York Medical C.	186	8,141	i 11,061	i 12,106	10,739	0	4,088	3,308	0	3,343
George Mason U.	187	11,332	9,658	8,803	10,609	129	5,399	4,519	562	0
Marshall U.	188	7,953	8,481	10,082	10,409	0	2,694	7,715	0	0
Northeast Ohio Medical U.	189	9,634	10,029	10,649	9,982	0	7,210	2,274	0	498
Charles R. Drew U. of Medicine and Science	190	10,198	10,427	9,863	9,945	0	0	9,945	0	0
Delaware State U.	191	6,946	8,139	8,311	i 9,554	1,615	6,867	351	721	0
North Carolina Agricultural and Technical State U.	192	7,924	7,118	6,945	9,455	4,736	1,186	989	2,544	0
Southern Illinois U., Carbondale	193	9,252	9,580	9,899	9,451	3,720	1,824	3,907	0	0
Loma Linda U.	194	12,987	i 11,804	i 10,619	i 9,436	0	5,341	4,095	0	0
Carnegie Mellon U.	195	7,061	9,677	9,523	9,072	256	8,160	407	0	249
Rosalind Franklin U. of Medicine and Science	196	9,203	8,765	8,421	9,041	0	7,942	948	0	151
Boise State U.	197	5,847	6,384	7,021	8,959	418	6,566	1,345	624	6
Rutgers, State U. New Jersey, Newark	198	6,954	5,847	7,681	8,709	0	7,225	1,484	0	0
CUNY, Queens C.	199	8,502	9,569	9,378	8,529	0	1,155	7,374	0	0
U. Guam	200	5,841	6,201	6,625	8,519	2,251	323	2,363	3,582	0
U. South Dakota	201	10,007	9,660	9,733	8,496	0	7,905	546	0	45
San Francisco State U.	202	7,900	8,950	7,959	i 8,039	0	7,566	42	204	227
East Tennessee State U.	203	5,827	7,011	6,785	8,010	0	6,103	1,907	0	0
New Jersey Institute of Technology	204	23,006	19,806	14,836	7,820	0	966	6,854	0	0
U. Texas, Arlington	205	2,409	5,586	7,558	7,783	0	2,923	4,860	0	0
Illinois Institute of Technology	206	9,514	10,066	8,605	7,769	366	6,735	662	0	6
U. Maryland, Baltimore County	207	3,491	9,297	8,644	7,736	370	7,243	4	0	119
U. Southern Mississippi	208	6,110	6,662	7,241	7,633	0	7,130	503	0	0
Rice U.	209	7,813	8,245	8,540	7,628	0	7,628	0	0	0
Wright State U.	210	9,512	9,735	8,029	7,544	0	4,572	2,968	0	4
Boston C.	211	10,440	11,274	7,119	7,427	0	6,232	1,195	0	0
U. Texas Rio Grande Valley	212	7,147	8,649	7,403	7,186	1,330	1,879	3,884	30	63
Tuskegee U.	213	4,648	6,703	6,837	6,933	5,083	1,850	0	0	0
Ohio U.	214	3,725	4,619	5,296	6,837	0	3,462	3,302	0	73
CUNY, City C.	215	6,990	5,293	4,054	6,672	0	5,275	1,236	0	161
Creighton U.	216	4,250	i 6,159	i 5,651	i 6,649	i 0	i 2,775	i 3,874	i 0	i 0
Wichita State U.	217	1,567	2,435	2,632	6,332	0	2,395	3,937	0	0

TABLE 43

**Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2021 life sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
U. Nebraska, Omaha	218	3,648	3,243	4,927	6,315	0	952	5,331	0	32
U. Alaska, Anchorage	219	5,625	6,313	4,779	6,170	0	5,164	157	799	50
Rowan U.	220	5,347	6,069	6,151	6,086	0	3,249	2,798	0	39
U. Alabama, Tuscaloosa	221	2,807	3,525	4,483	6,041	0	2,864	3,177	0	0
Brigham Young U., Provo	222	4,321	4,516	4,659	5,937	1,746	3,353	768	0	70
U. Massachusetts, Lowell	223	4,645	3,898	4,573	5,842	0	2,921	2,921	0	0
U. North Carolina, Greensboro	224	4,212	5,771	5,045	5,785	0	3,761	1,672	0	352
Texas Tech U.	225	5,172	6,199	4,978	5,784	2,558	1,621	760	845	0
North Carolina Central U.	226	6,581	8,027	6,664	5,699	0	5,698	1	0	0
U. Maryland Center for Environmental Science	227	6,873	8,003	5,850	5,603	511	682	0	4,331	79
Chapman U.	228	2,507	4,091	4,431	5,563	390	2,796	2,377	0	0
SUNY, C. of Environmental Science and Forestry	229	5,771	6,664	6,831	5,510	568	2,389	0	2,551	2
U. Wisconsin-Milwaukee	230	3,311	4,503	5,581	5,486	0	2,132	3,354	0	0
Marquette U.	231	5,377	6,572	5,298	5,446	88	2,967	2,391	0	0
Lincoln U., Jefferson City	232	2,118	2,319	3,351	5,444	4,792	297	107	141	107
Prairie View A&M U.	233	4,968	5,363	5,164	5,337	4,915	320	28	74	0
Baylor U.	234	1,717	2,096	3,385	5,327	230	3,462	1,446	138	51
Morgan State U.	235	3,656	3,939	4,679	5,281	75	2,121	3,085	0	0
Syracuse U.	236	4,930	5,223	5,108	5,223	0	3,858	752	613	0
U. of the Virgin Islands	237	9,146	8,079	5,976	5,203	2,609	1,913	584	97	0
Nova Southeastern U.	238	3,540	4,725	4,572	5,098	0	0	5,098	0	0
U. Massachusetts, Boston	239	4,589	4,620	4,525	5,050	5	2,827	2,104	114	0
Western U. of Health Sciences	240	2,562	2,573	4,055	5,020	493	4,511	16	0	0
Texas A&M U.-Kingsville	241	4,317	5,248	5,908	4,752	3,595	1,157	0	0	0
Lehigh U.	242	2,152	3,846	3,834	4,707	0	3,767	0	0	940
U. California, Merced	243	2,060	3,916	3,874	4,426	1	2,895	1,109	0	421
CUNY, Advanced Science Research Center	244	1,231	3,452	4,166	4,399	0	4,115	0	284	0
CUNY, Hunter C.	245	3,351	3,958	5,303	4,388	0	4,080	308	0	0
Texas State U.	246	2,257	2,579	2,260	4,329	414	3,400	0	0	515
Fort Valley State U.	247	3,382	4,228	4,492	4,313	4,192	121	0	0	0
Kent State U.	248	1,752	3,094	3,056	4,224	15	2,715	1,459	33	2
Central Michigan U.	249	4,921	4,898	4,396	4,171	0	2,740	904	527	0

TABLE 43

**Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2021 life sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
West Virginia State U.	250	4,629	4,282	3,540	4,117	3,482	0	24	611	0
U. of Health Sciences and Pharmacy in St. Louis	251	ne	ne	3,767	4,063	0	0	4,063	0	0
U. Maryland, Eastern Shore	252	193	616	2,567	4,039	3,263	120	635	21	0
Tarleton State U.	253	4,016	4,293	3,534	3,983	3,831	0	0	152	0
U. Minnesota, Duluth	254	3,722	4,019	4,023	3,952	0	774	0	3,178	0
Rensselaer Polytechnic Institute	255	2,903	3,609	4,483	3,934	0	3,934	0	0	0
U. Memphis	256	4,686	4,013	3,520	3,928	0	2,036	1,812	0	80
Alcorn State U.	257	4,915	4,833	4,090	3,883	3,626	0	257	0	0
U. Detroit Mercy	258	4,308	4,728	4,002	3,709	0	3,709	0	0	0
Duquesne U.	259	3,954	3,265	3,359	3,706	0	849	2,857	0	0
Illinois State U.	260	1,715	2,873	2,405	3,685	138	2,649	898	0	0
Southern U. and A&M C., Agricultural Research and Extension Center	261	3,057	3,057	2,085	3,588	3,448	140	0	0	0
Central State U.	262	1,500	1,674	2,444	3,552	3,195	164	0	74	119
Alabama A&M U.	263	6,853 i	4,847 i	3,305 i	3,508 i	223 i	1,130 i	2,068 i	87 i	0 i
Kentucky State U.	264	5,099	4,398	4,299	3,506	3,506	0	0	0	0
Clark Atlanta U.	265	4,134	3,859	3,468	3,496	0	3,496	0	0	0
U. New England	266	4,227	4,189	4,383	3,453	0	2,715	718	20	0
U. Missouri, Saint Louis	267	3,079	3,773	3,833	3,443	0	1,238	2,097	108	0
Oakland U.	268	2,732	3,351	2,266	3,422	0	1,710	232	0	1,480
Virginia State U.	269	3,852	4,100	3,775	3,350	3,122	38	190	0	0
U. Denver	270	2,061	2,505	2,721	3,327	0	3,273	0	54	0
California State U., Northridge	271	6,478	8,190	5,678	3,292	0	2,938	0	0	354
Old Dominion U.	272	5,535	4,018	4,053	3,286	0	1,749	1,537	0	0
U. Puerto Rico, Rio Piedras	273	1,739	2,968	2,911	3,247	0	3,234	13	0	0
California Polytechnic State U., San Luis Obispo	274	3,225	3,672	2,989	3,178	519	464	2,014	181	0
Miami U.	275	4,355	4,944	4,845	3,131	0	1,968	1,133	0	30
U. Hawaii, Hilo	276	3,364	2,996	2,989	3,113	933	657	918	253	352
Texas Southern U.	277	1,843	1,851	3,925	3,112	0	2,518	0	0	594
U. Arkansas, Pine Bluff	278	3,240	3,947	3,975	3,065	2,978	0	0	0	87
Arkansas State U., Jonesboro	279	3,126	3,346	3,344	2,909	838	2,071	0	0	0
Texas A&M U.-Corpus Christi	280	3,552	4,889	4,521	2,899	114	2,629	0	115	41

TABLE 43

**Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2021 life sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Langston U.	281	7,111	6,300	8,473	2,873	1,929	510	434	0	0
U. North Carolina, Wilmington	282	2,532	3,558	3,327	2,861	19	1,804	129	909	0
U. North Texas, Denton	283	2,626	2,969	2,446	2,767	540	1,789	209	52	177
Jackson State U.	284	1,824	1,686	1,848	2,686	0	591	2,095	0	0
California State U., Long Beach	285	4,183	4,444	3,635	2,651	0	947	1,704	0	0
U. North Carolina, Charlotte	286	2,044	2,720	2,239	2,589	0	2,035	554	0	0
U.S. Military Academy	287	720	578	295	2,574	0	1,250	1,324	0	0
Winston-Salem State U.	288	884	650	2,043	2,515	0	189	2,326	0	0
MGH Institute of Health Professions	289	2,957	3,494	3,014	2,500	0	1,300	1,200	0	0
U. Central del Caribe	290	2,937	2,705	2,743	2,492	0	0	2,492	0	0
Colorado School of Mines	291	1,721	1,799	1,784	2,479	310	1,927	242	0	0
Mercer U.	292	1,969	1,677	1,912	2,344	0	0	1,892	0	452
Alabama State U.	293	2,434	2,577	1,989	2,265	0	2,265	0	0	0
Long Island U.	294	1,338	1,397	1,161	2,207	0	30	2,177	0	0
California State U., Monterey Bay	295	2,797	2,695	2,140	2,186	231	1,817	138	0	0
Murray State U.	296	1,317	2,201	1,539	2,159	42	2,117	0	0	0
Western Illinois U.	297	905	1,089	1,636	2,152	1,878	274	0	0	0
SUNY, C. of Optometry	298	1,944	1,823	1,688	2,105	0	0	2,105	0	0
Xavier U. Louisiana	299	2,606	1,890	2,371	2,040	0	354	1,686	0	0
Idaho State U.	300	1,990	1,624	1,949	2,035	0	1,847	188	0	0
U. Arkansas, Little Rock	301	1,330	1,693	2,187	1,978	0	1,955	21	2	0
Western Michigan U. and Homer Stryker M.D. School of Medicine	302	2,299	2,063	2,291	1,972	0	1,855	117	0	0
California State U., Fullerton	303	2,053	2,270	1,896	1,943	136	1,577	192	38	0
Oklahoma State U., Center for Health Sciences	304	959	851	2,469	1,934	0	70	1,864	0	0
Albany C. of Pharmacy and Health Sciences	305	1,092	1,690	1,938	1,900	0	1,856	44	0	0
U. of the District of Columbia	306	916	1,083	235	1,896	1,568	63	0	0	265
U. Wisconsin-Superior	307	1,884	1,498	1,343	1,800	0	0	0	1,800	0
Palmer C. of Chiropractic, Davenport	308	1,100	1,100	1,400	1,733	0	0	0	0	1,733
Tougaloo C.	308	2,012	1,444	1,741	1,733	0	501	1,232	0	0
U. Puerto Rico, Mayaguez	310	968	1,777	1,426	1,729	864	865	0	0	0
Hampton U.	311	1,290	1,777	1,745	1,685	0	872	813	0	0

TABLE 43

## Federally financed higher education R&amp;D expenditures in the life sciences, ranked by all FY 2021 life sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Eastern Michigan U.	312	330	1,349	2,234	1,677	0	467	1,073	137	0
Teachers C., Columbia U.	313	1,293	1,525	1,856	1,660	0	0	0	0	1,660
SUNY, Binghamton U.	314	2,480	2,526	2,273	1,649	0	752	897	0	0
William & Mary	315	1,663	1,585	1,499	1,635	403	1,232	0	0	0
Southern Illinois U., Edwardsville	316	748	1,171	1,232	1,631	49	467	1,115	0	0
New England C. of Optometry	317	837	928	785	1,623	0	0	1,623	0	0
Tennessee Technological U.	318	454	1,092	1,282	1,621	73	1,010	78	460	0
Bates C.	319	506	720	1,128	1,610	0	1,511	0	0	99
California State Polytechnic U., Pomona	320	1,344	1,279	1,692	1,607	391	1,216	0	0	0
Fisk U.	321	2,162	4,473	3,585	1,579	0	1,579	0	0	0
Florida Institute of Technology	322	878	965	423	1,574	211	538	460	2	363
U. Wisconsin-Stevens Point	323	1,478	i 1,768	i 2,058	1,573	536	2	0	1,035	0
Texas Tech U., Health Sciences Center, El Paso	324	2,489	2,238	1,675	1,566	0	549	1,017	0	0
St. John's U., New York	325	1,323	1,284	1,375	1,541	0	898	643	0	0
Midwestern U.	326	1,278	1,045	936	1,502	22	775	705	0	0
U. Colorado Denver <sup>C</sup>	327	na	na	na	1,487	0	942	422	106	17
Wellesley C.	328	1,032	1,179	1,326	1,418	0	1,418	0	0	0
South Carolina State U.	329	6,129	i 1,318	i 1,367	i 1,416	i 0	i 1,217	i 199	i 0	i 0
Georgia Southern U.	330	1,057	1,024	681	1,414	22	338	493	145	416
Missouri State U.	331	1,115	1,070	1,349	1,411	465	517	0	429	0
SUNY, Polytechnic Institute	332	1,840	1,406	1,297	1,408	0	1,233	175	0	0
St. Edward's U.	333	759	2,150	1,575	1,400	150	800	0	450	0
Middle Tennessee State U.	334	907	972	1,080	1,394	475	766	12	141	0
Touro U.	335	1,410	1,540	1,546	1,375	0	537	0	0	838
Northern Kentucky U.	336	130	420	552	1,374	0	330	1,044	0	0
Southern Methodist U.	337	979	1,283	1,061	1,365	0	1,365	0	0	0
CUNY, Brooklyn C.	338	1,447	1,842	i 1,919	1,341	0	1,341	0	0	0
Ball State U.	339	1,138	1,120	1,315	1,336	0	727	608	1	0
Pacific U.	340	1,257	2,366	1,597	1,288	0	76	1,212	0	0
Pennsylvania State U., Harrisburg	341	76	25	381	1,278	21	18	1,239	0	0
Yeshiva U.	342	683	380	486	1,256	0	0	1,256	0	0
Catholic U. of America	343	2,277	2,174	1,660	1,255	0	968	287	0	0

TABLE 43

**Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2021 life sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Reed C.	344	895	1,031	1,180	1,252	0	1,252	0	0	0
Colorado State U., Pueblo	345	ne	1,220	1,108	1,248	0	1,248	0	0	0
U. Louisiana, Monroe	346	1,497	1,393	1,788	1,232	0	298	934	0	0
Sam Houston State U.	347	255	533	637	1,212	343	869	0	0	0
Hawaii Pacific U.	348	1,235	1,159	1,224	1,211	654	557	0	0	0
Naval Postgraduate School	349	1,244	1,939	1,655	1,209	0	501	270	0	438
Bowling Green State U.	350	332	478	652	1,140	163	631	294	52	0
Saginaw Valley State U.	351	868	1,278	1,083	1,137	0	0	1,137	0	0
U. Nebraska, Kearney	352	800	936	1,035	1,126	125	545	218	238	0
New York Institute of Technology	353	684	2,194	981	1,118	0	227	891	0	0
Montclair State U.	354	1,151	1,053	1,323	1,115	0	861	216	38	0
Northeastern Illinois U.	355	1,343	1,325	1,122	1,111	27	351	724	0	9
Northern Illinois U.	356	883	601	401	1,088	0	646	336	106	0
Worcester Polytechnic Institute	357	1,257	1,087	954	1,065	0	1,065	0	0	0
San Jose State U.	358	831	1,005	1,268	1,047	0	1,047	0	0	0
Rhode Island C.	359	466	555	504	1,043	0	1,021	22	0	0
James Madison U.	360	503	698	618	1,031	0	952	19	60	0
Humboldt State U.	361	1,564	1,556	1,636	1,020	64	151	0	802	3
Bowdoin C.	362	1,120	1,083	869	1,002	0	1,002	0	0	0
Middlebury C.	363	831	296	483	999	0	999	0	0	0
Western Carolina U.	364	259	682	750	998	106	205	687	0	0
Texas Woman's U.	365	304	604	805	991	0	123	868	0	0
Indiana U. Pennsylvania	366	568	869	667	989	0	989	0	0	0
U. Texas of the Permian Basin	367	0	ne	328	962	0	962	0	0	0
Villanova U.	368	435	338	358	960	0	562	398	0	0
Florida Gulf Coast U.	369	51	73	636	954	0	62	892	0	0
U. North Carolina, Asheville	370	568	590	797	953	0	14	939	0	0
Keck Graduate Institute	371	705	781	806	940	0	392	548	0	0
U. of the Sciences Philadelphia	372	827	820	808	900	0	499	401	0	0
Clark U.	373	682	1,553	1,502	898	215	649	0	0	34
Barnard C.	374	436	356	489	897	135	762	0	0	0
C. Charleston	375	720	761	619	894	0	843	0	51	0

TABLE 43

**Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2021 life sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Western Kentucky U.	376	1,237	1,607	1,385	889	217	354	180	0	138
Trinity C., Hartford	377	341	886	903	885	0	884	0	0	1
Skidmore C.	378	1,217	1,070	799	873	0	330	543	0	0
Michigan Technological U.	379	1,650	1,714	1,300	859	0	672	187	0	0
CUNY, C. Staten Island	380	145	177	377	849	0	347	502	0	0
Grand Valley State U.	381	320	845	935	784	0	303	481	0	0
Morehead State U.	382	193	601	223	782	13	721	0	48	0
U. Texas, Tyler	383	489	604	677	781	0	540	222	19	0
Smith C.	384	1,270	1,017	881	775	0	687	79	9	0
California State U., East Bay	385	ne	ne	212	773	0	291	482	0	0
Rochester Institute of Technology	386	590	594	668	763	0	763	0	0	0
Elizabeth City State U.	387	1	ne	428	751	0	751	0	0	0
CUNY, Baruch C.	388	261	284	117	749	0	749	0	0	0
U. Alaska, Southeast	389	819	625	521	745	0	710	0	35	0
U. Colorado Colorado Springs	390	547	441	705	741	0	718	0	0	23
U. North Florida	391	390	307	310	720	0	720	0	0	0
Fordham U.	392	996	995	883	717	0	717	0	0	0
U. West Florida	393	317	296	548	703	0	679	11	0	13
California State U., Stanislaus	394	469	514	752	702	0	702	0	0	0
California State U., Fresno	395	1,749	1,010	823	698	255	440	0	0	3
Stephen F. Austin State U.	396	568	590	619	680	680	0	0	0	0
Franklin and Marshall C.	397	565	593	502	676	0	584	92	0	0
Black Hills State U.	398	418	489	691	650	0	648	0	2	0
Kennesaw State U.	399	704	722	933	636	0	609	27	0	0
Spelman C.	400	684	536	624	633	0	484	149	0	0
Hobart and William Smith Colleges	401	ne	700	730	630	0	37	0	593	0
U. Wisconsin-Oshkosh	401	643	639	635	630	0	630	0	0	0
U. Northern Colorado	403	880	600	549	622	0	457	35	0	130
Seton Hall U.	404	724	810	138	607	0	607	0	0	0
U. of the Pacific	405	1,099	953	654	606	0	434	172	0	0
U. Richmond	406	599	708	648	604	0	604	0	0	0
U. of the Incarnate Word	407	160	576	545	597	0	81	516	0	0

TABLE 43

## Federally financed higher education R&amp;D expenditures in the life sciences, ranked by all FY 2021 life sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
U. Tennessee, Chattanooga	408	429	564	552	594	0	594	0	0	0
Wesleyan U.	409	682	954	382	581	0	581	0	0	0
Clarkson U.	410	960	636	496	565	0	565	0	0	0
Louisiana Tech U.	411	595	608	619	562	362	194	6	0	0
Mercyhurst U.	412	ne	498 i	514 i	559 i	0 i	233 i	326 i	0 i	0 i
Doane U.	413	516	498	514 i	555 i	0 i	555 i	0 i	0 i	0 i
California State U., Los Angeles	414	1,794	2,205	1,747	554	0	319	235	0	0
U. South Carolina, Aiken	414	904	610	870	554	0	554	0	0	0
U. Akron	416	527	793	837	550	0	397	153	0	0
Augustana U.	417	606	483	ne	546	0	0	546	0	0
Edward Via C. of Osteopathic Medicine	418	195	749	566	537	0	0	537	0	0
U. Dayton	419	765	676	542	529	0	163	195	171	0
Amherst C.	420	610	757	608	527	0	527	0	0	0
National U. of Natural Medicine	421	ne	760	912	523	0	0	523	0	0
Keene State C.	422	ne	549	966	510	0	510	0	0	0
Claflin U.	423	242	350	854	505	0	482	23	0	0
U. Wisconsin-Green Bay	424	301 i	452 i	490 i	487 i	0 i	172 i	315 i	0 i	0 i
Sul Ross State U.	425	504	330	463	486 i	0 i	0 i	0 i	486 i	0 i
U. Houston-Clear Lake	426	179	9	20	478	0	38	0	440	0
Appalachian State U.	427	649	486	465	473	45	371	53	4	0
U. Washington, Bothell	428	87	455	558	468	0	323	145	0	0
Dillard U.	429	4,404	920	502	464	0	70	181	0	213
Biola U.	430	382 i	410 i	423 i	459 i	0 i	192 i	267 i	0 i	0 i
Calvin U.	431	426	449	431 i	457 i	0 i	457 i	0 i	0 i	0 i
Northland C.	432	ne	ne	ne	450 i	0 i	437 i	0 i	13 i	0 i
Johnson C. Smith U.	433	380	362	412	437 i	0 i	0 i	261 i	81 i	95 i
Mount Holyoke C.	434	20	87	333	434	0	376	0	58	0
Southeastern Louisiana U.	435	572	422	473	429	0	290	139	0	0
Swarthmore C.	436	379	468	439	428	0	428	0	0	0
DePaul U.	437	404	299	313	423	0	281	0	0	142
Williams C.	438	312	413	396 i	420 i	0 i	420 i	0 i	0 i	0 i
West Virginia School of Osteopathic Medicine	439	ne	ne	414	418	0	59	359	0	0



TABLE 43

**Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2021 life sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Eastern Washington U.	440	580	484	391	414	0	188	6	220	0
Dordt U.	441	ne	ne	ne	412	6	406	0	0	0
Austin Peay State U.	442	328	88	410	411	0	50	0	361	0
Santa Clara U.	443	329	456	503	410	0	356	4	50	0
Hope C.	444	408	407	282	408	0	408	0	0	0
National Defense U.	445	0	0	200	400	0	400	0	0	0
U. Wisconsin-La Crosse	446	774	492	402	397	0	397	0	0	0
Southern U. and A&M C., Baton Rouge	447	352	401	336	395	17	261	17	100	0
U. Central Arkansas	448	285	263	357	386	0	303	83	0	0
Hofstra U.	449	311	360	308	385	0	358	0	27	0
California State U., Sacramento	450	279	294	434	379	0	126	0	253	0
Roger Williams U.	451	143	178	166	378	11	367	0	0	0
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	452	201	191	342	376	0	354	22	0	0
Gallaudet U.	453	811	408	383	372	3	0	368	1	0
U.S. Air Force Academy	454	0	140	0	369	0	317	19	33	0
Occidental C.	455	242	657	289	367	88	279	0	0	0
Willamette U.	455	368	143	35	367	0	367	0	0	0
Saint Joseph's U.	457	103	116	460	362	0	362	0	0	0
Lamar U.	458	53	440	221	357	0	0	0	0	357
Bucknell U.	459	305	245	361	354	0	354	0	0	0
Fort Lewis C.	460	ne	538	240	353	0	352	0	1	0
Eastern Kentucky U.	461	498	547	378	349	0	335	14	0	0
C. New Jersey	462	352	ne	328	347	0	347	0	0	0
Marshall B. Ketchum U.	463	354	336	323	343	0	0	343	0	0
U. California, Office of the President	464	313	319	217	342	138	0	191	0	13
Texas Christian U.	465	1,431	850	228	341	25	138	178	0	0
Colgate U.	466	293	246	84	331	0	331	0	0	0
U. Alabama, Huntsville	467	561	681	622	330	9	300	0	0	21
U. Tulsa	467	349	357	295	330	0	330	0	0	0
Towson U.	469	388	503	374	323	0	305	18	0	0
Philadelphia C. of Osteopathic Medicine	470	260	346	422	318	0	318	0	0	0

TABLE 43

## Federally financed higher education R&amp;D expenditures in the life sciences, ranked by all FY 2021 life sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Harvey Mudd C.	471	178	323	444	316	0	316	0	0	0
U. Puerto Rico, Cayey	471	10	45	604	316	0	145	169	2	0
California State U., San Marcos	473	1,767	1,011	896	311	0	197	100	0	14
CUNY, New York City C. of Technology	473	618	487	394	311	0	311	0	0	0
Providence C.	473	543	469	347	311	0	283	28	0	0
West Chester U. Pennsylvania	476	309	540	410	310	0	240	70	0	0
Furman U.	477	376	328	356	307	0	281	26	0	0
Montana Technological U.	478	483	478	339	305	0	305	0	0	0
U. Central Oklahoma	479	270	291	288	302	0	240	62	0	0
Minnesota State U., Mankato	480	95	136	205	300	0	300	0	0	0
Pace U.	481	193	477	753	298	0	288	10	0	0
Sonoma State U.	481	ne	ne	178	298	0	169	12	117	0
American U.	483	439	605	531	292	0	282	0	0	10
Des Moines U.	484	732	657	265	286	282	4	0	0	0
Pepperdine U.	485	279	303	121	282	0	282	0	0	0
SUNY, C. Plattsburgh	486	681	373	429	279	0	0	279	0	0
Claremont McKenna C.	487	364	337	396	274	0	274	0	0	0
U. Massachusetts, central office	488	246	198	403	272	0	0	272	0	0
Savannah State U.	489	581	320	234	268	0	3	178	0	87
California State U., Chico	490	395	458	380	267	156	111	0	0	0
U. Oklahoma, Tulsa	491	864	496	493	260	0	0	260	0	0
Davidson C.	492	240	272	200	259	0	259	0	0	0
Lewis and Clark C.	493	459	526	538	258	0	258	0	0	0
Pittsburg State U.	493	155	297	306	258	0	109	7	142	0
Stockton U.	495	138	50	85	247	0	0	25	152	70
U. New Orleans	496	200	108	148	245	0	215	0	30	0
New Mexico Institute of Mining and Technology	497	226	387	255	244	0	244	0	0	0
Loyola Marymount U.	498	105	310	261	243	0	243	0	0	0
U. Hawaii, Maui C.	499	ne	ne	ne	241	0	241	0	0	0
U. Washington, Tacoma	499	241	385	161	241	0	203	0	38	0
West Texas A&M U.	501	382	313	409	236	72	0	0	164	0
Albany State U.	502	509	737	445	232	0	94	0	39	99

TABLE 43

**Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2021 life sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
U. Ana G. Mendez, Gurabo	503	274	347	556	230	0	120	0	0	110
Fort Hays State U.	504	ne	322	388	226	0	226	0	0	0
Colby C.	505	613	581	289	217	0	186	0	0	31
Coastal Carolina U.	506	277	268	157	216	0	75	0	0	141
Troy U.	506	ne	ne	269	216	99	37	0	80	0
U. Michigan, Dearborn	508	248	172	283	215	0	75	140	0	0
Oberlin C.	509	265	815	252	214	0	214	0	0	0
SUNY, C. Brockport	510	667	360	444	213	0	61	0	152	0
U. Massachusetts, Dartmouth	511	903	621	253	211	0	211	0	0	0
William Paterson U.	512	23	32	103	210	0	201	9	0	0
Pomona C.	513	95	81	180	202	0	202	0	0	0
California State U., San Bernardino	514	1,034	1,055	435	199	0	93	0	106	0
Bryn Mawr C.	515	298	212	100	194	0	194	0	0	0
Ithaca C.	516	ne	ne	408	187	0	109	78	0	0
Trinity U.	517	115	95	296	184	0	184	0	0	0
New Mexico Highlands U.	518	0	ne	170	178	0	120	0	58	0
Pennsylvania State U., Behrend	519	15	17	15	176	17	0	0	159	0
Western Washington U.	520	270	249	243	175	0	175	0	0	0
Texas A&M U.-Commerce	521	91	15	26	165	165	0	0	0	0
Marymount U.	522	ne	ne	ne	163	0	0	163	0	0
Northern Michigan U.	522	89	184	127	163	0	73	0	90	0
Purdue U., Northwest	524	125	110	176	155	0	28	127	0	0
St. Olaf C.	525	97	68	40	147	0	102	0	0	45
CUNY, Lehman C.	526	892	0	136	146	0	78	68	0	0
U. Wisconsin-Platteville	527	ne	118	117	145	45	53	34	13	0
California State U., Channel Islands	528	107	64	151	143	0	0	141	2	0
U. Southern Maine	528	131	28	94	143	64	63	14	2	0
Central Washington U.	530	254	206	198	128	0	122	0	6	0
Southern Connecticut State U.	530	194	212	141	128	47	16	54	11	0
Drake U.	532	66	52	ne	123	0	8	45	70	0
Oregon Institute of Technology	532	59	90	67	123	0	66	42	15	0
U. of Mary Washington	534	7	64	85	119	0	119	0	0	0

TABLE 43

## Federally financed higher education R&amp;D expenditures in the life sciences, ranked by all FY 2021 life sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Carleton C.	535	42	108	82	115	0	115	0	0	0
U. of St. Thomas (MN)	536	174	196	242	113	0	113	0	0	0
U. Puerto Rico, Humacao	537	233	286	255	111	0	86	0	25	0
U. Virginia's C. Wise	537	ne	ne	ne	111	0	111	0	0	0
Eastern Connecticut State U.	539	17	169	177	108	1	107	0	0	0
Northwest Indian C.	539	1,164	104	103	108	108	0	0	0	0
Winthrop U.	541	235	359	465	103	0	103	0	0	0
Haverford C.	542	292	133	109	98	0	95	3	0	0
Central Connecticut State U.	543	ne	31	73	97	0	97	0	0	0
Colorado C.	543	51	115	20	97	0	1	0	96	0
Missouri U. of Science and Technology	543	152	143	130	97	0	97	0	0	0
Bowie State U.	546	75	122	414	96	0	96	0	0	0
Arcadia U.	547	ne	ne	ne	94	0	0	94	0	0
CUNY, Graduate Center	548	34	46	87	92	0	92	0	0	0
St. Cloud State U.	549	312	386	126	91	85	6	0	0	0
Morehouse C.	550	119	116	120	90	0	90	0	0	0
Connecticut C.	551	192	95	48	89	0	89	0	0	0
Norfolk State U.	552	53	108	114	88	0	88	0	0	0
Salisbury U.	552	77	4	32	88	0	88	0	0	0
Vassar C.	554	60	13	16	87	0	87	0	0	0
C. Wooster	555	193	110	81	86	5	81	0	0	0
Hamilton C.	555	12	51	26	86	0	86	0	0	0
Indiana State U.	555	430	502	339	86	0	78	8	0	0
Stevens Institute of Technology	558	83	33	3	83	0	83	0	0	0
Dakota State U.	559	0	0	48	80	80	0	0	0	0
Citadel Military C. South Carolina	560	ne	ne	49	77	0	77	0	0	0
U. Hartford	560	10	38	101	77	0	0	77	0	0
SUNY, Oswego	562	220	218	190	72	0	72	0	0	0
CUNY, York C.	563	ne	340	450	71	0	71	0	0	0
Christopher Newport U.	564	101	132	160	70	0	70	0	0	0
Texas A&M International U.	565	1,814	1,710	123	65	0	65	0	0	0
California State U., Bakersfield	566	396	92	70	61	8	53	0	0	0

TABLE 43

**Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2021 life sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
California State U., Dominguez Hills	566	236	162	81	61	61	0	0	0	0
SUNY, Geneseo	566	80	150	58	61	0	61	0	0	0
Lafayette C.	569	50	80	50	55	0	55	0	0	0
Roseman U. of Health Sciences	570	18	37	56	53	0	0	53	0	0
CUNY, John Jay C. of Criminal Justice	571	500	156	48	48	0	43	5	0	0
U. Northern Iowa	571	115	122	129	48	48	0	0	0	0
U. Wisconsin-River Falls	571	95	ne	110	48	32	16	0	0	0
Liberty U.	574	ne	385	44	45	0	45	0	0	0
U. New Haven	574	56	30	9	45	0	25	11	9	0
Purdue U., Fort Wayne	576	448	122	117	44	0	44	0	0	0
Azusa Pacific U.	577	111	49	116	42	0	0	42	0	0
U. Michigan, Flint	577	8	9	118	42	0	0	42	0	0
U. Wisconsin-Eau Claire	577	30	35	30	42	0	42	0	0	0
Elon U.	580	0	0	16	39	0	39	0	0	0
U. North Georgia	580	2	92	91	39	0	31	0	8	0
CUNY, system office	582	0	3	84	37	0	37	0	0	0
New School	583	9	0	12	35	0	27	8	0	0
Desert Research Institute	584	246	188	43	33	0	33	0	0	0
Suffolk U.	584	ne	ne	29	33	0	33	0	0	0
Jacksonville State U.	586	11	14	16	31	0	31	0	0	0
Fayetteville State U.	587	1,354	1,236	408	30	0	30	0	0	0
Alaska Pacific U.	588	100	216	38	29	29	0	0	0	0
Seattle U.	588	138	116	86	29	4	25	0	0	0
SUNY, Buffalo State	588	207	188	176	29	0	29	0	0	0
U. San Diego	591	68	44	65	28	0	19	9	0	0
C. of Saint Benedict	592	0	0	0	24	0	14	10	0	0
Youngstown State U.	593	0	0	0	20	0	0	20	0	0
U. San Francisco	594	24	19	0	19	0	19	0	0	0
Kean U.	595	ne	ne	0	18	0	0	0	0	18
Wheaton C., Wheaton	595	27	137	142	18	0	0	18	0	0
Grinnell C.	597	221	41	29	17	0	17	0	0	0
Monmouth U.	598	ne	0	0	16	0	0	0	16	0

TABLE 43

**Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2021 life sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
U. North Carolina, general administration	599	49	24	0	12	0	0	0	0	12
Macalester C.	600	79	108	121	10	0	10	0	0	0
Union C., Schenectady	601	29	14	13	4	0	4	0	0	0
U. Illinois, Springfield	602	0	0	0	1	0	0	1	0	0
All other surveyed institutions	-	683,026	371,483	339,427	0	0	0	0	0	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

nec = not elsewhere classified.

<sup>a</sup> Johns Hopkins University includes the Applied Physics Laboratory, with \$34,212 thousand in federally financed R&D expenditures in life sciences in FY 2021.

<sup>b</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

<sup>c</sup> The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

<sup>d</sup> The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

<sup>e</sup> The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

**Note(s):**

Institutions reporting zero expenditures in ranked total for FY 2021 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 44

**Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2021 agricultural sciences and natural resources conservation total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total						Federally financed					
		Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation	Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation
		2018	2019	2020	2021	2021	2021	2018	2019	2020	2021	2021	2021
All institutions	-	4,086,777	4,268,650	4,527,115	4,483,661	3,548,896	934,765	1,271,046	1,359,731	1,484,601	1,529,490	1,099,585	429,905
U. Florida	1	195,362	203,199	233,690	228,232	210,062	18,170	40,329	47,246	61,814	57,900	52,672	5,228
Texas A&M U., College Station and Health Science Center	2	190,226	197,366	200,508	195,660	180,671	14,989	44,092	50,436	52,021	52,146	42,991	9,155
Colorado State U., Fort Collins	3	68,172	123,760	163,384	187,752	50,785	136,967	39,558	85,722	114,462	129,050	17,728	111,322
U. Illinois, Urbana- Champaign	4	122,775	131,139	161,358	162,189	70,763	91,426	39,805	49,187	65,375	65,980	23,746	42,234
U. California, Davis	5	155,642	153,739	150,069	143,311	143,311	0	32,921	34,738	34,067	32,317	32,317	0
Michigan State U.	6	151,818	152,185	126,904	127,515	112,272	15,243	55,336	54,697	38,894	41,449	38,807	2,642
Cornell U.	7	129,201	138,182	139,521	123,927	106,374	17,553	32,841	36,625	37,466	35,393	32,441	2,952
Purdue U., West Lafayette	8	126,486	138,419	123,324	122,841	122,841	0	37,846	36,973	33,464	37,063	37,063	0
U. Minnesota, Twin Cities	9	109,175	116,791	129,207	122,668	71,646	51,022	25,879	26,814	34,793	35,744	24,629	11,115
U. Wisconsin- Madison	10	75,751	75,409	105,235	115,937	114,940	997	19,797	19,524	33,870	40,457	40,355	102
Mississippi State U.	11	105,102	109,892	106,989	114,811	98,866	15,945	28,006	30,989	32,121	36,694	30,757	5,937
Washington State U.	12	92,696	103,268	109,269	114,256	110,067	4,189	27,763	26,881	29,226	39,440	37,176	2,264
U. Georgia	13	87,780	100,059	122,712	114,117	113,627	490	30,145	30,966	32,666	30,083	30,083	0
North Carolina State U.	14	112,533	111,537	108,002	108,416	108,416	0	18,549	17,763	19,714	23,589	23,589	0
U. Nebraska, Lincoln	15	108,148	112,979	114,382	107,639	94,550	13,089	27,443	29,816	30,018	27,978	24,698	3,280

**TABLE 44**  
**Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2021 agricultural sciences and natural resources conservation total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total						Federally financed							
		Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation	Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation		
		2018	2019	2020	2021	2021	2021	2018	2019	2020	2021	2021	2021		
Virginia Polytechnic Institute and State U.	16	96,684	100,295	110,301	106,619	80,513	26,106	27,335	29,316	28,411	31,754	21,982	9,772		
U. Missouri, Columbia	17	83,389	86,027	84,797	99,983	86,679	13,304	23,448	22,881	24,267	29,409	23,336	6,073		
Oregon State U.	18	93,555	93,606	96,878	98,213	76,656	21,557	35,539	37,641	36,754	38,784	26,857	11,927		
Louisiana State U., Baton Rouge	19	75,245	76,202	97,776	97,527	88,218	9,309	9,274	9,992	18,499	21,161	18,185	2,976		
North Dakota State U.	20	81,580	82,904	87,874	92,492	82,590	9,902	10,765	9,164	10,228	13,243	11,713	1,530		
Kansas State U.	21	83,800	85,363	95,332	92,231	92,231	0	24,565	23,652	28,326	29,741	29,741	0		
Pennsylvania State U., University Park and Hershey Medical Center	22	101,090	96,302	101,950	88,295	79,424	8,871	37,751	37,565	39,389	26,615	26,181	434		
Ohio State U.	23	61,032	62,584	78,240	78,004	68,969	9,035	20,534	22,364	34,209	35,592	31,002	4,590		
U. California, Berkeley	24	72,256	73,608	72,606	76,411	5,134	71,277	24,148	24,607	26,274	27,098	199	26,899		
Auburn U., Auburn	25	58,627	55,586	73,703	71,120	70,134	986	12,367	12,167	14,290	19,288	18,928	360		
U. Arkansas, Fayetteville	26	68,912	72,044	67,999	69,390	67,267	2,123	12,676	13,421	13,186	11,376	11,119	257		
Rutgers, State U. New Jersey, New Brunswick	27	47,795	55,587	77,439	64,908	64,885	23	28,189	27,297	24,468	31,252	31,252	0		
U. Kentucky	28	68,360	62,898	69,756	63,522	63,522	0	15,775	13,561	13,703	13,036	13,036	0		
U. Arizona	29	57,804	64,228	63,861	63,062	50,582	12,480	16,560	20,132	20,111	19,584	13,626	5,958		
U. Maryland <sup>a</sup>	30	na	65,185	54,930	54,140	51,847	2,293	na	31,021	24,881	24,472	23,474	998		
Iowa State U.	31	66,427	67,222	51,947	51,837	51,837	0	22,454	20,865	24,024	21,142	21,142	0		



TABLE 44

**Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2021 agricultural sciences and natural resources conservation total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total						Federally financed							
		Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation	Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation		
		2018	2019	2020	2021	2021	2021	2018	2019	2020	2021	2021	2021		
U. Tennessee, Knoxville <sup>b</sup>	32	133	137	51,999	49,803	41,632	8,171	0	0	15,842	14,186	10,090	4,096		
U. Idaho	33	51,255	51,993	50,957	48,205	34,593	13,612	16,203	17,193	16,228	15,947	10,658	5,289		
Utah State U.	34	53,684	54,897	48,834	46,361	31,043	15,318	22,532	23,462	21,159	20,644	12,527	8,117		
Oklahoma State U., Stillwater	35	35,797	47,191	46,936	45,875	36,223	9,652	3,467	8,452	9,060	10,370	7,231	3,139		
Montana State U., Bozeman	36	38,318	40,480	40,881	44,174	43,975	199	8,331	11,189	12,020	14,586	14,504	82		
Texas Tech U.	37	32,593	31,174	31,317	36,386	30,966	5,420	3,171	2,939	2,685	3,403	2,558	845		
South Dakota State U.	38	36,049	39,655	41,442	32,467	30,114	2,353	10,460	13,850	11,921	7,918	6,665	1,253		
New Mexico State U.	39	28,609	31,401	31,700	32,291	32,281	10	6,412	8,008	7,867	7,532	7,523	9		
U. Delaware	40	27,344	29,062	32,048	30,290	30,290	0	6,739	8,129	8,759	9,280	9,280	0		
U. Maine	41	27,061	27,537	28,023	28,286	17,566	10,720	12,443	13,365	14,264	14,578	8,506	6,072		
U. Vermont	42	19,587	16,668	23,292	27,833	21,096	6,737	10,857	7,045	10,687	14,122	12,330	1,792		
U. Washington, Seattle	43	28,894	25,620	25,393	26,338	277	26,061	17,313	13,468	13,552	14,570	0	14,570		
U. Massachusetts, Amherst	44	19,423	18,524	23,951	24,423	17,175	7,248	10,141	9,335	13,918	14,403	10,740	3,663		
U. New Hampshire	45	22,317	22,422	25,849	23,015	16,303	6,712	14,809	9,797	13,460	12,790	8,252	4,538		
U. California, Riverside	46	19,160	22,199	21,969	22,645	22,645	0	4,930	5,489	6,876	8,249	8,249	0		
West Virginia U.	47	23,351	23,859	23,438	22,267	13,321	8,946	8,788	8,696	9,298	9,364	5,139	4,225		
Clemson U.	48	23,563	24,183	23,702	21,945	21,938	7	6,461	6,713	6,920	6,629	6,629	0		
U. Texas M. D. Anderson Cancer Center	49	0	0	22,868	21,748	21,748	0	0	0	8,112	7,306	7,306	0		

**TABLE 44**  
**Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2021 agricultural sciences and natural resources conservation total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total						Federally financed							
		Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation	Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation		
		2018	2019	2020	2021	2021	2021	2018	2019	2020	2021	2021	2021		
U. Montana, Missoula	50	16,488	17,211	18,646	20,918	522	20,396	8,872	8,856	8,806	10,599	183	10,416		
U. Michigan, Ann Arbor	51	22,338	23,814	24,512	20,106	2,142	17,964	8,495	9,692	10,218	6,254	0	6,254		
U. Minnesota, Duluth	52	18,181	18,103	18,489	17,840	0	17,840	3,409	3,593	3,431	3,178	0	3,178		
North Carolina Agricultural and Technical State U.	53	16,218	15,671	15,051	17,606	14,708	2,898	6,899	6,070	5,490	7,280	4,736	2,544		
SUNY, C. of Environmental Science and Forestry	54	13,834	16,314	16,412	16,516	2,816	13,700	3,370	4,073	3,767	3,119	568	2,551		
U. Wyoming	55	14,331	23,815	23,104	16,213	8,607	7,606	8,453	15,768	16,085	11,557	5,122	6,435		
U. Hawaii, Manoa	56	16,823	16,788	15,802	15,585	14,116	1,469	8,052	7,688	8,710	7,780	6,687	1,093		
Texas A&M U.-Kingsville	57	13,610	15,316	15,336	14,955	14,886	69	3,324	4,350	4,788	3,595	3,595	0		
Tennessee State U.	58	10,896	9,543	14,375	14,738	14,654	84	4,488	4,697	8,783	9,286	9,263	23		
U. Connecticut	59	12,197	12,984	11,816	14,299	10,683	3,616	4,187	4,634	5,443	5,293	3,267	2,026		
U. Nevada, Reno	60	12,534	12,216	14,600	13,288	6,648	6,640	5,220	4,520	6,336	6,121	3,561	2,560		
Southern Illinois U., Carbondale	61	11,463	10,934	11,793	13,088	13,088	0	2,604	2,946	3,684	3,720	3,720	0		
U. Alaska, Fairbanks	62	17,027	16,511	16,163	13,087	9,228	3,859	4,575	3,161	3,534	4,183	1,691	2,492		
Yale U.	63	12,498	11,773	11,175	11,340	0	11,340	6,526	5,609	5,185	4,948	0	4,948		
Duke U.	64	7,897	9,051	10,726	10,570	0	10,570	5,548	5,576	5,691	5,392	0	5,392		
Florida A&M U.	65	9,811	11,244	10,409	9,905	9,700	205	7,776	8,761	8,321	7,891	7,686	205		

**TABLE 44**  
**Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2021 agricultural sciences and natural resources conservation total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total						Federally financed							
		Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation	Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation		
		2018	2019	2020	2021	2021	2021	2018	2019	2020	2021	2021	2021		
U. Illinois, Chicago	66	5,009	7,486	10,840	9,173	0	9,173	744	883	1,364	1,074	0	1,074		
U. Guam	67	5,838	6,611	7,112	8,631	3,237	5,394	3,771	4,168	4,386	5,833	2,251	3,582		
Northern Arizona U.	68	6,524	6,576	8,781	8,626	2,169	6,457	2,195	3,163	4,431	4,387	577	3,810		
Princeton U.	69	5,555	8,634	10,766	8,592	0	8,592	822	2,189	3,286	2,012	0	2,012		
Kentucky State U.	70	8,599	8,139	7,806	8,546	8,546	0	5,092	4,398	4,299	3,506	3,506	0		
Harvard U.	71	4,370	3,435	3,028	8,049	26	8,023	2,350	2,135	1,884	5,613	0	5,613		
Central State U.	72	2,808	2,871	5,313	7,851	7,645	206	1,492	1,622	2,306	3,269	3,195	74		
Prairie View A&M U.	73	7,543	7,912	7,853	7,806	7,730	76	4,765	5,178	4,747	4,989	4,915	74		
U. California, Santa Barbara	74	9,162	7,124	6,761	7,716	0	7,716	2,041	994	639	777	0	777		
U. Maryland Center for Environmental Science	75	7,286	7,704	7,161	7,518	971	6,547	5,158	6,187	4,534	4,842	511	4,331		
Virginia State U.	76	6,767	6,814	5,920	6,918	6,918	0	3,807	4,029	3,572	3,122	3,122	0		
Lincoln U., Jefferson City	77	3,120	2,947	5,170	6,834	6,283	551	1,638	1,498	3,117	4,933	4,792	141		
U. Arkansas, Pine Bluff	78	6,848	7,621	7,218	6,740	6,740	0	3,104	3,746	3,820	2,978	2,978	0		
Tarleton State U.	79	6,209	6,470	5,716	6,607	6,338	269	4,016	4,293	3,519	3,983	3,831	152		
Alcorn State U.	80	8,690	8,578	7,810	6,532	6,532	0	4,728	4,752	3,983	3,626	3,626	0		
West Virginia State U.	81	3,483	3,551	4,327	6,412	5,801	611	2,650	2,576	2,792	4,093	3,482	611		
West Texas A&M U.	82	2,716	2,877	3,549	6,229	6,065	164	382	313	409	236	72	164		
Tuskegee U.	83	7,041	5,756	5,871	5,873	5,873	0	4,451	4,984	5,084	5,083	5,083	0		

TABLE 44

**Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2021 agricultural sciences and natural resources conservation total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total						Federally financed							
		Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation	Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation		
		2018	2019	2020	2021	2021	2021	2018	2019	2020	2021	2021	2021		
Southern U. and A&M C., Agricultural Research and Extension Center	84	5,296	4,541	3,515	5,104	4,822	282	3,057	3,057	2,085	3,448	3,448	0		
Fort Valley State U.	85	3,344	4,136	4,452	4,456	4,456	0	3,174	4,066	4,371	4,192	4,192	0		
Columbia U. in the City of New York	86	4,104	3,793	4,151	4,370	0	4,370	1,615	1,413	1,434	1,448	0	1,448		
Langston U.	87	8,851	8,768	10,615	4,333	4,333	0	5,953	5,274	5,245	1,929	1,929	0		
U. Rhode Island	88	1,909	2,546	3,400	4,211	4,209	2	959	1,254	1,970	2,105	2,105	0		
Humboldt State U.	89	4,917	5,983	5,673	4,142	85	4,057	1,187	1,313	1,028	866	64	802		
Georgia Institute of Technology	90	4,177	3,831	3,820	4,051	4,051	0	225	166	0	0	0	0		
Drexel U.	91	7,868	2,650	3,361	3,579	0	3,579	197	105	365	492	0	492		
U. Maryland, Eastern Shore	92	194	615	2,044	3,555	3,516	39	186	611	2,039	3,284	3,263	21		
U. Colorado Boulder	93	214	839	2,585	3,523	2,077	1,446	65	418	1,183	1,557	977	580		
U. Wisconsin-Stevens Point	94	3,284	3,681	4,080	3,509	857	2,652	1,463	1,750	2,037	1,571	536	1,035		
U. of the Virgin Islands	95	4,043	3,751	4,392	3,490	3,251	239	3,139	2,692	3,265	2,706	2,609	97		
Florida State U.	96	3,825	2,428	2,973	3,485	175	3,310	415	592	1,077	1,064	119	945		
Portland State U.	97	3,921	3,626	3,657	3,409	16	3,393	2,389	1,921	2,260	2,002	15	1,987		

TABLE 44

**Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2021 agricultural sciences and natural resources conservation total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total						Federally financed					
		Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation	Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation
		2018	2019	2020	2021	2021	2021	2018	2019	2020	2021	2021	2021
California Polytechnic State U., San Luis Obispo	98	2,649	4,861	4,021	3,273	2,514	759	738	807	544	700	519	181
U. Texas, Austin	99	7,686	1,550	2,584	3,261	69	3,192	1,911	488	1,016	1,252	22	1,230
U. California, Santa Cruz	100	3,052	2,724	3,247	3,252	3,252	0	6	85	159	144	144	0
Brigham Young U., Provo	101	2,766	2,583	2,559	3,186	3,186	0	1,542	1,274	1,090	1,746	1,746	0
Delaware State U.	102	6,186	6,824	3,090	3,147	2,426	721	3,750	3,414	2,032	2,336	1,615	721
California State U., Fresno	103	2,867	3,686	3,277	2,994	2,994	0	405	405	451	255	255	0
U. of the District of Columbia	104	1,626	2,538	2,157	2,726	2,726	0	738	1,083	235	1,568	1,568	0
U. New Mexico	105	3,635	4,418	3,768	2,636	14	2,622	2,341	2,810	2,230	1,168	10	1,158
U. Wisconsin-Superior	106	2,908	2,122	2,025	2,338	0	2,338	1,808	1,401	1,342	1,800	0	1,800
Cold Spring Harbor Laboratory	107	568	1,622	1,657	2,272	2,272	0	423	1,535	1,581	2,207	2,207	0
U. California, Office of the President	108	2,418	2,552	2,503	2,171	1,957	214	129	117	94	138	138	0
U. North Texas, Denton	109	0	213	479	2,137	2,085	52	0	189	136	592	540	52
Western Illinois U.	110	146	216	1,062	2,012	2,012	0	72	120	983	1,878	1,878	0
California State Polytechnic U., Pomona	111	1,751	1,381	838	2,002	2,002	0	335	287	327	391	391	0

**TABLE 44**  
**Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2021 agricultural sciences and natural resources conservation total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total							Federally financed						
		Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation	Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation		
		2018	2019	2020	2021	2021	2021	2018	2019	2020	2021	2021	2021		
U. North Carolina, Wilmington	112	2,464	2,019	1,818	1,934	584	1,350	1,072	794	846	928	19	909		
U. Hawaii, Hilo	113	1,671	1,574	1,245	1,886	1,575	311	1,150	835	711	1,186	933	253		
Stephen F. Austin State U.	114	1,533	1,804	1,695	1,882	1,882	0	564	589	619	680	680	0		
U. Kansas	115	7,908	6,528	9,641	1,779	0	1,779	2,817	3,368	4,658	1,042	0	1,042		
Florida International U.	116	2,940	2,604	2,156	1,771	5	1,766	1,631	1,881	1,495	1,126	2	1,124		
Sul Ross State U.	117	2,001	1,578	1,595	1,654	i 127	i 1,527	i 504	330	463	486	i 0	i 486		
Hobart and William Smith Colleges	118	ne	1,185	1,484	1,619	0	1,619	ne	618	691	593	0	593		
Boise State U.	119	529	1,202	1,184	1,608	603	1,005	251	807	783	1,042	418	624		
Tufts U.	120	3,280	1,048	5,539	1,450	1,450	0	1,960	197	2,693	1,073	1,073	0		
George Mason U.	121	628	402	800	1,437	168	1,269	239	290	269	691	129	562		
U. Texas Rio Grande Valley	122	791	1,121	1,324	1,434	1,404	30	576	894	1,145	1,360	1,330	30		
California State U., Monterey Bay	123	1,211	1,501	1,164	1,409	1,409	0	491	506	281	231	231	0		
Arkansas State U., Jonesboro	124	1,440	1,983	1,897	1,343	1,343	0	780	1,237	1,159	838	838	0		
California State U., Chico	125	899	759	1,224	1,233	1,233	0	179	166	210	156	156	0		
Florida Gulf Coast U.	126	55	36	128	1,218	0	1,218	0	22	42	0	0	0		
Missouri State U.	127	1,036	1,199	1,103	1,198	572	626	998	885	874	894	465	429		

**TABLE 44**  
**Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2021 agricultural sciences and natural resources conservation total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total						Federally financed							
		Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation	Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation		
		2018	2019	2020	2021	2021	2021	2018	2019	2020	2021	2021	2021		
U. Massachusetts, Boston	128	262	808	1,020	1,113	6	1,107	2	6	107	119	5	114		
Middle Tennessee State U.	129	433	640	558	1,094	953	141	273	362	481	616	475	141		
Stanford U.	130	3,797	3,933	1,983	1,074	0	1,074	407	1,197	1,161	861	0	861		
Austin Peay State U.	131	183	176	947	1,063	0	1,063	150	25	361	361	0	361		
Tennessee Technological U.	132	868	1,041	1,042	1,019	228	791	291	390	412	533	73	460		
San Francisco State U.	133	221	581	942	1,017	0	1,017	3	146	202	204	0	204		
U. Pennsylvania	134	945	926	1,140	1,003	1,003	0	200	150	25	6	6	0		
U. Louisiana, Lafayette	135	34	1,647	262	944	240	704	0	213	122	211	109	102		
U. Miami	136	2,353	1,403	791	911	0	911	1,410	1,025	603	632	0	632		
U. Alaska, Anchorage	137	938	482	1,246	878	0	878	235	177	761	799	0	799		
Central Michigan U.	138	348	192	881	873	9	864	289	98	481	527	0	527		
U. Maryland, Baltimore County	139	0	738	896	867	803	64	0	412	473	370	370	0		
U. Puerto Rico, Mayaguez	140	792	1,301	814	864	864	0	265	838	508	864	864	0		
Oregon Health and Science U.	141	0	0	799	838	0	838	0	0	799	744	0	744		
William & Mary	142	1,338	778	453	827	827	0	334	366	294	403	403	0		
Louisiana Tech U.	143	781	917	841	824	824	0	320	361	350	362	362	0		

TABLE 44

**Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2021 agricultural sciences and natural resources conservation total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total						Federally financed							
		Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation	Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation		
		2018	2019	2020	2021	2021	2021	2018	2019	2020	2021	2021	2021		
U. Nebraska, central administration	144	1,747	2,074	2,242	823	823	0	1,615	1,935	1,674	823	823	0		
U. Houston-Clear Lake	145	0	0	0	808	0	808	0	0	0	440	0	440		
Syracuse U.	146	1,040	1,104	859	790	0	790	891	837	727	613	0	613		
Baylor U.	147	440	576	666	744	323	421	204	131	200	368	230	138		
Dartmouth C. and Dartmouth Hitchcock Medical Center	148	1,482	949	813	691	0	691	997	602	605	543	0	543		
Hawaii Pacific U.	149	712	700	654	654	654	0	712	700	654	654	654	0		
Alabama A&M U.	150	1,172	925	630	645	504	141	592	419	285	310	223	87		
Georgia State U.	151	382	592	596	638	638	0	15	54	142	200	200	0		
U. Nebraska, Kearney	152	451	692	546	632	211	421	296	420	303	363	125	238		
St. Edward's U.	153	372	980	795	620	150	470	184	950	775	600	150	450		
U. Virginia, Charlottesville	154	98	391	769	614	0	614	0	0	0	0	0	0		
Illinois Institute of Technology	155	1,791	1,207	863	604	604	0	1,631	1,147	682	366	366	0		
Western U. of Health Sciences	156	367	492	533	597	597	0	210	430	456	493	493	0		
U. California, San Diego	157	0	0	0	593	0	593	0	0	0	0	0	0		
U. Southern Maine	158	768	750	611	591	442	149	9	12	12	66	64	2		
Loyola U., Chicago	159	724	616	483	579	0	579	506	470	249	328	0	328		



TABLE 44

**Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2021 agricultural sciences and natural resources conservation total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total							Federally financed						
		Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation	Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation		
		2018	2019	2020	2021	2021	2021	2018	2019	2020	2021	2021	2021		
U. Wisconsin-River Falls	160	79	ne	125	551	551	0	0	ne	64	32	32	0		
Arizona State U.	161	21	764	457	550	0	550	11	6	57	164	0	164		
Texas State U.	162	386	349	376	544	544	0	331	296	291	414	414	0		
SUNY, C. Brockport	163	783	557	886	537	8	529	363	167	153	152	0	152		
U. Oregon	164	947	778	483	531	0	531	793	659	406	363	0	363		
Sam Houston State U.	165	105	289	330	526	526	0	78	283	258	343	343	0		
Western Kentucky U.	166	545	548	581	525	525	0	237	334	430	217	217	0		
Pennsylvania State U., Behrend	167	70	49	0	509	125	384	0	0	0	176	17	159		
U. Pittsburgh, Pittsburgh	168	0	0	373	501	501	0	0	0	248	377	377	0		
Bowling Green State U.	169	97	463	553	498	312	186	49	81	154	215	163	52		
Oregon Institute of Technology	170	59	90	67	477	0	477	59	90	67	15	0	15		
Georgia Southern U.	171	0	120	323	467	81	386	0	73	59	167	22	145		
Texas A&M U.-Commerce	172	255	688	723	463	463	0	25	15	18	165	165	0		
Massachusetts Institute of Technology	173	3,370	3,005	1,370	457	79	378	88	71	0	0	0	0		
U. Houston	174	20	153	295	453	209	244	20	153	284	343	99	244		
U. Nevada, Las Vegas	175	49	194	273	446	212	234	42	149	185	309	199	110		

TABLE 44

**Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2021 agricultural sciences and natural resources conservation total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total						Federally financed							
		Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation	Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation		
		2018	2019	2020	2021	2021	2021	2018	2019	2020	2021	2021	2021		
U. Texas, Arlington	175	464	517	441	446	0	446	8	4	1	0	0	0		
Texas A&M U.-Corpus Christi	177	82	177	464	441	282	159	15	137	309	229	114	115		
Morgan State U.	178	435	139	224	416	416	0	214	68	25	75	75	0		
Southern Illinois U., Edwardsville	178	5,702	8,809	3,324	416	345	71	0	0	0	49	49	0		
Chapman U.	180	241	147	102	414	409	5	186	0	102	390	390	0		
Sonoma State U.	181	ne	ne	214	399	0	399	ne	ne	0	117	0	117		
Appalachian State U.	182	429	258	630	387	60	327	219	99	56	49	45	4		
California State U., Sacramento	183	353	286	321	371	0	371	264	268	309	253	0	253		
Montclair State U.	183	470	582	649	371	48	323	323	110	75	38	0	38		
Colorado School of Mines	185	29	288	392	366	310	56	29	288	146	310	310	0		
U. Utah	186	24,152	0	0	363	0	363	15,398	0	0	17	0	17		
U. North Carolina, Asheville	187	764	222	292	317	0	317	222	29	57	0	0	0		
CUNY, Advanced Science Research Center	188	0	805	869	312	0	312	0	703	785	284	0	284		
Clark U.	189	115	724	808	306	295	11	104	711	797	215	215	0		
U. South Florida <sup>c</sup>	190	0	0	0	303	0	303	0	0	0	272	0	272		

TABLE 44

**Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2021 agricultural sciences and natural resources conservation total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total						Federally financed					
		Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation	Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation
		2018	2019	2020	2021	2021	2021	2018	2019	2020	2021	2021	2021
U. Colorado Anschutz Medical Campus <sup>d</sup>	191	na	na	na	299	299	0	na	na	na	299	299	0
Florida Institute of Technology	192	0	0	0	297	234	63	0	0	0	213	211	2
Des Moines U.	193	0	0	261	282	282	0	0	0	261	282	282	0
Old Dominion U.	194	0	8	267	271	0	271	0	8	0	0	0	0
Eastern Michigan U.	195	198	85	274	269	0	269	69	46	58	137	0	137
U. Massachusetts, Lowell	196	233	457	725	264	0	264	0	0	0	0	0	0
Carnegie Mellon U.	197	878	774	476	256	256	0	780	685	427	256	256	0
Eastern Washington U.	198	354	281	176	237	0	237	354	281	176	220	0	220
U. Wisconsin-Platteville	199	ne	280	285	225	172	53	ne	77	76	58	45	13
U. Notre Dame	200	1,405	993	424	222	222	0	0	0	0	0	0	0
U. South Dakota	201	30	0	191	221	0	221	0	0	0	0	0	0
U. Northern Iowa	202	199	152	201	219	219	0	67	78	94	48	48	0
Southern U. and A&M C., Baton Rouge	203	184	210	208	212	112	100	184	210	208	117	17	100
Saint Louis U.	204	1	0	0	207	0	207	1	0	0	0	0	0
U. California, Merced	205	0	0	0	201	201	0	0	0	0	1	1	0
California State U., Fullerton	206	299	416	338	200	136	64	277	340	299	174	136	38

TABLE 44

**Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2021 agricultural sciences and natural resources conservation total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total						Federally financed					
		Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation	Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation
		2018	2019	2020	2021	2021	2021	2018	2019	2020	2021	2021	2021
U. Mississippi	207	12	0	96	191	191	0	9	0	96	177	177	0
Troy U.	208	ne	ne	112	186	103	83	ne	ne	112	179	99	80
U. Memphis	209	0	26	232	183	179	4	0	0	0	0	0	0
Illinois State U.	210	256	50	184	179	179	0	23	30	29	138	138	0
Pittsburg State U.	211	27	100	113	176	0	176	0	11	61	142	0	142
U. Dayton	212	454	237	199	171	0	171	391	212	165	171	0	171
East Carolina U.	213	66	0	79	164	164	0	28	0	9	0	0	0
Tulane U.	214	431	384	133	159	0	159	282	130	94	110	0	110
Santa Clara U.	215	222	409	300	155	0	155	59	198	37	50	0	50
U. Texas, Tyler	216	206	215	321	154	0	154	13	0	146	19	0	19
Stockton U.	217	0	0	46	152	0	152	0	0	46	152	0	152
C. Charleston	218	156	132	100	147	0	147	105	75	58	51	0	51
Kennesaw State U.	219	0	19	16	146	146	0	0	19	0	0	0	0
Murray State U.	219	23	88	76	146	146	0	0	52	43	42	42	0
Occidental C.	221	172	179	90	138	88	50	172	179	90	88	88	0
New School	222	0	23	54	137	0	137	0	0	0	0	0	0
Western Carolina U.	223	86	116	75	136	136	0	73	98	63	106	106	0
Barnard C.	224	0	21	67	135	135	0	0	10	57	135	135	0
Drake U.	225	54	114	ne	124	0	124	0	0	ne	70	0	70
California State U., San Bernardino	226	498	509	400	121	0	121	439	447	346	106	0	106
Northern Illinois U.	227	0	0	29	119	0	119	0	0	25	106	0	106
U. Texas, El Paso	228	2,016	1,457	921	116	0	116	1,129	658	392	61	0	61
Hofstra U.	229	3	34	191	113	0	113	3	0	0	27	0	27

**TABLE 44**  
**Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2021 agricultural sciences and natural resources conservation total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total								Federally financed							
		Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation	Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation				
		2018	2019	2020	2021	2021	2021	2018	2019	2020	2021	2021	2021				
Northwest Indian C.	230	242	104	103	108	108	0	242	104	103	108	108	0				
U. Missouri, Saint Louis	230	221	411	229	108	0	108	16	202	217	108	0	108				
U. Colorado Denver <sup>d</sup>	232	na	na	na	106	0	106	na	na	na	106	0	106				
Southern Connecticut State U.	233	60	71	44	105	49	56	47	68	22	58	47	11				
Salisbury U.	234	9	1	0	97	0	97	0	0	0	0	0	0				
Ball State U.	235	49	79	155	96	0	96	0	0	28	1	0	1				
Colorado C.	235	73	190	35	96	0	96	32	103	0	96	0	96				
Northern Michigan U.	237	0	0	97	90	0	90	0	0	97	90	0	90				
Marquette U.	238	36	92	84	88	88	0	36	92	84	88	88	0				
U. Louisville	239	137	4	109	87	8	79	8	0	0	18	0	18				
St. Cloud State U.	240	0	10	4	85	85	0	0	0	0	85	85	0				
Johnson C. Smith U.	241	36	116	76	81	0	81	0	0	76	81	0	81				
Dakota State U.	242	0	7	0	80	80	0	0	0	0	80	80	0				
Albany State U.	243	429	892	479	79	0	79	255	484	270	39	0	39				
James Madison U.	244	40	80	105	77	0	77	0	69	85	60	0	60				
Morehead State U.	245	17	10	88	74	23	51	10	0	12	61	13	48				
U. Nebraska, Omaha	246	30	19	115	71	52	19	9	4	0	0	0	0				
Coastal Carolina U.	247	0	0	0	70	0	70	0	0	0	0	0	0				
U. Denver	247	156	251	298	70	0	70	115	221	280	54	0	54				

**TABLE 44**  
**Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2021 agricultural sciences and natural resources conservation total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total							Federally financed						
		Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation	Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation		
		2018	2019	2020	2021	2021	2021	2018	2019	2020	2021	2021	2021		
U. Alaska, Southeast	249	271	224	187	65	0	65	271	173	139	35	0	35		
California State U., Dominguez Hills	250	0	0	0	61	61	0	0	0	0	61	61	0		
Kent State U.	250	0	93	35	61	15	46	0	0	3	48	15	33		
Mount Holyoke C.	252	0	0	0	58	0	58	0	0	0	58	0	58		
New Mexico Highlands U.	252	4	ne	55	58	0	58	0	ne	55	58	0	58		
U. New England	252	39	85	82	58	0	58	3	27	28	20	0	20		
U. New Haven	252	61	14	0	58	0	58	29	6	0	9	0	9		
SUNY, Binghamton U.	256	4	109	66	50	0	50	0	0	0	0	0	0		
Temple U.	257	393	194	30	47	47	0	175	194	0	0	0	0		
Texas Christian U.	258	0	57	47	43	43	0	0	0	47	25	25	0		
California State U., Channel Islands	259	133	157	194	41	0	41	107	64	151	2	0	2		
Loyola Marymount U.	260	0	0	28	40	0	40	0	0	28	0	0	0		
Monmouth U.	261	ne	93	3	39	0	39	ne	0	0	16	0	16		
U. Washington, Tacoma	262	23	563	163	38	0	38	23	385	161	38	0	38		
Dordt U.	263	ne	ne	ne	37	14	23	ne	ne	ne	6	6	0		
Fort Hays State U.	263	ne	0	1	37	37	0	ne	0	0	0	0	0		
U. Toledo	265	74	338	26	35	35	0	54	311	19	0	0	0		
U.S. Air Force Academy	266	0	0	0	33	0	33	0	0	0	33	0	33		
Towson U.	267	80	76	10	32	0	32	80	76	0	0	0	0		

**TABLE 44**  
**Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2021 agricultural sciences and natural resources conservation total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total						Federally financed							
		Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation	Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation		
		2018	2019	2020	2021	2021	2021	2018	2019	2020	2021	2021	2021		
U. San Francisco	267	9	31	37	32	0	32	0	0	0	0	0	0	0	
CUNY, City C.	269	0	0	0	30	30	0	0	0	0	0	0	0	0	
U. New Orleans	269	0	0	0	30	0	30	0	0	0	30	0	30	0	
Alaska Pacific U.	271	34	71	38	29	29	0	19	71	38	29	29	0	0	
U. Louisiana, Monroe	272	22	34	29	28	28	0	0	0	0	0	0	0	0	
Northeastern Illinois U.	273	0	0	0	27	27	0	0	0	0	27	27	0	0	
Miami U.	274	86	48	42	26	26	0	86	0	0	0	0	0	0	
Northland C.	274	ne	ne	ne	26	0	26	ne	ne	ne	13	0	13	0	
U. Puerto Rico, Humacao	276	0	11	26	25	0	25	0	2	26	25	0	25	0	
C. New Jersey	277	0	ne	0	24	0	24	0	ne	0	0	0	0	0	
Pacific U.	277	163	569	48	24	0	24	0	13	0	0	0	0	0	
St. Olaf C.	277	24	85	78	24	1	23	0	68	40	0	0	0	0	
Texas A&M International U.	280	78	66	104	23	0	23	77	12	0	0	0	0	0	
Midwestern U.	281	0	6	33	22	22	0	0	6	33	22	22	0	0	
Pennsylvania State U., Harrisburg	282	93	89	2	21	21	0	57	5	2	21	21	0	0	
Vassar C.	282	0	0	0	21	0	21	0	0	0	0	0	0	0	
Roger Williams U.	284	28	33	6	20	20	0	0	0	0	11	11	0	0	
Fort Lewis C.	285	ne	0	23	19	0	19	ne	0	21	1	0	1	0	
Saginaw Valley State U.	285	42	20	20	19	19	0	0	0	0	0	0	0	0	
U. Arkansas, Little Rock	285	12	23	10	19	17	2	2	21	9	2	0	2	0	
Wake Forest U.	285	0	0	126	19	0	19	0	0	0	0	0	0	0	

**TABLE 44**  
**Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2021 agricultural sciences and natural resources conservation total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total							Federally financed						
		Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation	Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation		
		2018	2019	2020	2021	2021	2021	2018	2019	2020	2021	2021	2021		
C. Wooster	289	25	26	15	15	15	0	25	26	5	5	5	0		
Saint John's U.	289	0	0	0	15	0	15	0	0	0	0	0	0		
U. Central Florida	291	3	1	1	14	13	1	0	0	0	0	0	0		
U. South Alabama	291	0	0	0	14	0	14	0	0	0	0	0	0		
C. of Saint Benedict	293	0	0	0	13	0	13	0	0	0	0	0	0		
Central Washington U.	293	0	0	21	13	0	13	0	0	19	6	0	6		
Vanderbilt U. and Vanderbilt U. Medical Center	293	228	4	10	13	0	13	140	4	10	13	0	13		
Smith C.	296	0	0	0	11	0	11	0	0	0	9	0	9		
U. Minnesota, Morris	296	ne	13	13	11	0	11	ne	0	0	0	0	0		
William Paterson U.	296	0	0	22	11	0	11	0	0	22	0	0	0		
San Diego State U.	299	554	683	921	10	0	10	232	278	212	8	0	8		
U. North Georgia	299	2	106	8	10	2	8	2	16	8	8	0	8		
U. Alabama, Huntsville	301	0	0	2	9	9	0	0	0	0	9	9	0		
California State U., Bakersfield	302	0	0	0	8	8	0	0	0	0	8	8	0		
CUNY, Baruch C.	302	57	39	0	8	0	8	19	20	0	0	0	0		
Black Hills State U.	304	0	0	38	6	0	6	0	0	31	2	0	2		



**TABLE 44**  
**Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2021 agricultural sciences and natural resources conservation total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total							Federally financed						
		Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation	Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation		
		2018	2019	2020	2021	2021	2021	2018	2019	2020	2021	2021	2021		
Eastern Connecticut State U.	305	0	1	0	5	1	4	0	0	0	1	1	0		
Gallaudet U.	306	10	7	2	4	3	1	10	5	0	4	3	1		
Seattle U.	306	0	0	0	4	4	0	0	0	0	4	4	0		
Western Michigan U. and Homer Stryker M.D. School of Medicine	306	81	27	4	4	0	4	40	1	0	0	0	0		
Eastern Kentucky U.	309	5	6	4	3	3	0	0	0	0	0	0	0		
U. Illinois, Springfield	309	19	4	4	3	0	3	0	0	0	0	0	0		
U. Puerto Rico, Cayey	311	10	45	40	2	0	2	10	45	40	2	0	2		
All other surveyed institutions	-	118,385	63,899	3,225	0	0	0	52,053	23,723	1,891	0	0	0		

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

<sup>a</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

<sup>b</sup> The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

<sup>c</sup> The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

<sup>d</sup> The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

**Note(s):**

Institutions reporting zero expenditures in ranked total for FY 2021 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 45

**Total and federally financed higher education R&D expenditures in the biological and biomedical sciences, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
All institutions	-	14,517,040	15,390,830	15,764,528	16,557,201	8,572,395	9,261,709	9,338,221	10,001,728
U. Pennsylvania	1	727,296	743,835	780,497	835,864	373,564	390,906	390,309	434,661
Harvard U.	2	486,362	536,371	534,656	539,289	299,638	337,304	325,366	308,919
Scripps Research Institute	3	396,839	427,734	444,964	485,435	267,088	267,122	243,502	272,181
Icahn School of Medicine at Mount Sinai	4	300,271	359,149	359,900	391,642	169,196	198,767	208,188	235,660
Washington U., Saint Louis	5	327,959	354,062	359,856	389,457	198,645	211,425	216,565	237,968
Johns Hopkins U. <sup>a</sup>	6	288,079	326,327	311,295	350,122	194,395	228,297	221,384	269,831
Baylor C. of Medicine	7	309,943	298,881	311,546	345,012	189,614	171,688	166,676	196,635
Rockefeller U.	8	319,636	318,581	322,734	325,035	76,714	75,507	78,153	87,220
U. Texas M. D. Anderson Cancer Center	9	283,074	289,848	304,198	320,834	72,068	74,738	64,702	73,202
Cornell U.	10	298,172	314,443	311,954	317,690	128,421	146,718	153,222	164,967
U. Pittsburgh, Pittsburgh	11	279,951	294,582	294,183	304,345	185,759	189,292	189,410	206,387
New York U.	12	241,316	250,281	250,446	297,690	132,039	138,450	147,771	177,500
Duke U.	13	221,378	237,097	245,327	291,851	172,875	189,808	195,787	236,697
U. Washington, Seattle	14	288,723	257,677	260,831	286,353	177,908	152,127	153,375	168,960
U. Wisconsin-Madison	15	220,658	261,715	277,654	273,356	138,453	161,268	162,347	159,456
U. Michigan, Ann Arbor	16	230,944	258,013	266,507	262,263	154,781	176,626	180,703	185,914
Stanford U.	17	188,026	189,727	228,842	242,245	148,089	150,221	179,023	185,954
U. Virginia, Charlottesville	18	199,462	212,843	230,231	229,238	104,569	118,802	128,995	130,255
Columbia U. in the City of New York	19	181,521	196,254	206,509	226,903	144,946	158,280	168,917	186,401
Yale U.	20	187,310	208,829	206,929	222,114	131,070	141,401	140,048	150,159
U. Arizona	21	174,310	200,691	212,741	221,774	72,873	96,689	101,105	115,658
U. Texas Southwestern Medical Center	22	161,587	177,357	214,795	219,742	72,589	75,227	88,551	100,990
Vanderbilt U. and Vanderbilt U. Medical Center	23	170,095	172,681	183,620	206,202	98,642	102,998	109,381	121,941
Emory U.	24	184,096	187,084	182,193	203,597	141,403	148,788	144,201	161,290
U. California, Davis	25	220,855	224,044	218,316	199,310	136,830	140,036	136,739	120,744
U. North Carolina, Chapel Hill	26	157,615	165,804	167,907	191,773	114,659	125,292	123,492	143,283
U. Maryland <sup>b</sup>	27	na	152,853	166,254	183,621	na	104,187	114,209	116,912
U. Kentucky	28	161,764	178,030	175,026	181,729	76,484	92,761	93,567	101,455
Boston U.	29	112,076	150,669	163,939	168,310	72,295	98,855	110,627	112,638
Northwestern U.	30	128,409	141,523	153,629	166,594	85,061	92,458	99,378	115,175
U. Georgia	31	135,348	140,018	143,796	156,208	67,061	72,403	78,657	90,936
U. Massachusetts, Medical School	32	83,615	134,842	137,103	145,417	60,397	98,979	96,954	100,459
U. Texas Medical Branch	33	129,408	130,473	137,316	139,580	72,829	79,850	86,048	85,905

TABLE 45

**Total and federally financed higher education R&D expenditures in the biological and biomedical sciences, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
U. Iowa	34	127,863	122,729	126,870	134,116	71,337	73,711	78,419	80,979
U. Florida	35	135,774	143,488	125,655	134,050	71,623	70,530	61,336	66,696
U. Alabama, Birmingham	36	122,978	137,196	132,963	132,380	86,516	99,731	98,997	100,726
U. California, Berkeley	37	96,014	104,849	130,392	129,502	53,745	57,666	67,501	65,808
U. California, Irvine	38	87,482	103,711	114,449	125,642	51,035	61,632	64,157	75,077
Indiana U., Bloomington	39	111,097	116,176	124,207	122,903	66,112	79,405	80,025	82,191
North Carolina State U.	40	108,990	120,567	120,671	119,614	42,858	44,058	42,625	47,017
U. Minnesota, Twin Cities	41	108,847	101,129	111,883	118,493	53,029	55,639	63,674	75,180
Michigan State U.	42	113,287	119,653	117,715	117,739	55,685	60,584	61,131	62,624
U. Southern California	43	137,003	140,622	132,168	117,462	87,707	93,324	91,893	82,518
Cold Spring Harbor Laboratory	44	115,302	125,151	113,394	112,613	66,716	72,319	60,487	54,682
Pennsylvania State U., University Park and Hershey Medical Center	45	90,168	84,873	98,382	112,135	48,689	51,335	56,971	63,659
California Institute of Technology	46	76,044	84,558	89,580	100,578	54,071	60,603	65,017	67,730
U. Nebraska, Medical Center	47	87,765	103,618	105,620	99,830	60,538	70,813	70,536	71,474
Texas A&M U., College Station and Health Science Center	48	69,786	72,472	77,408	97,519	39,581	46,051	50,356	55,631
SUNY, U. Buffalo	49	76,477	82,365	88,070	95,200	40,689	42,370	47,604	51,230
U. South Florida <sup>c</sup>	50	116,411	115,159	90,898	93,020	83,905	85,703	64,867	64,801
Ohio State U.	51	68,305	76,202	83,715	92,910	46,189	51,272	58,581	65,420
U. Illinois, Urbana-Champaign	52	64,375	66,393	77,458	91,434	35,615	39,824	44,234	54,744
Tufts U.	53	34,372	80,921	92,119	91,403	25,340	58,033	69,674	71,168
Rutgers, State U. New Jersey, New Brunswick	54	76,998	91,356	113,712	90,875	54,571	52,365	57,418	54,432
Princeton U.	55	80,786	87,248	81,137	87,346	46,563	52,855	50,581	52,315
Case Western Reserve U.	56	79,653	77,957	82,470	86,328	64,236	65,059	69,339	71,246
Dartmouth C. and Dartmouth Hitchcock Medical Center	57	87,469	90,029	84,528	83,974	48,748	48,255	49,057	53,355
Medical C. Wisconsin	58	74,302	80,531	83,882	83,895	44,245	45,066	47,297	49,607
Thomas Jefferson U.	59	64,509	73,544	74,942	83,083	36,194	42,959	42,244	49,473
U. Chicago	60	81,872	86,619	83,295	82,092	61,084	66,862	67,334	66,653
U. Connecticut	61	62,683	69,141	75,806	79,715	39,866	46,453	49,480	52,731
U. Illinois, Chicago	62	71,150	74,126	81,071	77,533	43,533	45,838	42,919	41,820
U. Miami	63	53,646	67,787	78,338	75,792	40,358	56,865	64,201	62,744
U. Texas Health Science Center, San Antonio	64	61,000	62,855	67,851	74,729	39,389	42,261	49,214	48,445
Arizona State U.	65	96,535	67,597	63,293	73,598	52,837	31,588	35,741	40,918
Virginia Commonwealth U.	66	46,022	50,240	53,656	72,971	36,713	39,483	40,720	47,612

TABLE 45

**Total and federally financed higher education R&D expenditures in the biological and biomedical sciences, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
U. Texas, Austin	67	66,148	58,063	62,802	72,413	45,915	39,470	38,317	44,438
Colorado State U., Fort Collins	68	36,844	40,348	39,769	67,310	23,392	25,346	23,865	37,530
U. Louisville	69	56,117	55,219	60,608	66,095	36,162	39,225	39,447	44,936
Van Andel Research Institute	70	55,171	61,738	58,982	65,789	14,285	18,259	18,538	22,231
Medical U. South Carolina	71	65,313	67,708	62,475	64,300	48,808	51,154	49,032	51,796
SUNY, Stony Brook U.	72	52,172	60,050	61,121	64,217	37,236	37,657	39,569	40,518
U. Arkansas for Medical Sciences	73	43,473	52,686	67,447	64,136	31,028	32,967	38,357	34,745
U. California, San Diego	74	57,996	64,858	62,532	63,846	31,178	36,228	36,347	45,133
Massachusetts Institute of Technology	75	75,156	82,262	67,446	60,795	47,512	44,519	42,112	37,649
U. Louisiana, Lafayette	76	62,238	16,539	68,528	60,760	11,620	5,706	11,539	16,125
Louisiana State U., Baton Rouge	77	55,119	57,732	56,483	60,515	27,594	28,862	26,797	29,672
U. California, Riverside	78	56,847	58,738	60,674	60,318	18,234	19,808	25,037	24,845
U. Cincinnati	79	56,993	58,504	62,270	60,204	28,826	30,186	35,074	34,328
George Washington U.	80	56,145	54,126	52,902	58,491	35,501	35,141	33,137	39,381
Brown U.	81	44,244	51,017	57,280	57,160	33,537	37,878	41,143	43,126
U. Rochester	82	53,493	53,241	54,066	56,944	40,933	43,634	44,908	48,117
U. Texas Health Science Center, Houston	83	54,940	55,055	54,213	54,224	37,348	38,689	35,502	36,466
U. Hawaii, Manoa	84	53,826	54,997	53,100	52,760	17,957	18,542	16,953	19,052
Georgia State U.	85	51,668	48,140	50,131	52,370	23,612	23,302	24,615	26,909
U. Missouri, Columbia	86	57,829	55,276	50,323	51,630	39,559	41,455	39,472	35,810
U. Vermont	87	40,394	46,795	54,565	51,579	29,532	35,346	37,701	35,980
U. Oklahoma, Norman and Health Science Center	88	35,948	37,322	43,605	48,670	22,620	23,109	28,155	32,725
U. Kansas	89	58,052	62,491	62,277	46,912	36,574	38,434	38,670	30,741
Virginia Polytechnic Institute and State U.	90	51,145	46,123	40,276	46,515	19,187	18,532	15,769	18,558
U. Utah	91	20,288	16,890	40,013	44,662	14,047	10,592	24,860	28,068
Temple U.	92	49,745	47,651	43,913	44,630	36,353	34,253	34,298	29,114
Oregon State U.	93	34,352	34,305	38,938	44,339	24,323	24,413	27,860	32,710
U. Nevada, Reno	94	31,513	32,985	36,791	43,521	15,433	17,099	18,123	25,242
Iowa State U.	95	62,125	56,405	39,072	42,898	25,824	26,626	18,255	17,834
U. Colorado Boulder	96	30,851	41,686	41,081	42,368	24,907	35,165	34,958	36,680
Augusta U.	97	36,335	36,815	40,513	41,967	24,962	24,358	29,605	29,845
Cleveland State U.	98	42,253	40,075	43,464	41,447	38,203	35,061	40,320	37,018
Drexel U.	99	42,647	41,484	38,200	39,937	25,618	25,535	24,521	26,987
Florida International U.	100	31,331	33,053	39,760	37,940	16,457	16,837	19,181	17,524

TABLE 45

**Total and federally financed higher education R&D expenditures in the biological and biomedical sciences, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
U. Oregon	101	34,474	34,751	33,631	37,907	25,062	28,993	28,932	28,980
George Mason U.	102	10,031	9,520	25,142	37,805	7,049	6,580	5,178	5,399
Tulane U.	103	33,655	30,686	39,053	36,099	21,809	22,410	26,219	25,730
Washington State U.	104	41,126	41,122	35,845	34,771	25,355	25,006	21,674	23,178
SUNY, Downstate Health Sciences U.	105	34,476	35,422	32,389	33,935	26,117	26,744	26,171	27,284
U. California, Los Angeles	106	38,362	38,154	34,022	33,765	24,572	24,564	22,266	21,562
West Virginia U.	107	17,860	18,919	25,158	30,824	9,954	9,967	12,150	16,135
U. Nebraska, Lincoln	108	28,530	29,626	30,234	30,317	10,914	11,404	12,887	14,327
U. Tennessee, Health Science Center	109	15,901	18,079	22,245	29,655	12,182	14,535	19,859	23,001
U. Notre Dame	110	25,857	26,385	27,095	29,214	11,043	13,259	11,155	12,920
SUNY, U. Albany	111	32,153	32,595	27,543	29,137	19,878	19,522	17,227	18,406
Saint Louis U.	112	23,071	25,209	27,623	28,234	12,310	13,370	13,489	13,620
U. Texas Health Science Center, Tyler	113	17,949 i	19,606 i	21,265	27,928	6,438 i	7,084 i	7,732	12,007
U. New Mexico	114	33,124	30,297	28,740	27,380	27,509	25,369	23,802	22,646
Kansas State U.	115	31,202	30,002	30,940	26,459	14,072	13,583	14,289	10,615
Wayne State U.	116	27,671	30,203	24,007	26,291	17,035	18,330	14,506	16,595
U. Tennessee, Knoxville <sup>d</sup>	117	16,939	17,425	22,643	26,252	8,247	8,087	10,968	13,709
Oklahoma State U., Stillwater	118	34,590	19,934	19,956	25,945	12,518	7,680	7,699	10,218
Northern Arizona U.	119	22,687	26,194	23,741	25,623	13,836	18,081	15,010	17,143
U. Massachusetts, Amherst	120	22,897	24,678	25,906	25,498	13,759	14,835	15,754	16,284
Purdue U., West Lafayette	121	20,819	25,238	34,790	25,488	12,874	12,048	13,534	13,625
U. Idaho	122	17,385	19,378	22,764	25,070	10,754	13,092	17,044	19,286
U. California, Santa Cruz	123	21,950	23,762	24,318	25,050	15,425	15,861	16,755	17,420
Clemson U.	124	24,282	25,381	28,361	24,231	7,421	8,049	8,494	7,601
U. Alaska, Fairbanks	125	6,607	7,064	12,603	24,022	4,621	4,540	10,426	19,159
U. Texas, San Antonio	126	15,062	20,972	23,733	23,479	7,819	11,309	9,925	10,784
U. Mississippi	127	29,293	33,394	15,866	22,359	20,648	26,331	11,028	19,215
U. California, Santa Barbara	128	28,520	27,718	24,077	22,132	14,665	15,351	12,288	11,506
Oregon Health and Science U.	129	154,478	150,395	26,551	21,651	114,716	122,388	20,651	17,330
U. Montana, Missoula	130	17,081	20,283	22,464	21,407	12,101	11,575	15,437	14,945
Georgia Institute of Technology	131	26,327	24,989	18,410	21,357	15,783	15,498	9,186	11,572
Florida State U.	132	22,880	24,383	22,836	21,063	12,366	13,487	12,479	10,937
Brandeis U.	133	24,400	22,063	26,272	20,813	19,117	19,823	20,298	16,190
Texas Tech U., Health Sciences Center	134	15,401	20,207	21,528	20,394	4,108	7,666	9,477	8,118

TABLE 45

**Total and federally financed higher education R&D expenditures in the biological and biomedical sciences, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Louisiana State U., Health Sciences Center, New Orleans	135	18,827	18,839	19,533	20,165	15,141	16,081	16,359	17,760
Florida Atlantic U.	136	11,013	13,061	16,997	18,879	2,372	3,616	6,357	6,611
Montana State U., Bozeman	137	16,600	19,659	19,994	18,017	13,148	14,355	14,059	12,653
U. Rhode Island	138	9,141	13,997	18,161	17,614	8,068	11,877	15,256	15,150
U. North Dakota	139	18,184	16,722	17,478	17,556	8,856	7,707	8,147	9,103
SUNY, Upstate Medical U.	140	14,971	15,003	14,671	16,959	8,467	11,886	10,783	12,320
Loyola U., Chicago	141	12,873	14,788	15,804	16,741	8,743	10,413	11,042	12,636
U. Texas, El Paso	142	17,475	20,446	16,280	16,281	9,515	9,607	8,015	10,380
Albany Medical C.	143	14,368	16,236	17,150	16,121	9,912	11,220	12,263	12,700
Meharry Medical C.	144	16,980	18,286	13,870	15,840	14,515	16,443	12,573	13,784
Rice U.	145	14,193	13,966	16,008	15,766	7,813	8,245	8,540	7,628
U. Central Florida	146	12,483	13,148	15,378	15,562	7,963	8,324	10,063	10,666
San Diego State U.	147	14,575	12,720	14,602	15,520	7,307	5,833	6,374	5,985
U. Wyoming	148	9,277	13,913	14,659	15,284	7,591	11,223	13,246	14,012
New Mexico State U.	149	7,214	7,688	9,867	15,045	6,004	6,605	8,253	13,212
U. North Texas, Health Science Center	150	19,354	20,989	13,197	14,592	7,239	8,378	6,661	8,634
U. Houston	151	10,112	12,863	12,625	14,588	5,297	8,037	7,235	8,294
U. South Carolina, Columbia	152	12,482	13,120	18,374	14,237	8,654	10,225	10,663	9,864
Texas Tech U.	153	12,545	14,796	12,709	14,152	1,556	2,663	1,723	1,621
Auburn U., Auburn	154	11,229	13,317	15,224	14,099	5,741	5,412	5,918	5,996
U. South Dakota	155	15,990	16,612	15,109	13,982	9,639	9,315	9,131	7,905
Northeastern U.	156	15,224	14,380	14,718	13,919	10,736	10,474	12,023	11,399
U. Nevada, Las Vegas	157	7,898	10,027	12,763	12,969	5,314	6,140	8,177	7,772
Carnegie Mellon U.	158	9,426	12,103	12,566	12,858	5,181	7,540	8,344	8,160
Georgetown U.	159	12,679	14,202	14,827	12,828	9,221	10,309	9,790	8,536
Rush U.	160	14,016	18,302	13,822	12,283	13,484	17,357	12,252	10,059
San Francisco State U.	161	10,879	12,038	11,246	11,694	7,807	8,627	7,490	7,566
Rosalind Franklin U. of Medicine and Science	162	14,266	14,625	12,825	11,434	8,626	8,135	7,651	7,942
Louisiana State U., Health Sciences Center, Shreveport	163	9,928	11,230	10,644	10,898	7,706	9,918	9,794	10,192
Texas State U.	164	7,920	6,761	7,213	10,644	1,191	1,230	1,103	3,400
East Carolina U.	165	5,632	3,075	2,842	10,397	3,914	1,419	1,150	5,749
U. New Hampshire	166	12,196	12,981	11,697	10,279	8,653	8,470	7,420	4,781
U. Maine	167	9,760	10,759	10,949	9,846	4,890	4,757	4,992	5,112
Boise State U.	168	7,428	7,701	8,089	9,570	4,908	4,907	5,371	6,566

TABLE 45

**Total and federally financed higher education R&D expenditures in the biological and biomedical sciences, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
U. Nebraska, central administration	169	5,070	6,872	9,514	9,291	5,057	6,872	9,514	9,259
Eastern Virginia Medical School	170	6,470	8,746	9,968	9,234	4,271	6,015	6,821	6,620
Rutgers, State U. New Jersey, Newark	171	9,541	10,800	12,676	9,197	6,846	5,847	7,681	7,225
Portland State U.	172	2,835	2,702	7,666	9,159	2,557	2,389	7,166	8,523
U. Southern Mississippi	173	7,978	7,545	8,948	8,983	5,998	6,035	6,633	7,130
U. Maryland, Baltimore County	174	4,888	8,282	9,422	8,953	3,491	7,244	7,913	7,243
U. Colorado Anschutz Medical Campus <sup>e</sup>	175	na	na	na	8,948	na	na	na	4,008
East Tennessee State U.	176	5,091	i 7,316	i 5,949	i 8,912	i 3,735	5,555	4,219	6,103
Northeast Ohio Medical U.	177	7,606	8,481	8,678	8,853	5,675	6,336	7,209	7,210
U. Texas, Arlington	178	6,319	7,903	8,478	8,816	1,095	2,074	2,515	2,923
Delaware State U.	179	4,525	6,582	8,501	i 8,804	3,013	4,555	5,974	i 6,867
Old Dominion U.	180	9,337	9,952	9,611	8,798	2,138	1,929	1,867	1,749
Ohio U.	181	8,008	i 6,676	7,691	8,765	1,615	2,113	2,603	3,462
U. North Texas, Denton	182	9,685	10,319	10,805	7,908	2,626	2,780	2,197	1,789
Mississippi State U.	183	5,958	6,814	10,917	7,744	3,269	3,890	5,110	2,552
Utah State U.	184	4,616	5,064	4,657	7,716	1,984	2,335	1,868	2,911
Baylor U.	185	2,622	2,938	4,523	7,708	832	867	1,930	3,462
Boston C.	186	11,319	12,312	8,248	7,705	9,582	10,395	6,057	6,232
Indiana U.-Purdue U., Indianapolis	187	5,183	5,449	7,136	7,420	3,634	4,190	5,851	6,086
New York Medical C.	188	3,489	i 7,813	i 7,391	7,406	3,489	i 4,652	i 4,316	4,088
Uniformed Services U. of the Health Sciences	189	1,724	1,512	1,525	7,192	1,002	916	902	5,079
CUNY, Hunter C.	190	6,073	7,166	8,550	7,167	3,209	3,720	5,050	4,080
Creighton U.	191	5,948	i 7,033	i 5,976	i 7,059	i 1,811	i 2,648	i 2,430	i 2,775
Syracuse U.	192	6,507	7,738	7,080	7,028	3,188	3,545	3,734	3,858
Illinois Institute of Technology	193	7,583	8,645	8,046	6,978	6,932	8,004	7,375	6,735
U. Toledo	194	5,554	5,834	5,710	6,944	3,147	2,867	2,730	3,292
Rensselaer Polytechnic Institute	195	5,431	5,384	6,102	6,913	2,903	3,609	4,483	3,934
SUNY, C. of Environmental Science and Forestry	196	9,599	10,119	9,281	6,857	2,401	2,591	3,064	2,389
CUNY, City C.	197	5,059	3,655	2,752	6,634	4,484	2,864	2,012	5,275
Midwestern U.	198	6,344	6,387	6,539	6,633	1,016	548	448	775
Clark Atlanta U.	199	5,799	6,360	6,017	6,614	3,774	3,859	3,468	3,496
Wright State U.	200	8,199	8,443	7,780	6,556	5,247	5,665	4,918	4,572
Howard U.	201	4,231	5,089	5,312	6,350	1,601	2,174	1,798	2,527
Loma Linda U.	202	8,817	i 7,979	i 7,141	i 6,302	i 7,351	i 6,681	i 6,011	i 5,341



TABLE 45

**Total and federally financed higher education R&D expenditures in the biological and biomedical sciences, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
U. Arkansas, Fayetteville	203	5,833	6,498	6,357	6,294	1,967	2,770	2,880	3,154
Southern Illinois U., Carbondale	204	5,952	4,686	4,876	6,268	2,334	2,197	2,290	1,824
U. Alaska, Anchorage	205	3,713	4,874	4,665	6,250	3,015	3,907	3,606	5,164
North Dakota State U.	206	3,262	3,364	5,106	6,187	1,349	1,854	2,235	4,056
Kent State U.	207	3,815	5,919	6,330	6,047	1,597	2,895	2,624	2,715
North Carolina Central U.	208	6,916	7,314	6,873	6,036	6,581	7,084	6,362	5,698
U. Massachusetts, Lowell	209	4,533	5,331	5,523	5,652	2,862	2,953	3,156	2,921
U. Alabama, Tuscaloosa	210	3,790	3,536	3,602	5,585	1,930	1,911	2,119	2,864
SUNY, Binghamton U.	211	4,482	4,529	4,595	5,382	1,258	910	954	752
U. North Carolina, Greensboro	212	2,972	4,561	4,352	5,376	2,038	3,347	3,013	3,761
Western Michigan U. and Homer Stryker M.D. School of Medicine	213	4,405	4,532	5,859	5,315	1,972	1,962	2,015	1,855
U. Texas, Dallas	214	6,117	3,900	6,377	5,280	2,236	2,314	3,035	2,713
U. Denver	215	3,682	4,137	4,591	5,277	1,946	2,284	2,441	3,273
U. Missouri, Kansas City	216	5,819	5,054	5,780	5,265	2,906	3,044	3,943	4,016
Marquette U.	217	6,753	7,863	5,871	5,143	4,501	5,003	3,443	2,967
U. California, Merced	218	5,880	8,620	7,563	5,096	1,548	3,282	3,335	2,895
Arkansas State U., Jonesboro	219	4,699	4,648	4,707	5,057	2,346	2,109	2,185	2,071
U. Delaware	220	3,928	4,551	5,344	5,050	2,689	3,234	4,094	3,996
Brigham Young U., Provo	221	6,548	5,135	5,643	5,012	2,545	2,742	3,131	3,353
Western U. of Health Sciences	222	2,662	2,921	4,010	4,966	1,815	2,102	3,585	4,511
CUNY, Advanced Science Research Center	223	1,709	3,130	3,733	4,949	1,231	2,749	3,304	4,115
Marshall U.	224	4,690	4,753	3,800	4,893	1,827	2,263	1,964	2,694
U. North Carolina, Wilmington	225	4,414	5,604	4,791	4,712	1,386	2,656	2,330	1,804
Texas A&M U.-Corpus Christi	226	4,278	5,218	6,377	4,643	3,439	4,676	4,191	2,629
Chapman U.	227	2,880	4,414	4,374	4,588	1,081	2,504	2,519	2,796
U. Massachusetts, Boston	228	3,996	5,118	4,610	4,438	2,908	3,211	2,827	2,827
U. Puerto Rico, Rio Piedras	229	2,396	3,657	3,590	4,234	1,296	2,897	2,884	3,234
Lehigh U.	230	2,814	4,448	4,073	4,088	2,152	3,846	3,834	3,767
Texas Southern U.	231	1,883	2,695	4,513	4,073	1,704	1,851	3,247	2,518
New Jersey Institute of Technology	232	2,500	3,051	2,459	4,038	936	1,384	1,109	966
U. New England	233	3,453	3,909	3,742	3,916	2,822	2,818	2,927	2,715
U. Memphis	234	5,330	5,032	4,754	3,805	3,407	2,960	2,339	2,036
Rowan U.	235	3,017	4,311	3,264	3,796	2,428	3,160	2,705	3,249
U. Wisconsin-Milwaukee	236	2,281	2,772	4,150	3,765	1,347	1,832	2,489	2,132

TABLE 45

**Total and federally financed higher education R&D expenditures in the biological and biomedical sciences, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
U. Detroit Mercy	237	4,317	4,729	4,019	3,743	4,275	4,682	3,984	3,709
Oakland U.	238	1,369	3,678	3,323	3,703	979	1,598	1,664	1,710
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	239	3,379	3,624	3,587	3,660	177	148	297	354
California State U., Northridge	240	3,374	3,232	3,875	3,633	2,097	2,346	2,980	2,938
Desert Research Institute	241	3,232	2,993	3,539	3,574	246	188	43	33
Albany C. of Pharmacy and Health Sciences	242	1,296	3,033	2,732	3,562	692	1,476	1,111	1,856
Miami U.	243	5,152	6,078	5,852	3,528	4,055	4,578	3,760	1,968
U. Texas Rio Grande Valley	244	2,458	4,472	4,093	3,447	2,036	2,684	2,225	1,879
Philadelphia C. of Osteopathic Medicine	245	616	794	945	3,294	260	346	422	318
Texas Tech U., Health Sciences Center, El Paso	246	3,529	2,793	2,280	3,288	1,078	841	486	549
Wake Forest U.	247	2,369	3,042	3,538	3,260	2,123	1,856	2,459	2,321
Central Michigan U.	248	4,227	4,997	3,874	3,225	3,211	3,754	3,071	2,740
U. North Carolina, Charlotte	249	2,296	3,110	2,608	3,066	1,614	1,992	1,676	2,035
Idaho State U.	250	2,140	2,198	2,459	2,965	1,091	1,272	1,666	1,847
Murray State U.	251	2,345	3,048	2,399	2,962	1,317	2,149	1,496	2,117
Illinois State U.	252	2,158	2,992	2,008	2,936	1,672	2,500	1,692	2,649
Des Moines U.	253	1,056	1,377	2,809	2,931	691	647	4	4
South Dakota State U.	254	3,683	3,648	3,689	2,785	1,723	1,901	1,813	1,284
Wichita State U.	255	1,912	2,793	2,959	2,705	1,564	2,435	2,623	2,395
Touro U.	256	2,228	2,557	2,514	2,637	405	581	521	537
Tennessee State U.	257	1,179	1,133	2,425	2,551	1,065	934	2,266	2,396
U. California, San Francisco	258	1,247	2,267	2,358	2,520	357	750	681	433
Colorado School of Mines	259	2,185	1,948	1,549	2,458	1,662	1,423	1,513	1,927
Georgia Southern U.	260	1,202	452	5	2,442	91	129	5	338
San Jose State U.	261	1,014	1,130	1,542	2,431	821	1,002	1,268	1,047
SUNY, Polytechnic Institute	262	2,260	1,995	1,977	2,412	1,840	1,406	1,297	1,233
Alabama State U.	263	2,314	1,860	1,747	2,265	2,314	1,860	1,747	2,265
Tuskegee U.	264	151	2,230	2,274	2,263	151	1,719	1,753	1,850
Kennesaw State U.	265	1,646	1,431	4,759	2,202	698	653	618	609
Worcester Polytechnic Institute	266	2,049	1,791	2,104	2,188	1,257	1,087	954	1,065
Sam Houston State U.	267	1,198	1,994	1,382	2,145	177	250	379	869
Morgan State U.	268	2,680	3,643	2,906	2,121	2,624	3,552	2,890	2,121
Middle Tennessee State U.	269	1,033	1,005	1,359	2,096	555	610	599	766
Villanova U.	270	1,301	1,780	2,133	2,053	435	338	333	562

TABLE 45

**Total and federally financed higher education R&D expenditures in the biological and biomedical sciences, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Southern Illinois U., Edwardsville	271	34	208	1,047	2,023	7	123	271	467
U. West Florida	272	1,790	1,337	1,690	2,018	209	218	409	679
Southern Methodist U.	273	1,305	1,533	2,144	1,978	979	1,283	1,061	1,365
U. Arkansas, Little Rock	274	1,542	2,380	2,833	1,957	1,262	1,619	2,143	1,955
U. of the Virgin Islands	275	0	0	1,554	1,913	0	0	1,554	1,913
U. Missouri, Saint Louis	276	1,873	1,667	1,567	1,869	1,535	1,214	1,025	1,238
James Madison U.	277	957	771	1,099	1,865	503	629	533	952
California State U., Monterey Bay	278	2,115	2,116	2,006	1,861	2,042	1,993	1,859	1,817
Colorado State U., Pueblo	279	ne	1,223	1,676	1,845	ne	1,220	1,081	1,248
Indiana U. Pennsylvania	280	335	1,345	1,107	1,831	31	869	667	989
William & Mary	281	2,113	1,997	2,241	1,823	1,329	1,219	1,205	1,232
Michigan Technological U.	282	2,487	2,654	2,392	1,772	1,084	1,085	901	672
California State U., Fullerton	283	1,415	1,799	1,395	1,770	1,104	1,519	1,262	1,577
U. Massachusetts, Dartmouth	284	2,181	1,956	1,390	1,725	903	621	253	211
Bates C.	285	592	792	1,166	1,660	506	719	1,095	1,511
Oregon Institute of Technology	286	0	845	765	1,637	0	0	0	66
Reed C.	287	1,754	1,588	1,573	1,629	895	1,031	1,180	1,252
Fisk U.	288	1,889	4,520	3,427	1,601	1,889	4,473	3,427	1,579
CUNY, Queens C.	289	954	1,052	1,250	1,599	765	831	1,054	1,155
Alabama A&M U.	290	2,989	2,231	1,521	1,556	2,287	1,618	1,104	1,130
California State Polytechnic U., Pomona	291	1,949	1,602	1,818	1,555	1,009	992	1,365	1,216
Wellesley C.	292	1,099	1,330	1,454	1,554	1,032	1,021	1,326	1,418
Rochester Institute of Technology	293	871	903	1,238	1,551	590	594	668	763
Ball State U.	294	1,279	1,569	1,412	1,536	638	666	689	727
CUNY, Brooklyn C.	295	1,288	1,727	1,792	1,505	1,202	1,308	1,363	1,341
North Carolina Agricultural and Technical State U.	296	1,131	1,085	1,612	1,491	1,025	1,048	1,455	1,186
Wesleyan U.	297	1,744	1,810	909	1,469	682	954	382	581
U. Alabama, Huntsville	298	1,712	1,928	2,046	1,411	561	675	583	300
Texas A&M U.-Kingsville	299	1,297	1,115	1,386	1,328	993	898	1,120	1,157
Tennessee Technological U.	300	257	972	1,167	1,325	110	702	870	1,010
U.S. Military Academy	301	520	430	421	1,318	520	430	295	1,250
Smith C.	302	2,548	2,338	1,657	1,305	1,270	1,017	867	687
MGH Institute of Health Professions	303	1,212	1,537	1,427	1,300	1,212	1,537	1,427	1,300
U. Minnesota, Duluth	304	1,211	1,182	1,090	1,279	313	426	592	774

TABLE 45

**Total and federally financed higher education R&D expenditures in the biological and biomedical sciences, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed				
		2018	2019	2020	2021	2018	2019	2020	2021	
Bowdoin C.	305	1,216	1,206	1,196	1,262	954	940	869	1,002	
Amherst C.	306	667	1,419	1,064	1,259	i 408	606	608	527	
U. North Florida	307	882	741	907	1,243	390	307	310	720	
Duquesne U.	308	4,142	3,645	3,648	1,239	1,420	1,176	1,178	849	
Northern Illinois U.	309	766	695	436	1,232	477	390	176	646	
California State U., Stanislaus	310	958	836	1,163	1,222	400	449	752	702	
South Carolina State U.	311	436	i 1,133	1,175	i 1,217	i 331	i 1,133	1,175	i 1,217	i
Fordham U.	312	2,382	1,819	1,435	1,207	996	995	883	717	
California State U., Long Beach	313	2,714	2,389	2,110	1,201	2,242	2,109	1,849	947	
U. Akron	314	1,623	1,915	1,699	1,180	527	793	694	397	
Catholic U. of America	315	1,614	1,633	1,333	1,157	1,614	1,633	1,228	968	
C. Charleston	316	762	1,009	882	1,147	615	661	561	843	
Hope C.	317	698	477	629	1,130	408	407	282	408	
Bowling Green State U.	318	813	696	909	1,125	159	330	376	631	
Montclair State U.	318	717	1,152	1,422	1,125	654	810	948	861	
Appalachian State U.	320	1,125	1,339	840	1,089	430	387	345	371	
U. New Orleans	321	626	817	974	1,074	200	108	148	215	
Trinity C., Hartford	322	387	777	908	1,062	209	745	861	884	
Clark U.	323	1,107	1,288	1,134	1,059	576	827	705	649	
St. John's U., New York	324	1,044	837	998	1,045	790	745	819	898	
Rhode Island C.	325	437	528	540	1,041	425	510	504	1,021	
Eastern Michigan U.	326	877	1,065	1,350	1,037	261	504	763	467	
U. Maryland Center for Environmental Science	327	2,182	2,402	1,978	1,035	1,706	1,702	1,261	682	
U. Nebraska, Omaha	328	948	1,165	2,254	1,034	609	1,020	2,192	952	
Humboldt State U.	329	2,273	1,059	1,302	1,028	291	174	552	151	
Middlebury C.	330	644	317	506	1,017	600	296	374	999	
U. Colorado Denver <sup>e</sup>	331	na	na	na	1,012	na	na	na	942	
U. Hawaii, Hilo	332	1,539	1,754	1,548	996	1,125	1,437	1,145	657	
U. Nebraska, Kearney	333	858	842	775	995	485	469	405	545	
California State U., San Marcos	334	2,021	1,439	1,451	978	1,332	639	642	197	
U. Northern Colorado	335	857	999	896	963	334	377	389	457	
U. Texas of the Permian Basin	336	0	ne	328	962	0	ne	328	962	
U. of the Sciences Philadelphia	337	783	764	859	929	387	502	554	499	
Western Kentucky U.	338	1,841	1,530	1,307	924	923	893	706	354	

TABLE 45

**Total and federally financed higher education R&D expenditures in the biological and biomedical sciences, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Clarkson U.	339	894	765	902	920	592	417	442	565
California State U., San Bernardino	340	1,312	1,549	539	882	590	603	89	93
Florida Institute of Technology	341	1,360	1,384	667	875	878	965	423	538
Barnard C.	342	500	602	625	873	235	309	432	762
Hampton U.	343	886	794	783	872	886	794	783	872
U. Puerto Rico, Mayaguez	344	1,235	1,225	1,067	865	703	939	918	865
Missouri State U.	345	425	442	651	850	117	185	475	517
St. Edward's U.	346	641	1,010	825	825	550	1,000	800	800
Swarthmore C.	347	648	755	841	824	379	468	439	428
C. New Jersey	348	362	ne	649	819	352	ne	328	347
California State U., Channel Islands	349	756	779	707	807	0	0	0	0
Black Hills State U.	350	504	818	783	800	418	462	658	648
SUNY, Buffalo State	351	564	645	929	780	207	188	176	29
CUNY, Baruch C.	352	324	357	250	777	242	264	117	749
U. Texas, Tyler	353	561	470	541	774	327	261	259	540
U. Richmond	354	823	937	765	766	599	708	648	604
Elizabeth City State U.	355	1	ne	435	751	1	ne	428	751
Louisiana Tech U.	356	732	750	753	749	275	180	232	194
U. Tennessee, Chattanooga	357	688	749	843	746	429	564	552	594
California State U., Sacramento	358	658	682	682	735	1	17	125	126
U. Wisconsin-Oshkosh	358	723	i 728	i 731	i 735	643	i 639	i 635	i 630
Long Island U.	360	107	25	621	734	5	16	58	30
Morehead State U.	361	259	682	211	728	183	601	211	721
U. Colorado Colorado Springs	361	619	510	716	728	532	441	651	718
U. Alaska, Southeast	363	372	368	374	723	372	368	369	710
California State U., East Bay	364	ne	ne	439	720	ne	ne	58	291
American U.	365	1,168	1,225	1,235	719	359	505	476	282
Keck Graduate Institute	366	560	i 631	i 648	i 717	i 301	i 337	i 348	i 392
Bryn Mawr C.	367	1,018	781	640	709	298	212	100	194
California Polytechnic State U., San Luis Obispo	368	936	1,227	1,009	707	452	658	609	464
Jackson State U.	369	1,270	1,021	1,045	691	958	831	804	591
U. of the Pacific	370	787	803	641	687	683	674	326	434
Franklin and Marshall C.	371	709	745	572	677	565	593	502	584
Bucknell U.	372	1,069	608	743	i 674	305	245	361	i 354

TABLE 45

**Total and federally financed higher education R&D expenditures in the biological and biomedical sciences, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Montana Technological U.	373	907	1,006	708	661	483	478	339	305
U. South Carolina, Aiken	374	510	0	962	657	497	0	870	554
Northern Michigan U.	375	482	364	430	644	89	34	30	73
Loyola Marymount U.	376	162	488	407	637	22	272	233	243
Southeastern Louisiana U.	376	378	689	793	637	213	304	337	290
Doane U.	378	652	585	601	630	516	498	514	555
Grand Valley State U.	379	333	542	667	625	216	318	262	303
Seton Hall U.	380	724	810	138	607	724	810	138	607
U. Tulsa	380	645	785	500	607	349	357	267	330
U. Wisconsin-La Crosse	382	1,012	703	667	603	752	475	402	397
Northland C.	383	ne	ne	ne	602	ne	ne	ne	437
Williams C.	383	449	610	582	602	312	413	396	420
Davidson C.	385	414	507	322	595	240	272	200	259
Hofstra U.	386	334	412	337	590	300	360	308	358
Mercyhurst U.	387	ne	532	546	576	ne	215	222	233
William Paterson U.	388	545	442	512	571	23	32	81	201
Naval Postgraduate School	389	1,244	1,800	1,185	570	1,244	1,800	1,185	501
Northern Kentucky U.	390	253	450	458	562	130	282	257	330
Hawaii Pacific U.	391	637	560	594	557	523	459	570	557
Missouri U. of Science and Technology	392	956	921	970	553	152	143	130	97
Western Washington U.	393	502	718	721	548	270	249	243	175
Christopher Newport U.	394	428	584	644	536	101	132	160	70
Oklahoma State U., Center for Health Sciences	395	0	425	452	531	0	3	0	70
Gallaudet U.	396	1,463	818	853	525	102	0	0	0
U. North Carolina, general administration	397	45	263	0	522	0	0	0	0
West Virginia School of Osteopathic Medicine	397	ne	ne	629	522	ne	ne	52	59
Roger Williams U.	399	160	246	177	521	143	178	166	367
Saint Joseph's U.	400	376	434	726	517	103	116	460	362
Keene State C.	401	ne	542	956	510	ne	542	955	510
Langston U.	401	1,355	1,264	1,650	510	1,158	1,026	1,650	510
Colgate U.	403	737	726	478	507	293	246	84	331
Calvin U.	404	470	503	481	501	426	449	431	457
Carleton C.	404	339	532	256	501	42	108	82	115
Tougaloo C.	404	0	274	503	501	0	274	503	501

TABLE 45

**Total and federally financed higher education R&D expenditures in the biological and biomedical sciences, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
U. Washington, Bothell	407	181	314	0	493	39	252	0	323
Clafin U.	408	242	350	857	492	242	350	854	482
CUNY, Graduate School of Public Health and Health Policy	408	0	413	688	492	0	413	688	492
Eastern Kentucky U.	410	671	774	609	488	496	473	334	335
Spelman C.	411	554	478	604	484	554	478	604	484
California State U., Los Angeles	412	1,394	2,424	1,949	476	1,394	1,715	1,512	319
Willamette U.	413	753	278	169	472	368	143	35	367
Dillard U.	414	486	1,270	1,099	470	270	414	500	70
U. Central Arkansas	415	378	412	398	462	153	205	242	303
Indiana State U.	416	526	709	690	456	346	450	327	78
Trinity U.	417	429	452	499	455	107	95	296	184
Towson U.	418	401	626	531	450	308	414	361	305
California State U., Fresno	419	1,517	614	449	448	1,265	596	362	440
Dordt U.	420	ne	ne	ne	427	ne	ne	ne	406
Grinnell C.	421	990	363	487	423	221	41	29	17
Western Carolina U.	422	296	358	279	421	49	91	66	205
Tarleton State U.	423	50	9	249	415	0	0	15	0
Providence C.	424	606	589	422	414	543	469	347	283
U. Guam	425	307	208	291	411	259	196	205	323
CUNY, C. Staten Island	426	306	295	554	407	145	177	377	347
National Defense U.	427	0	0	200	400	0	0	200	400
Mount Holyoke C.	428	71	142	359	398	20	87	333	376
Pepperdine U.	428	299	329	597	398	279	303	121	282
U. Puerto Rico, Cayey	430	0	404	601	392	0	0	237	145
Santa Clara U.	431	128	252	576	386	128	252	463	356
Salisbury U.	432	178	396	366	381	0	4	32	88
Xavier U. Louisiana	433	453	765	1,070	378	340	710	987	354
DePaul U.	434	470	332	296	371	231	267	264	281
Harvey Mudd C.	435	298	457	520	364	178	323	444	316
CUNY, New York City C. of Technology	436	609	631	496	362	458	487	394	311
Prairie View A&M U.	437	209	193	379	353	203	185	369	320
Fort Lewis C.	438	ne	289	231	352	ne	241	187	352
Northeastern Illinois U.	439	399	328	249	351	399	328	249	351
Skidmore C.	439	225	150	85	351	145	122	69	330

TABLE 45

**Total and federally financed higher education R&D expenditures in the biological and biomedical sciences, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
West Chester U. Pennsylvania	441	430	659	459	350	193	414	337	240
Central Washington U.	442	580	517	428	336	254	206	179	122
U. Wisconsin-Green Bay	443	250 i	315 i	306 i	335 i	105 i	151 i	164 i	172 i
Western Illinois U.	444	1,068	1,195	852	334	833	969	653	274
Liberty U.	445	ne	861	247	333	ne	385	44	45
Biola U.	446	287 i	308 i	319 i	331 i	163 i	177 i	183 i	192 i
Minnesota State U., Mankato	447	138	187	63	329	78	136	0	300
U. North Carolina, Asheville	448	497	505	493	322	61	75	73	14
U.S. Air Force Academy	449	341	140	0	317	0	140	0	317
U. Central Oklahoma	450	314	303	303 i	316 i	270	231	229 i	240 i
Haverford C.	451	746 i	582 i	926 i	313 i	292	133	109	95
Furman U.	452	414	254	335	309	297	236	309	281
U. Louisiana, Monroe	453	300	326	410	298	288	305	409	298
Lincoln U., Jefferson City	454	253	252	227	297	253	252	227	297
Fort Hays State U.	455	ne	370	478	296	ne	321	388	226
Pace U.	455	372	532	431	296	184	476	386	288
Southern U. and A&M C., Agricultural Research and Extension Center	457	0	489	298	295	0	0	0	140
New Mexico Institute of Mining and Technology	458	226	395	260	290	226	387	255	244
Lewis and Clark C.	459	571	584	651	288	459	526	538	258
Pomona C.	459	282	296	338	288	95	81	180	202
Occidental C.	461	116	560	278	279	70	478	199	279
Claremont McKenna C.	462	364	337	396	274	364	337	396	274
Colby C.	463	651	639	304	270	538	538	243	186
St. Cloud State U.	463	1,031	833	349	270	312	386	126	6
U. of the Incarnate Word	465	32	197	327	268	0	56	14	81
Southern U. and A&M C., Baton Rouge	466	168	210	128	261	168	183	128	261
U. Hawaii, Maui C.	467	ne	ne	ne	253	ne	ne	ne	241
Purdue U., Fort Wayne	468	861	665	483	252	164	122	117	44
Texas Woman's U.	469	431	636	562	251	91	325	430	123
Mercer U.	470	233	239	235	250	0	0	0	0
Pennsylvania State U., Harrisburg	471	33	36	82	248	19	20	76	18
C. Wooster	472	375	483	242	242 i	168	84	76	81 i
Winthrop U.	473	384	254	100	240	235	100	64	103
Connecticut C.	474	663	348	275	232	192	95	48	89



TABLE 45

**Total and federally financed higher education R&D expenditures in the biological and biomedical sciences, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
U. South Alabama	474	413	403	87	232	225	211	41	133
Oberlin C.	476	403	949	285	230	265	815	252	214
New York Institute of Technology	477	179	294	283	227	60	294	283	227
Eastern Connecticut State U.	478	76	300	376	205	17	169	177	107
U. Wisconsin-Stevens Point	478	190 i	202 i	214	205	1 i	2 i	2	2
U. Washington, Tacoma	480	0	24	1	203	0	0	0	203
Eastern Washington U.	481	67	66	186	193	0	0	155	188
U. Wisconsin-Platteville	482	ne	109 i	111 i	191 i	ne	41 i	41 i	53 i
California State U., Bakersfield	483	426	295	223	189	396	92	70	53
Winston-Salem State U.	483	579	449	684	189	579	449	677	189
Texas A&M International U.	485	494	64	9	185	398	0	0	65
St. Olaf C.	486	280	128	90	182	97	0	0	102
U. of St. Thomas (MN)	486	375	471	514	182	174	196	242	113
CUNY, Lehman C.	488	384	0	255	181	320	0	136	78
Saint John's U.	489	112	109 i	104 i	180 i	0	0 i	0 i	0 i
U. Southern Maine	489	276	143	195	180	122	16	60	63
C. of Saint Benedict	491	124	122 i	116 i	178 i	0	0 i	0 i	14 i
U. Ana G. Mendez, Gurabo	492	311	337	648	175	249	309	446	120
Azusa Pacific U.	493	173	259	126	174	0	0	0	0
U. Wisconsin-Eau Claire	493	101	86	80	174	30	35	30	42
Coastal Carolina U.	495	278	305	98	173	277	268	98	75
Vassar C.	496	60 i	34	197	172	60 i	13	16	87
Sonoma State U.	497	ne	ne	197	170	ne	ne	161	169
Central State U.	498	8	46	59	164	8	46	59	164
Fort Valley State U.	498	249	185	129	164	208	162	121	121
New Mexico Highlands U.	498	150	ne	171	164 i	0	ne	115	120 i
U. Northern Iowa	498	57	63	104	164	48	44	35	0
U. Dayton	502	202	168	217	163	167	145	205	163
U. of Mary Washington	503	12	100	132	155	7	64	85	119
Colorado C.	504	147	117	121	144	19	12	20	1
Central Connecticut State U.	505	ne	112	131	142	ne	31	73	97
Texas Christian U.	506	58	215	311	138	0	0	57	138
Southern Connecticut State U.	507	210	98	357	132	0	0	17	16
CUNY, York C.	508	ne	359	485	129	ne	340	450	71

TABLE 45

**Total and federally financed higher education R&D expenditures in the biological and biomedical sciences, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
SUNY, Oswego	508	383	354	281	129	220	218	190	72
Ithaca C.	510	ne	ne	138	128	ne	ne	132	109
U. Virginia's C. Wise	511	ne	ne	ne	125	ne	ne	ne	111
Hamilton C.	512	251	180	81	122	12	51	26	86
Pacific U.	513	165	259	160	121	5	15	25	76
U. New Haven	513	121	74	35	121	27	24	9	25
U. Maryland, Eastern Shore	515	0	0	269	120	0	0	269	120
California State U., Chico	516	229	310	184	111	216	282	170	111
CUNY, Graduate Center	517	59	51	116	110	34	46	87	92
Pittsburg State U.	517	171	243	178	110	141	236	178	109
Elon U.	519	69	79	140	108	0	0	0	39
Macalester C.	519	290	343	297	108	79	108	121	10
SUNY, Geneseo	519	194	233	131	108	80	150	58	61
Citadel Military C. South Carolina	522	ne	ne	75	103	ne	ne	49	77
Abilene Christian U.	523	ne	ne	ne	101	ne	ne	ne	0
Bowie State U.	524	75	122	414	96	75	122	414	96
Albany State U.	525	254	253	143	94	254	253	143	94
Florida Gulf Coast U.	525	144	51	0	94	31	0	0	62
Stevens Institute of Technology	525	2	0	0	94	2	0	0	83
U. Wisconsin-River Falls	525	120	ne	99	94	95	ne	46	16
Lafayette C.	529	57	82	87	93	50	80	50	55
Marymount U.	529	ne	ne	ne	93	ne	ne	ne	0
Morehouse C.	531	80	98	120	90	80	98	120	90
Norfolk State U.	532	53	108	114	88	53	108	114	88
U. Puerto Rico, Humacao	533	233	284	229	86	233	284	229	86
Virginia State U.	534	0	15	24	83	0	15	24	38
U. San Francisco	535	160	88	65	81	24	19	0	19
Stephen F. Austin State U.	536	100	75	57	80	0	0	0	0
U. Michigan, Dearborn	537	204	152	121	75	174	69	112	75
Albion C.	538	125	98	76	74	0	0	0	0
SUNY, C. Brockport	539	302	263	299	67	278	193	291	61
Union C., Schenectady	540	53	80	45	64	29	14	13	4
U. of the District of Columbia	541	22	0	0	63	22	0	0	63
Saginaw Valley State U.	542	63	63	62	62	0	0	0	0

TABLE 45

**Total and federally financed higher education R&D expenditures in the biological and biomedical sciences, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Troy U.	542	ne	ne	176	62	ne	ne	157	37
Jacksonville State U.	544	192	114	44	61	11	14	16	31
Pennsylvania State U., Behrend	545	50	75	21	55	15	17	15	0
Austin Peay State U.	546	465	705	60	50	0	35	49	50
Indiana U., South Bend	547	75	ne	ne	49	0	ne	ne	0
Manhattan C.	547	ne	82	56	49	ne	0	0	0
Niagara U.	547	89	94	76	49	0	0	0	0
Hobart and William Smith Colleges	550	ne	150	79	45	ne	82	39	37
CUNY, John Jay C. of Criminal Justice	551	489	132	49	43	446	113	39	43
U. Houston-Clear Lake	552	211	52	44	42	179	9	20	38
New School	553	0	0	0	40	0	0	0	27
CUNY, system office	554	43	30	84	37	0	3	84	37
U. San Diego	554	200	106	92	37	22	22	31	19
Monmouth U.	556	ne	56	85	35	ne	0	0	0
Suffolk U.	557	ne	ne	29	33	ne	ne	29	33
Texas A&M U.-Commerce	558	868	265	144	31	66	0	8	0
U. North Georgia	558	0	52	16	31	0	2	16	31
Fayetteville State U.	560	416	328	408	30	416	328	408	30
Florida A&M U.	561	172	153	67	29	88	97	61	29
Purdue U., Northwest	561	53	52	18	29	28	39	5	28
Seattle U.	561	288	248	156	29	82	116	86	25
U. Michigan, Flint	564	100	41	32	28	1	0	0	0
U. Houston-Downtown	565	71	37	46	25	0	0	0	0
Wheaton C., Wheaton	566	35	5	23	24	0	0	0	0
Lamar U.	567	132	122	55	23	38	0	27	0
U. Minnesota, Morris	568	ne	40	59	20	ne	0	0	0
Drake U.	569	67	31	ne	17	32	10	ne	8
Fairfield U.	570	136	78	230	14	136	78	191	0
Youngstown State U.	570	6	69	74	14	0	0	0	0
Rutgers, State U. New Jersey, Camden	572	0	25	225	13	0	0	0	0
West Texas A&M U.	573	53	27	21	10	0	0	0	0
Kettering U.	574	19	26	53	8	19	21	4	0
Northwestern State U. Louisiana	575	16	50	131	7	0	0	0	0
La Sierra U.	576	64	132	101	5	43	32	4	0

TABLE 45

**Total and federally financed higher education R&D expenditures in the biological and biomedical sciences, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Savannah State U.	577	543	183	22	3	543	183	22	3
U. Illinois, Springfield	578	3	0	1	2	0	0	0	0
All other surveyed institutions	-	174,252	21,972	15,966	0	111,629	11,347	6,302	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

<sup>a</sup> Johns Hopkins University includes the Applied Physics Laboratory (APL), with \$25,841 thousand imputed for total and \$24,564 thousand reported for federally financed R&D expenditures in biological and biomedical sciences in FY 2021. Total expenditures by field for Johns Hopkins University are flagged as imputed because APL was unable to distribute a portion of institutionally funded R&D by field.

<sup>b</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

<sup>c</sup> The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

<sup>d</sup> The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

<sup>e</sup> The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

**Note(s):**

Institutions reporting zero expenditures in ranked total for FY 2021 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 46

**Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
All institutions	-	25,774,623	27,267,137	28,001,450	29,884,728	13,393,534	14,173,989	14,707,735	16,138,445
U. California, San Francisco	1	1,531,475	1,526,889	1,579,053	1,637,342	633,646	631,806	634,237	645,077
U. California, Los Angeles	2	879,537	887,293	955,580	1,019,775	367,948	393,177	437,643	502,185
Yale U.	3	632,347	691,959	726,089	779,001	333,155	350,340	367,588	415,334
U. California, San Diego	4	724,886	754,309	765,869	762,778	362,520	372,590	377,281	419,886
U. North Carolina, Chapel Hill	5	668,660	680,788	700,352	733,607	374,638	387,808	398,199	426,102
Duke U.	6	718,370	749,965	717,323	721,730	323,754	355,135	353,311	383,958
Johns Hopkins U. <sup>a</sup>	7	703,372	727,074	736,373	719,743	473,490	478,556	492,957	495,734
U. Texas M. D. Anderson Cancer Center	8	584,317	612,732	654,098	714,145	81,643	80,140	90,726	114,464
Ohio State U.	9	372,386	406,318	422,365	700,303	200,597	211,721	225,112	245,788
U. Washington, Seattle	10	620,609	655,372	660,692	685,723	465,210	486,924	489,241	488,597
U. Pittsburgh, Pittsburgh	11	583,096	641,144	659,733	678,383	373,157	396,027	400,747	421,306
Stanford U.	12	553,597	614,159	572,268	622,630	318,415	349,539	323,047	359,980
U. Michigan, Ann Arbor	13	578,171	632,969	622,140	604,587	315,198	339,982	333,024	333,812
Vanderbilt U. and Vanderbilt U. Medical Center	14	388,100	408,035	441,313	599,247	282,113	287,597	303,327	361,743
Emory U.	15	451,672	524,939	535,117	571,627	216,736	236,157	264,862	307,719
Columbia U. in the City of New York	16	485,235	524,495	531,123	563,787	340,645	379,363	391,314	422,968
U. Colorado Anschutz Medical Campus <sup>b</sup>	17	na	na	na	550,101	na	na	na	357,186
U. Minnesota, Twin Cities	18	410,600	461,261	474,705	514,691	206,667	225,592	231,480	274,027
Washington U., Saint Louis	19	403,124	442,275	465,122	498,196	245,508	264,808	272,506	290,293
Northwestern U.	20	406,467	446,421	451,059	474,272	246,040	270,784	287,948	302,805
New York U.	21	361,753	377,195	389,211	469,714	184,518	196,303	203,772	267,032
U. Southern California	22	428,328	408,849	427,949	468,905	183,001	198,583	215,128	235,884
U. Wisconsin-Madison	23	440,649	472,274	451,868	467,332	171,827	185,312	177,594	185,553
U. Alabama, Birmingham	24	388,367	396,340	409,345	439,145	232,933	246,156	242,728	265,640
Icahn School of Medicine at Mount Sinai	25	339,870	363,092	387,114	428,618	229,460	244,978	272,264	318,922
U. Texas Southwestern Medical Center	26	294,403	310,308	377,001	408,377	125,321	128,317	154,128	156,620
U. Maryland <sup>c</sup>	27	na	378,537	366,476	390,634	na	237,875	215,647	215,882
Cornell U.	28	309,881	336,554	370,944	384,742	117,383	137,876	161,371	185,010
U. Cincinnati	29	317,083	362,786	363,772	380,364	189,481	191,320	223,432	239,842
Baylor C. of Medicine	30	313,453	353,039	374,095	371,964	110,484	137,666	148,425	168,837
U. Utah	31	345,008	321,728	361,988	369,765	182,554	151,742	177,544	186,207
Indiana U., Bloomington	32	282,830	341,217	367,228	369,296	116,415	154,864	162,496	168,420
Uniformed Services U. of the Health Sciences	33	296,793	405,214	315,313	359,418	210,618	288,742	228,596	257,125

TABLE 46

**Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
U. Florida	34	324,898	342,498	327,963	344,705	135,856	143,967	142,251	156,907
U. Pennsylvania	35	270,535	301,611	326,566	329,713	147,038	153,088	153,364	171,402
Rutgers, State U. New Jersey, New Brunswick	36	347,582	294,976	319,113	319,883	152,341	122,619	131,115	165,473
Albert Einstein C. of Medicine	37	297,328	298,824	288,654	301,715	196,457	202,513	204,635	214,619
Oregon Health and Science U.	38	175,814	177,687	265,157	278,801	123,389	134,016	184,045	195,006
U. Iowa	39	255,499	260,702	284,636	278,735	114,237	118,355	123,855	130,852
Boston U.	40	158,951	187,252	208,709	276,870	103,685	118,893	118,255	181,093
U. Chicago	41	192,128	212,930	219,525	254,022	127,596	146,121	163,943	194,258
Case Western Reserve U.	42	277,399	284,229	283,260	252,185	227,254	237,106	231,431	206,937
Wake Forest U.	43	186,333	227,411	232,490	250,518	149,776	161,380	162,023	184,166
U. California, Davis	44	211,803	215,845	229,577	247,406	108,091	113,073	122,802	126,788
U. Illinois, Chicago	45	193,010	207,754	222,385	237,347	107,797	116,209	128,953	139,546
U. Miami	46	214,208	210,762	218,739	215,596	94,426	97,927	98,788	98,956
U. Rochester	47	190,887	194,845	205,158	214,686	130,266	129,064	128,290	137,802
U. New Mexico	48	123,881	113,308	115,028	213,149	77,576	68,059	68,385	156,667
U. California, Irvine	49	151,640	162,497	174,686	190,252	64,948	66,776	78,599	79,591
Texas A&M U., College Station and Health Science Center	50	78,732	77,896	220,948	188,730	26,916	29,277	171,384	139,429
Medical C. Wisconsin	51	148,465	162,969	171,901	185,395	62,164	67,941	75,097	81,557
U. Virginia, Charlottesville	52	152,594	172,559	189,679	172,524	50,344	48,783	57,711	59,905
U. Kansas	53	135,493	142,295	154,245	168,897	54,878	59,800	69,398	83,587
Georgetown U.	54	127,918	136,787	138,679	167,962	64,369	64,256	66,199	99,766
U. Arizona	55	167,652	161,471	160,542	162,748	68,196	61,132	58,241	71,073
SUNY, U. Buffalo	56	165,515	164,551	150,541	154,302	60,158	58,617	59,728	62,571
Wayne State U.	57	148,674	153,084	154,653	146,425	71,133	74,502	74,025	72,186
Virginia Commonwealth U.	58	124,616	121,490	137,007	140,319	56,725	51,872	57,194	60,154
U. Texas Health Science Center, Houston	59	103,889	114,095	118,123	138,943	45,982	51,093	53,123	72,125
Harvard U.	60	136,254	137,745	122,619	133,571	64,248	62,263	54,439	74,024
U. Texas Health Science Center, San Antonio	61	97,257	104,703	112,594	126,181	47,567	54,241	53,745	58,379
U. Arkansas for Medical Sciences	62	92,515	99,586	105,955	122,965	25,404	30,247	31,804	47,652
George Washington U.	63	117,455	121,699	126,901	122,447	81,460	78,924	84,188	83,219
Thomas Jefferson U.	64	84,064	96,914	96,265	117,226	28,675	31,857	32,350	59,891
U. Oklahoma, Norman and Health Science Center	65	98,313	107,128	119,319	116,506	37,111	41,090	43,535	46,790
U. South Florida <sup>d</sup>	66	84,743	83,200	72,093	109,397	19,593	20,003	24,754	33,784
U. Nebraska, Medical Center	67	89,480	90,837	96,786	101,144	32,925	31,791	34,622	39,568

TABLE 46

**Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
U. Massachusetts, Medical School	68	106,512	92,702	94,555	100,911	74,526	62,020	61,778	62,856
Temple U.	69	85,549	95,903	93,790	94,116	56,284	63,267	58,687	62,141
Medical U. South Carolina	70	92,240	99,495	86,364	93,409	38,607	43,635	44,041	48,670
Rush U.	71	72,261	75,399	78,672	92,716	47,961	49,170	51,186	60,853
Pennsylvania State U., University Park and Hershey Medical Center	72	88,833	84,968	90,967	91,303	45,299	46,064	49,889	51,789
Purdue U., West Lafayette	73	64,066	73,660	85,839	88,853	24,261	24,555	29,679	33,916
U. Louisville	74	87,100	82,529	91,134	87,611	30,092	29,886	28,362	29,156
U. Missouri, Columbia	75	51,464	62,918	78,021	79,594	25,048	28,328	35,673	44,407
Dartmouth C. and Dartmouth Hitchcock Medical Center	76	83,026	80,692	83,046	78,745	48,440	43,999	43,926	44,449
U. Kentucky	77	64,652	73,619	77,295	77,779	32,406	40,585	47,572	52,260
U. Connecticut	78	72,241	76,662	64,335	74,770	40,200	43,145	38,304	47,916
U. Tennessee, Health Science Center	79	61,918	74,555	72,349	74,246	26,501	27,654	28,260	33,007
Augusta U.	80	60,286	56,610	60,177	69,850	23,586	22,378	25,747	30,933
U. South Carolina, Columbia	81	57,608	52,099	80,412	69,832	36,380	39,967	43,207	43,436
West Virginia U.	82	62,055	60,670	58,047	69,644	16,777	20,341	18,908	24,940
U. Texas, Austin	83	42,958	56,232	62,010	69,548	21,815	29,182	28,826	36,365
U. Vermont	84	47,413	48,324	64,224	63,210	30,298	31,802	33,364	37,336
SUNY, Stony Brook U.	85	54,660	57,903	59,949	63,040	24,994	25,783	26,694	32,165
Washington State U.	86	40,812	47,568	49,070	59,282	24,820	34,114	32,030	36,732
U. California, Berkeley	87	65,785	61,002	55,230	58,481	34,645	33,036	25,243	26,345
Michigan State U.	88	59,646	65,910	60,154	57,339	26,398	32,480	27,534	28,328
U. Mississippi	89	55,582	60,209	67,047	56,848	29,177	29,781	46,807	39,086
Drexel U.	90	45,559	49,628	47,466	53,152	21,707	26,328	25,113	30,650
Virginia Polytechnic Institute and State U.	91	48,797	49,883	47,236	51,942	16,132	19,397	19,730	21,979
Tufts U.	92	22,399	19,295	31,949	48,230	12,812	14,964	25,561	38,262
Tulane U.	93	37,352	36,399	41,445	46,935	15,257	14,594	16,346	21,498
Brown U.	94	49,630	45,463	41,744	46,024	37,965	34,347	31,743	37,100
U. Hawaii, Manoa	95	54,265	52,177	47,531	45,709	37,714	36,629	32,477	28,587
U. Texas Medical Branch	96	49,895	43,303	42,087	44,920	30,434	27,545	27,779	31,585
U. Puerto Rico, Medical Sciences Campus	97	41,216	44,985	37,081	43,846	30,597	34,541	26,897	32,997
U. California, Office of the President	98	36,393	50,092	40,585	40,336	184	202	123	191
Saint Louis U.	99	27,466	29,373	31,213	37,487	12,719	16,774	15,722	23,081
Arizona State U.	100	26,836	31,611	39,268	37,201	10,933	15,503	15,960	15,101
U. North Texas, Health Science Center	101	29,675	28,110	28,703	36,100	19,949	18,111	18,800	23,830

TABLE 46

**Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
U. Georgia	102	35,091	50,860	32,872	35,774	10,661	10,985	12,548	13,291
Florida State U.	103	25,392	32,890	37,353	35,745	11,696	17,293	19,862	17,927
Morehouse School of Medicine	104	33,215	31,289	29,813	32,637	24,326	22,461	22,500	25,181
U. Montana, Missoula	105	20,846	24,465	25,707	30,176	18,053	19,683	21,652	26,382
Colorado State U., Fort Collins	106	46,652	37,787	24,849	28,615	30,361	24,560	19,151	17,382
SUNY, Upstate Medical U.	107	21,703	22,363	26,810	27,911	11,924	9,786	13,081	12,654
U. Delaware	108	24,182	26,922	28,705	25,483	17,192	19,058	21,603	19,296
U. South Alabama	109	10,269	13,406	18,893	23,884	5,861	8,150	11,871	12,509
Louisiana State U., Health Sciences Center, New Orleans	110	19,849	20,974	23,192	23,148	11,845	14,317	14,392	15,847
SUNY, U. Albany	111	60,653	68,363	32,478	22,998	46,069	51,657	27,935	20,138
U. Texas, Dallas	112	25,181	31,036	29,609	22,215	8,370	11,546	13,568	10,719
Ponce Health Sciences U.	113	7,857	11,390	13,566	22,009	6,386	8,339	11,228	16,996
Howard U.	114	19,482	17,872	18,156	21,927	15,474	13,134	12,922	16,300
Loyola U., Chicago	115	20,136	17,674	18,529	21,272	10,130	9,742	9,898	10,324
Massachusetts Institute of Technology	116	22,812	19,499	20,529	21,012	11,679	14,181	14,516	16,015
U. Nevada, Reno	117	17,682	18,515	19,029	20,341	10,176	9,170	8,277	11,439
Texas Tech U., Health Sciences Center	118	21,383	22,752	21,574	20,173	3,369	3,596	3,500	3,996
U. Texas Rio Grande Valley	119	11,955	17,789	19,143	19,785	4,328	4,808	3,852	3,884
Iowa State U.	120	23,102	26,137	15,103	19,767	5,923	7,414	5,715	6,315
U. Houston	121	22,924	20,004	21,435	19,265	9,597	10,244	10,906	10,820
U. New Hampshire	122	14,602	14,712	15,276	18,883	9,030	9,133	9,845	11,612
U. Louisiana, Lafayette	123	0	51,140	18,497	18,818	0	12,290	8,299	10,130
New Jersey Institute of Technology	124	25,059	24,859	17,662	18,355	22,070	18,422	13,727	6,854
U. Nevada, Las Vegas	125	12,751	20,056	21,019	18,321	6,542	6,120	5,767	4,992
East Carolina U.	126	20,478	32,861	30,285	18,142	5,831	10,963	11,137	7,931
Southern Illinois U., Carbondale	127	20,361	16,778	16,628	17,958	4,314	4,437	3,925	3,907
U. Toledo	128	17,191	20,923	20,743	17,417	8,210	9,880	9,989	10,253
San Diego State U.	129	12,874	15,226	12,357	15,949	8,935	10,733	8,423	11,113
U. Nebraska, Lincoln	130	19,422	18,492	16,883	15,853	8,627	7,719	5,797	6,214
Florida International U.	131	12,635	16,019	13,961	15,751	3,010	3,190	2,603	2,063
U. California, Riverside	132	8,756	10,797	12,788	15,576	5,317	6,568	9,783	12,326
Auburn U., Auburn	133	26,623	28,160	10,995	15,343	2,159	1,615	1,657	1,261
U. Central Florida	134	10,783	17,034	13,876	15,294	2,857	2,848	2,422	4,402
Indiana U.-Purdue U., Indianapolis	135	13,353	14,273	14,127	14,909	4,585	5,579	5,576	5,645



TABLE 46

**Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Rockefeller U.	136	14,412	14,318	14,643	14,694	6,150	5,819	4,473	5,072
U. North Dakota	137	11,708	12,059	14,048	13,774	5,025	5,940	7,807	7,943
CUNY, Graduate School of Public Health and Health Policy	138	7,290	7,388	10,057	13,481	3,757	3,439	6,602	10,700
Marshall U.	139	11,238	10,844	12,186	13,300	5,808	6,218	8,118	7,715
Charles R. Drew U. of Medicine and Science	140	11,490	13,739	13,682	13,228	10,198	10,427	9,863	9,945
Louisiana State U., Health Sciences Center, Shreveport	141	13,849	14,390	13,911	12,906	1,529	2,267	1,658	2,167
Nova Southeastern U.	142	13,414	14,236	13,298	12,827	3,540	4,725	4,572	5,098
U. Missouri, Kansas City	143	7,796	11,919	14,403	12,701	3,513	7,586	9,111	7,427
Montana State U., Bozeman	144	10,054	11,971	10,030	12,186	6,476	8,195	7,076	9,302
Wichita State U.	145	6	57	21	11,491	3	0	9	3,937
Georgia State U.	146	22,235	11,424	13,803	10,926	11,124	9,780	10,882	7,260
Central Michigan U.	147	3,219	2,910	4,390	10,781	1,421	1,046	844	904
Florida A&M U.	148	8,599	7,880	8,427	10,567	7,300	6,874	7,301	9,150
Creighton U.	149	8,887 i	10,406 i	8,797 i	10,453 i	2,429 i	3,497 i	3,209 i	3,874 i
Northeastern U.	150	9,442	10,429	10,384	10,371	4,328	4,454	4,591	4,148
Eastern Virginia Medical School	151	23,540	18,318	10,902	10,181	17,085	13,393	8,927	8,154
U. Tennessee, Knoxville <sup>e</sup>	152	6,020	6,503	9,977	10,025	2,387	3,123	4,173	4,309
U. Texas, Arlington	153	5,317	9,698	9,511	9,984	1,306	3,508	5,042	4,860
U. Massachusetts, Amherst	154	19,867	19,940	10,047	9,953	10,708	12,576	6,464	6,288
U. Alabama, Tuscaloosa	155	3,507	4,869	5,383	8,980	877	1,589	2,364	3,177
CUNY, Queens C.	156	0	0	9,978	8,822	0	0	8,321	7,374
Oregon State U.	157	6,803	8,154	7,447	8,767	4,836	5,839	5,837	7,005
George Mason U.	158	7,286	6,467	7,187	8,558	4,024	2,767	3,326	4,519
Florida Atlantic U.	159	7,705	7,432	7,865	8,431	2,597	3,572	3,380	4,374
New York Medical C.	160	4,188 i	11,126 i	7,585	7,563	4,188 i	6,143 i	3,010	3,308
Clemson U.	161	2,625	5,822	7,465	7,534	1,198	1,387	1,847	2,070
North Dakota State U.	162	15,894	17,936	8,713	7,484	5,834	6,703	5,142	4,987
Ohio U.	163	8,579 i	7,681	7,158	7,371	1,955	2,215	2,501	3,302
SUNY, Binghamton U.	164	8,957	7,085	8,035	7,345	1,222	1,490	1,319	897
Texas Tech U., Health Sciences Center, El Paso	165	8,616	8,856	8,014	7,267	1,411	1,397	1,189	1,017
Brandeis U.	166	0	0	2,047	7,156	0	0	1,318	6,466
Rowan U.	167	4,559	6,652	7,836	6,962	2,919	2,909	3,446	2,798
Loma Linda U.	168	9,898 i	8,895 i	7,892 i	6,889	5,636 i	5,123 i	4,608 i	4,095
Edward Via C. of Osteopathic Medicine	169	7,601	7,225	7,474	6,629	195	749	565	537

TABLE 46

**Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Long Island U.	170	1,541	4,536	5,905	6,428	1,333	1,381	1,103	2,177
Oklahoma State U., Center for Health Sciences	171	2,497	4,390	7,164	6,397	959	848	2,469	1,864
Albany Medical C.	172	6,819	6,792	6,360	6,322	331	607	677	466
U. Massachusetts, Lowell	173	3,551	2,942	5,198	6,255	1,783	945	1,417	2,921
Georgia Institute of Technology	174	4,671	4,846	20,316	6,213	0	0	13,779	141
U. Nebraska, Omaha	175	3,549	2,599	3,445	6,071	2,921	1,989	2,658	5,331
Old Dominion U.	176	4,683	4,708	4,585	5,972	3,397	2,081	2,186	1,537
Roseman U. of Health Sciences	177	3,973	4,176	i 4,380	5,893	18	37	i 56	53
Oklahoma State U., Stillwater	178	10,329	9,576	8,614	5,881	2,222	1,248	1,106	603
Miami U.	179	2,802	4,422	5,586	5,813	214	365	1,085	1,133
U. Texas, El Paso	180	6,979	7,504	6,503	5,638	1,412	1,958	2,007	1,958
Mercer U.	181	5,112	5,294	5,307	5,592	1,181	1,233	1,457	1,892
Marquette U.	182	3,223	4,461	4,570	5,545	840	1,477	1,771	2,391
Northern Arizona U.	183	2,036	2,807	5,180	5,522	497	1,178	3,702	3,033
Texas Tech U.	184	5,879	6,365	5,204	5,392	445	597	570	760
U. Wisconsin-Milwaukee	185	5,547	5,839	6,129	5,344	1,964	2,671	3,092	3,354
U. of Health Sciences and Pharmacy in St. Louis	186	ne	ne	4,835	5,313	ne	ne	3,767	4,063
U. Memphis	187	5,681	5,463	5,192	5,201	1,279	1,053	1,139	1,812
East Tennessee State U.	188	4,282	i 3,405	i 4,145	i 4,923	i 2,092	1,456	2,564	1,907
Southern Illinois U., Edwardsville	189	3,088	1,066	3,799	4,878	741	1,048	961	1,115
Duquesne U.	190	6,461	5,950	6,266	4,846	2,534	2,089	2,181	2,857
U. Colorado Boulder	191	6,593	5,714	5,377	4,708	4,728	3,747	3,939	3,515
Wright State U.	192	7,204	8,004	5,732	4,651	4,265	4,070	3,109	2,968
U. Illinois, Urbana-Champaign	193	19,229	25,462	2,845	4,630	5,617	8,907	722	1,159
Northeast Ohio Medical U.	194	10,236	9,108	6,717	4,451	3,959	3,673	3,274	2,274
Chapman U.	195	2,384	2,578	2,761	4,337	1,240	1,587	1,810	2,377
Midwestern U.	196	3,778	3,950	3,907	4,302	262	491	455	705
U. Missouri, Saint Louis	197	2,069	4,746	5,458	4,141	1,528	2,357	2,591	2,097
Georgia Southern U.	198	1,670	1,507	1,173	4,105	966	774	570	493
U. California, Merced	199	1,845	2,323	1,770	3,956	512	634	539	1,109
U. Wyoming	200	17,664	4,206	i 2,320	3,903	7,804	2,900	2,026	3,205
U. Rhode Island	201	2,714	2,944	2,397	3,849	1,648	1,847	2,339	2,771
U. Central del Caribe	202	4,111	3,953	3,931	3,831	2,937	2,705	2,743	2,492
Yeshiva U.	203	3,302	2,420	2,477	3,830	683	380	486	1,256

TABLE 46

**Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
U. Arkansas, Fayetteville	204	13,844	11,026	3,213	3,825	8,588	5,617	821	1,351
SUNY, C. of Optometry	205	3,120	2,968	3,477	3,460	1,944	1,823	1,688	2,105
U. North Texas, Denton	206	875	1,866	1,354	3,360	0	0	48	209
Winston-Salem State U.	207	305	201	1,716	3,341	305	201	1,366	2,326
Cleveland State U.	208	8,610	6,578	2,797	3,312	6,628	3,819	433	1,215
Morgan State U.	209	93	6	1,931	3,273	0	0	1,764	3,085
U. North Carolina, Greensboro	210	3,249	3,993	3,230	3,206	2,174	2,424	2,032	1,672
Alabama A&M U.	211	5,785 i	4,390 i	2,991 i	3,156 i	3,974 i	2,810 i	1,916 i	2,068 i
U. Colorado Denver <sup>b</sup>	212	na	na	na	3,149	na	na	na	422
Xavier U. Louisiana	213	3,533	2,490	2,859	3,133	2,266	1,180	1,384	1,686
Syracuse U.	214	3,174	3,253	2,785	3,098	851	841	647	752
U. Massachusetts, Boston	215	4,395	3,766	3,320	3,061	1,679	1,403	1,591	2,104
New York Institute of Technology	216	2,381	4,185	2,474	3,050	624	1,900	698	891
Kent State U.	217	1,559	2,281	1,965	2,924	51	110	424	1,459
Philadelphia C. of Osteopathic Medicine	218	2,443	2,368	2,415	2,837	0	0	0	0
Texas Woman's U.	219	1,807	1,435	1,669	2,802	0	229	347	868
Baylor U.	220	2,761	2,127	2,267	2,782	681	1,098	1,255	1,446
Pacific U.	221	2,641	4,463	3,202	2,745	1,252	2,338	1,572	1,212
U. Guam	222	1,928	2,145	2,408	2,741	1,581	1,837	2,034	2,363
Rutgers, State U. New Jersey, Newark	223	80	0	338	2,648	0	0	0	1,484
California Polytechnic State U., San Luis Obispo	224	2,741	2,891	2,899	2,546	2,035	2,207	1,836	2,014
California State U., Long Beach	225	2,524	2,873	2,704	2,499	1,941	2,262	1,784	1,704
Jackson State U.	226	870	881	1,084	2,492	866	855	1,044	2,095
South Dakota State U.	227	4,642	4,896	2,684	2,361	2,252	1,947	1,596	1,482
U. of the Sciences Philadelphia	228	2,133	2,332	2,304	2,355	434	318	254	401
U. Nebraska, central administration	229	2,145	3,259	1,333	2,309	2,145	3,068	1,333	2,309
Delaware State U.	230	197	265	2,777 i	2,245	7	170	305 i	351
U. Southern Mississippi	231	2,101	2,771	2,300	2,235	112	627	608	503
Framingham State U.	232	48	ne	2,060	2,132 i	0	ne	0	0 i
Salisbury U.	233	1,634	1,607	1,995	2,120	77	0	0	0
CUNY, City C.	234	4,277	4,355	4,387	2,112	2,506	2,429	2,024	1,236
U. Oklahoma, Tulsa	235	2,383	2,325	2,633	2,096	864	496	493	260
New England C. of Optometry	236	1,026	1,223	1,150	1,978	837	928	785	1,623
Utah State U.	237	1,173	1,737	2,526	1,966	864	1,398	1,877	1,390

TABLE 46

**Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
U. Texas, San Antonio	238	1,658	1,483	2,014	1,961	734	826	808	928
Rosalind Franklin U. of Medicine and Science	239	2,419	1,386	1,691	1,893	577	630	770	948
Mississippi State U.	240	1,376	1,535	1,738	1,887	126	135	206	734
Montclair State U.	241	1,249	852	1,206	1,735	174	133	300	216
Boise State U.	242	881	955	1,343	1,723	688	670	867	1,345
Northern Illinois U.	243	2,786	3,604	1,854	1,660	406	211	200	336
U. North Carolina, Charlotte	244	2,018	2,424	1,904	1,635	430	728	563	554
Boston C.	245	1,175	1,202	1,576	1,608	858	879	1,062	1,195
U. South Dakota	246	1,997	1,631	1,743	1,576	368	328	504	546
U. Louisiana, Monroe	247	1,483	1,435	1,665	1,559	1,209	1,088	1,379	934
Villanova U.	248	455	601	1,305	1,557	0	0	25	398
Bowling Green State U.	249	236	109	304	1,535	124	67	122	294
Illinois Institute of Technology	250	1,896	1,696	1,023	1,465	947	847	487	662
James Madison U.	251	133	295	631	1,429	0	0	0	19
Eastern Michigan U.	252	292	1,165	1,872	1,406	0	799	1,413	1,073
Oakland U.	253	1,374	1,805	1,603	1,402	567	215	69	232
Northern Kentucky U.	254	0	156	532	1,377	0	138	295	1,044
U. New England	255	2,038	1,870	2,080	1,366	1,402	1,344	1,428	718
Marshall B. Ketchum U.	256	1,451 i	1,430 i	1,357 i	1,351 i	354 i	336 i	323 i	343 i
Brigham Young U., Provo	257	837	1,354	946	1,349	156	482	392	768
U.S. Military Academy	258	200	148	0	1,324	200	148	0	1,324
Pennsylvania State U., Harrisburg	259	12	62	327	1,267	0	0	303	1,239
U. Hawaii, Hilo	260	1,476	746	851	1,263	1,029	591	631	918
Illinois State U.	261	268	646	991	1,249	20	343	684	898
Tougaloo C.	262	2,012	1,170	1,238	1,232 i	2,012	1,170	1,238	1,232 i
San Jose State U.	263	59	3	0	1,224	10	3	0	0
Langston U.	264	211 i	255	1,578	1,219	0 i	0	1,578	434
Grand Valley State U.	265	803	741	1,216	1,205	104	527	673	481
Idaho State U.	266	1,697	1,237	1,477	1,202	899	352	283	188
MGH Institute of Health Professions	267	1,745	1,957	1,587	1,200	1,745	1,957	1,587	1,200
Saginaw Valley State U.	268	883	1,296	1,145	1,199 i	868	1,278	1,083	1,137 i
Portland State U.	269	6,510	9,112	2,224	1,184	5,911	7,816	2,097	1,009
U. Alabama, Huntsville	270	108	887	1,122	1,179	0	6	39	0
St. John's U., New York	271	1,013	926	1,326	1,152	533	539	556	643

TABLE 46

**Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Keck Graduate Institute	272	807	906	930	1,048	404	444	458	548
Ball State U.	273	1,287	1,232	1,171	1,042	500	454	598	608
California State U., East Bay	273	ne	ne	629	1,042	ne	ne	154	482
U. North Carolina, Asheville	275	146	515	718	1,014	0	486	667	939
North Carolina Agricultural and Technical State U.	276	0	0	0	989	0	0	0	989
Purdue U., Northwest	277	722	563	920	945	97	71	131	127
Fayetteville State U.	278	368	368	1,075	930	368	368	0	0
Western Carolina U.	279	168	621	774	927	137	493	621	687
Florida Gulf Coast U.	280	20	66	632	897	20	51	594	892
Carnegie Mellon U.	281	1,082	1,191	824	895	759	885	493	407
Mercyhurst U.	282	ne	783	804	852	ne	283	292	326
National U. of Natural Medicine	283	ne	1,245	1,428	850	ne	760	912	523
Michigan Technological U.	284	1,113	1,460	1,390	849	566	629	399	187
Azusa Pacific U.	285	2,512	736	1,876	848	111	49	116	42
U. Alaska, Anchorage	286	1,757	1,268	129	830	1,523	1,116	0	157
U. Oregon	287	821	115	1,004	817	629	107	4	297
Hampton U.	288	404	983	962	813	404	983	962	813
Oregon Institute of Technology	289	0	859	777	780	0	0	0	42
Southern U. and A&M C., Agricultural Research and Extension Center	290	0	418	662	765	0	0	0	0
California State U., Fresno	291	335	104	572	752	79	9	10	0
U. Wisconsin-Green Bay	292	549	684	649	730	189	262	284	315
Kennesaw State U.	293	748	825	965	725	6	50	315	27
Northeastern Illinois U.	294	944	997	873	724	944	997	873	724
West Virginia School of Osteopathic Medicine	295	ne	ne	669	721	ne	ne	362	359
Skidmore C.	296	1,264	1,071	852	691	1,072	948	730	543
CUNY, C. Staten Island	297	857	628	723	690	0	0	0	502
CUNY, Hunter C.	298	148	242	407	685	142	238	253	308
Middle Tennessee State U.	299	131	34	112	667	79	0	0	12
Western Kentucky U.	300	823	1,134	686	665	77	170	0	180
Tennessee State U.	301	38	167	630	664	36	43	609	644
Western Michigan U. and Homer Stryker M.D. School of Medicine	302	1,368	929	1,136	663	287	100	276	117
Kansas State U.	303	19,289	17,881	752	638	9,103	9,584	752	635
U. Maryland, Eastern Shore	304	7	106	259	635	7	5	259	635

TABLE 46

**Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Gallaudet U.	305	774	409	384	630	699	388	383	368
Des Moines U.	306	81	29	567	592	41	10	0	0
Florida Institute of Technology	307	0	0	0	588	0	0	0	460
U. of the Virgin Islands	308	287	143	1,157	587	287	143	1,157	584
Louisiana State U., Baton Rouge	309	23,984	26,509	928	566	7,566	8,877	527	234
Augustana U.	310	606	483	ne	546	606	483	ne	546
U. of the Incarnate Word	310	160	520	531	546	160	520	531	516
California State U., Fullerton	312	574	553	707	537	451	336	335	192
Dillard U.	313	4,403	506	224	534	4,134	506	2	181
U. North Carolina, Wilmington	314	66	159	481	533	27	108	151	129
Marymount U.	315	ne	ne	ne	531	ne	ne	ne	163
SUNY, Downstate Health Sciences U.	316	185	593	815	524	185	170	283	336
New Mexico State U.	317	626	628	449	492	543	536	397	434
Tarleton State U.	318	3	115	350	482	0	0	0	0
Biola U.	319	411	440	452	480	218	233	240	267
U. Maine	320	44	417	385	466	0	0	0	0
West Chester U. Pennsylvania	321	888	939	613	465	116	126	73	70
Southern Connecticut State U.	322	328	672	907	452	147	144	102	54
Catholic U. of America	323	889	735	667	444	663	541	432	287
Towson U.	324	201	212	295	432	0	13	13	18
William Paterson U.	325	381	598	650	414	0	0	0	9
U. North Florida	326	465	632	481	404	0	0	0	0
U. Nebraska, Kearney	327	130	276	632	394	19	47	327	218
U. Massachusetts, central office	328	381	329	545	392	246	198	403	272
Texas Christian U.	329	1,661	1,527	464	389	1,431	844	124	178
Louisiana Tech U.	330	357	462	449	370	0	67	37	6
Drake U.	331	217	115	ne	362	34	42	ne	45
U. Alaska, Fairbanks	331	6,324	2,751	431	362	5,129	2,517	431	212
Hofstra U.	333	96	26	47	359	8	0	0	0
U. Detroit Mercy	334	36	67	318	353	33	46	18	0
Pace U.	335	510	366	378	342	9	1	19	10
California State U., Sacramento	336	357	356	325	340	14	9	0	0
Haverford C.	337	0	0	0	334	0	0	0	3
U. Texas, Tyler	338	212	693	440	332	149	343	272	222

TABLE 46

**Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Alcorn State U.	339	186	86	108	294	186	81	107	257
U. Central Arkansas	340	539	270	386	293	132	58	115	83
U. San Francisco	341	280	321	195	284	0	0	0	0
SUNY, C. Plattsburgh	342	735	306	465	279	681	281	429	279
Saint John's U.	343	13	13	12	275	0	0	0	0
Naval Postgraduate School	344	0	55	200	270	0	55	200	270
Appalachian State U.	345	19	45	409	269	0	0	64	53
California State U., Los Angeles	346	400	522	257	264	400	490	235	235
Johnson C. Smith U.	347	568	230	246	261	368	230	246	261
C. of Saint Benedict	348	15	15	14	259	0	0	0	10
Colorado School of Mines	349	68	88	132	257	30	88	125	242
U. Akron	350	10	13	183	210	0	0	143	153
U. Dayton	350	346	413	216	210	207	319	172	195
San Francisco State U.	352	63	184	190	205	0	94	42	42
Arcadia U.	353	ne	ne	ne	201	ne	ne	ne	94
South Carolina State U.	354	0	185	192	199	0	185	192	199
Virginia State U.	355	0	9	179	190	0	9	179	190
U. of the Pacific	356	457	381	341	183	393	278	328	172
California State U., Monterey Bay	357	278	262	49	182	205	196	0	138
Elon U.	358	307	268	45	180	0	0	16	0
Savannah State U.	359	38	92	152	178	38	92	152	178
SUNY, Polytechnic Institute	360	0	0	0	175	0	0	0	175
U. Washington, Bothell	360	48	251	297	175	48	203	297	145
Western Washington U.	362	0	0	0	171	0	0	0	0
U. Puerto Rico, Cayey	363	0	353	426	169	0	0	327	169
Franklin and Marshall C.	364	4	58	6	163	0	0	0	92
U. Notre Dame	364	65	139	231	163	0	0	0	0
Texas A&M U.-Corpus Christi	366	38	33	22	162	0	0	0	0
Pepperdine U.	367	11	11	18	161	0	0	0	0
Southeastern Louisiana U.	368	396	138	148	158	359	118	136	139
U. Northern Colorado	369	937	634	311	156	490	179	128	35
California State U., Channel Islands	370	0	6	0	153	0	0	0	141
U. Michigan, Dearborn	371	141	143	261	151	74	103	171	140
Spelman C.	372	130	58	20	149	130	58	20	149

TABLE 46

**Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Smith C.	373	98	17	126	146	0	0	14	79
U. Michigan, Flint	374	126	172	190	144	7	9	118	42
Tennessee Technological U.	375	17	0	96	143	13	0	0	78
U. Tennessee, Chattanooga	376	88	104	193	132	0	0	0	0
Humboldt State U.	377	214	396	246	129	0	0	0	0
California Institute of Technology	378	4,274	2,815	46	128	i	0	46	123
California State U., San Marcos	378	48	372	324	128	47	372	254	100
Loyola Marymount U.	380	0	13	6	127	0	0	0	0
Albany C. of Pharmacy and Health Sciences	381	1,434	348	1,033	125	400	214	827	44
Northern Michigan U.	382	129	320	200	121	0	150	0	0
U. Tulsa	383	17	135	178	118	0	0	28	0
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	384	123	145	150	116	24	43	45	22
Rhode Island C.	384	58	64	268	116	41	45	0	22
U. Massachusetts, Dartmouth	386	123	106	77	109	0	0	0	0
Lincoln U., Jefferson City	387	0	0	0	107	0	0	0	107
U. Wisconsin-Platteville	388	ne	0	i	0	i	0	i	34
U. Idaho	389	88	169	121	97	58	87	93	29
Ithaca C.	390	ne	ne	303	95	ne	ne	276	78
Clarkson U.	391	507	398	97	93	368	219	54	0
U. Houston-Clear Lake	392	0	0	0	92	0	0	0	0
Occidental C.	393	0	0	0	86	0	0	0	0
Texas A&M U.-Commerce	393	17	87	47	86	0	0	0	0
Northwestern State U. Louisiana	395	186	211	176	82	4	34	1	0
Stephen F. Austin State U.	396	99	97	92	79	4	1	0	0
U. Hartford	397	10	0	101	77	10	0	101	77
C. Charleston	398	177	225	146	76	0	25	0	0
SUNY, C. Brockport	398	47	26	12	76	26	0	0	0
U. San Diego	400	187	219	121	74	46	22	34	9
North Carolina Central U.	401	0	1,087	360	73	0	943	302	1
St. Olaf C.	402	67	75	81	69	0	0	0	0
CUNY, Lehman C.	403	428	0	1	68	274	0	0	68
U. Central Oklahoma	404	0	64	63	i	66	i	59	i
CUNY, Brooklyn C.	405	255	636	i	660	65	245	534	i
California State U., Dominguez Hills	406	24	24	21	64	0	0	0	0



TABLE 46

**Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
DePaul U.	407	29	27	79	60	8	1	0	0
Indiana U. Pennsylvania	408	113	129	144	59	0	0	0	0
U. Southern Maine	408	1	0	74	59	0	0	22	14
U. Wisconsin-Eau Claire	410	37	49	46	58	0	0	0	0
U. Puerto Rico, Rio Piedras	411	4	71	27	49	2	71	27	13
U. West Florida	412	179	88	109	45	7	0	28	11
U. Washington, Tacoma	413	308	10	0	40	218	0	0	0
Furman U.	414	88	52	72	39	79	52	39	26
Arkansas State U., Jonesboro	415	45	28	32	36	0	0	0	0
California State U., Chico	416	6	1	0	35	0	0	0	0
Western U. of Health Sciences	416	1,034	446	323	35	537	41	14	16
Wheaton C., Wheaton	418	72	211	161	33	27	137	142	18
Lamar U.	419	249	563	36	32	15	440	0	0
Central Washington U.	420	33	0	0	31	0	0	0	0
Saint Joseph's U.	421	37	43	35	30	0	0	0	0
Pennsylvania State U., Behrend	422	0	0	0	29	0	0	0	0
Prairie View A&M U.	423	3	0	48	28	0	0	48	28
Providence C.	423	0	0	0	28	0	0	0	28
Youngstown State U.	423	28	31	27	28	0	0	0	20
Fort Lewis C.	426	ne	0	11	25	ne	0	0	0
Stockton U.	426	20	0	44	25	0	0	0	25
Sacred Heart U.	428	ne	ne	ne	24	ne	ne	ne	0
West Virginia State U.	428	85	113	0	24	45	80	0	24
Clafin U.	430	0	0	0	23	0	0	0	23
Fairfield U.	431	0	68	49	22	0	0	0	0
Hope C.	431	10	0	7	22	0	0	0	0
U. Maryland, Baltimore County	431	0	2,446	934	22	0	1,400	142	4
Liberty U.	434	ne	6	26	21	ne	0	0	0
U. Arkansas, Little Rock	434	93	80	35	21	66	53	35	21
Southern U. and A&M C., Baton Rouge	436	5	10	2	19	0	8	0	17
U.S. Air Force Academy	436	0	0	0	19	0	0	0	19
William & Mary	436	12	0	0	19	0	0	0	0
Eastern Kentucky U.	439	79	105	80	18	2	74	44	14
New School	439	0	0	12	18	0	0	12	8

TABLE 46

**Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Sam Houston State U.	441	269	14	18	17	0	0	0	0
Kean U.	442	ne	ne	120	16	ne	ne	0	0
Sonoma State U.	442	ne	ne	45	16	ne	ne	17	12
St. Cloud State U.	442	4	36	78	16	0	0	0	0
C. New Jersey	445	9	ne	8	13	0	ne	0	0
Calvin U.	445	1	16	15	13	0	0	0	0
Indiana U., South Bend	445	9	ne	ne	13	0	ne	ne	0
Winthrop U.	445	2	259	401	13	0	259	401	0
U. Wisconsin-La Crosse	449	8	8	22	12	0	0	0	0
California State U., San Bernardino	450	88	57	9	11	5	5	0	0
U. New Haven	450	0	3	5	11	0	0	0	11
California State U., Stanislaus	452	0	9	6	10	0	0	0	0
Indiana State U.	453	195	133	55	9	61	42	12	8
Oberlin C.	453	44	22	10	9	0	0	0	0
Texas A&M International U.	455	2,578	3,439	220	8	1,339	1,698	123	0
U. Ana G. Mendez, Gurabo	455	101	63	21	8	0	0	0	0
U. Texas of the Permian Basin	455	0	ne	0	8	0	ne	0	0
Pittsburg State U.	458	14	50	69	7	14	50	67	7
Eastern Washington U.	459	27	14	0	6	12	0	0	6
SUNY, Oswego	459	5	5	5	6	0	0	0	0
Trinity U.	459	11	0	6	6	0	0	0	0
Citadel Military C. South Carolina	462	ne	ne	34	5	ne	ne	0	0
CUNY, John Jay C. of Criminal Justice	462	346	81	28	5	54	2	2	5
CUNY, York C.	462	ne	8	9	5	ne	0	0	0
U. Wisconsin-Oshkosh	462	4	4	5	5	0	0	0	0
Santa Clara U.	466	142	6	3	4	142	6	3	4
U. Northern Iowa	466	0	0	1	4	0	0	0	0
Minnesota State U., Mankato	468	6	5	17	3	0	0	0	0
Purdue U., Fort Wayne	468	1,494	15	5	3	284	0	0	0
Coastal Carolina U.	470	0	0	0	2	0	0	0	0
Missouri U. of Science and Technology	470	0	1	1	2	0	0	0	0
Troy U.	470	ne	ne	2	2	ne	ne	0	0
U. North Georgia	470	118	128	67	2	0	74	67	0
U. Wisconsin-Stevens Point	470	18	20	23	2	14	16	19	0

TABLE 46

**Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Willamette U.	470	7	33	12	2	0	0	0	0
Austin Peay State U.	476	0	3	3	1	0	0	0	0
Lafayette C.	476	0	11	1	1	0	0	0	0
U. Illinois, Springfield	476	6	4	0	1	0	0	0	1
All other surveyed institutions	-	863,570	525,065	529,934	0	528,080	340,405	333,448	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

<sup>a</sup> Johns Hopkins University includes the Applied Physics Laboratory (APL), with \$10,739 thousand imputed for total and \$9,648 thousand reported for federally financed R&D expenditures in health sciences in FY 2021. Total expenditures by field for Johns Hopkins University are flagged as imputed because APL was unable to distribute a portion of institutionally funded R&D by field.

<sup>b</sup> The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

<sup>c</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

<sup>d</sup> The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

<sup>e</sup> The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

**Note(s):**

Institutions reporting zero expenditures in ranked total for FY 2021 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 47

**Total and federally financed higher education R&D expenditures in mathematics and statistics, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
All institutions	-	750,358	769,073	800,322	772,935	456,793	467,027	485,574	475,827
Johns Hopkins U. <sup>a</sup>	1	78,432 i	85,874 i	105,774 i	117,429 i	73,899	83,057	102,890	113,772
North Carolina State U.	2	21,722	20,296	20,164	20,392	13,083	12,331	11,947	11,908
Harvard U.	3	22,908	22,127	20,038	19,503	19,223	18,465	17,747	16,848
U. Texas M. D. Anderson Cancer Center	4	22,075	20,358	21,622	18,914	6,720	7,403	8,853	7,789
U. Michigan, Ann Arbor	5	18,306	18,478	18,648	17,937	5,839	5,874	5,771	5,490
U. Texas, Austin	6	14,581	17,222	20,290	17,349	6,550	7,122	8,882	5,691
New York U.	7	10,475	12,002	13,465	16,998	6,697	7,105	8,861	10,981
Iowa State U.	8	17,694	16,551	17,062	16,101	9,141	7,940	10,785	9,537
Pennsylvania State U., University Park and Hershey Medical Center	9	19,251	25,057	17,706	14,090	15,494	16,418	13,702	12,668
Carnegie Mellon U.	10	9,308	12,385	12,000	12,464	3,523	3,402	3,183	3,452
U. California, Los Angeles	11	13,200	13,118	13,161	12,110	10,906	10,515	10,440	9,562
Princeton U.	12	11,313	11,703	13,550	11,672	4,687	5,639	5,657	4,877
Michigan State U.	13	12,008	11,394	12,494	11,152	5,577	5,481	5,790	5,596
Brown U.	14	12,107	13,225	12,204	10,903	9,140	9,615	9,117	8,558
Rutgers, State U. New Jersey, New Brunswick	15	14,362	9,036	9,493	9,673	10,979	7,363	6,214	6,239
Massachusetts Institute of Technology	16	9,888	11,774	10,434	9,015	5,840	6,786	5,091	5,009
Duke U.	17	9,766	10,319	9,842	8,922	7,684	7,549	6,554	6,364
U. Pennsylvania	18	5,975	7,432	6,817	8,637	2,308	3,193	2,744	3,206
Georgia Institute of Technology	19	7,543	8,058	8,826	8,614	3,375	4,042	4,104	3,808
U. Minnesota, Twin Cities	20	7,847	9,822	8,994	8,555	5,659	6,349	5,141	5,674
Virginia Polytechnic Institute and State U.	21	5,765	5,031	6,776	8,107	2,380	2,355	3,308	4,368
U. California, Berkeley	22	8,376	8,177	8,263	8,067	5,815	5,689	6,251	6,122
SUNY, Stony Brook U.	23	7,467	6,652	7,629	7,407	4,957	4,756	5,006	4,824
Rice U.	24	9,435	9,477	9,363	7,349	4,338	4,099	3,742	3,934
Tufts U.	25	1,839	1,811	3,409	7,181	1,483	1,253	2,852	6,640
Dartmouth C. and Dartmouth Hitchcock Medical Center	26	5,892	5,149	5,848	6,932	501	706	1,030	1,326
Texas A&M U., College Station and Health Science Center	27	9,201	8,700	8,768	6,729	5,839	5,726	5,223	4,925
Florida State U.	28	5,542	6,202	7,128	6,567	1,920	1,515	2,096	1,894
U. Wisconsin-Madison	29	5,825	6,405	6,675	6,394	3,249	3,592	4,286	4,406
U. California, Irvine	30	5,289	5,442	7,106	6,314	3,138	2,698	4,069	3,305
Stanford U.	31	5,505	4,836	7,036	6,070	4,555	4,200	6,338	5,209
U. Georgia	32	6,745	7,666	6,690	5,845	1,817	2,301	1,545	1,096
U. Washington, Seattle	33	5,678	6,102	7,120	5,778	5,102	5,346	6,115	5,223

TABLE 47

**Total and federally financed higher education R&D expenditures in mathematics and statistics, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
U. California, San Diego	34	4,478	5,466	4,857	5,639	2,585	2,624	2,456	2,995
U. North Carolina, Chapel Hill	35	3,186	3,049	6,729	5,489	2,836	2,652	5,390	4,735
Boston U.	36	4,842	5,236	5,199	5,039	3,113	3,158	2,947	3,218
New Jersey Institute of Technology	37	4,200	4,400	5,591	4,949	1,615	1,808	1,726	1,549
Ohio State U.	38	7,130	6,415	5,881	4,793	5,601	5,053	3,945	3,309
U. Notre Dame	39	4,930	5,663	5,257	4,751	2,980	3,129	3,063	2,661
U. California, Davis	40	4,436	4,162	4,455	4,698	3,269	3,249	3,471	3,678
U. Chicago	41	7,414	6,987	4,726	4,653	6,083	5,781	4,078	3,972
U. Nebraska, Lincoln	42	5,536	5,390	5,526	4,556	1,693	1,321	1,254	658
Oklahoma State U., Stillwater	43	4,886	4,585	4,213	4,276	1,483	675	569	472
Arizona State U.	44	6,571	6,367	5,942	4,121	3,611	2,914	2,728	2,396
U. Illinois, Chicago	45	4,197	4,386	4,109	4,021	2,171	2,357	2,407	1,989
San Diego State U.	46	3,790	4,061	3,899	3,883	1,482	1,274	907	1,157
U. Maryland <sup>b</sup>	47	na	4,685	5,356	3,760	na	3,868	3,660	3,035
U. Utah	48	4,496 <sup>i</sup>	3,722 <sup>i</sup>	4,065 <sup>i</sup>	3,708 <sup>i</sup>	2,893	2,176	2,452	2,200
Texas Tech U.	49	4,332	3,590	3,402	3,678	760	324	239	210
U. Illinois, Urbana-Champaign	50	5,669	5,071	5,346	3,612	3,699	3,446	2,719	2,092
Yale U.	51	2,528	3,831	4,703	3,589	1,774	2,260	2,556	1,871
U. Houston	52	3,387	3,083	3,596	3,497	1,877	2,485	3,015	2,743
Auburn U., Auburn	53	662	3,706	3,736	3,471	413	335	332	395
U. Arizona	54	2,233	2,449	3,098	3,347	1,647	1,942	2,295	2,783
U. Central Florida	55	3,075	3,144	3,197	3,269	423	518	780	603
U. Massachusetts, Amherst	56	2,429	3,636	3,361	3,218	1,548	2,244	2,093	2,290
U. Vermont	57	327	612	2,154	3,153	123	395	247	322
SUNY, Binghamton U.	58	2,328	2,468	2,830	3,133	109	99	85	85
U. Louisiana, Lafayette	59	1,603	3,226	2,117	3,119	131	48	91	235
U. South Florida <sup>c</sup>	60	2,463	2,685	3,165	3,055	638	622	948	709
Colorado State U., Fort Collins	61	4,240	4,392	4,190	2,980	3,838	4,041	3,768	2,573
Columbia U. in the City of New York	62	5,841	5,725	4,118	2,951	3,903	4,347	3,054	2,190
Rensselaer Polytechnic Institute	63	1,641	2,258	2,808	2,944	1,114	1,469	1,480	991
U. Tennessee, Knoxville <sup>d</sup>	64	3,372	3,390	3,181	2,938	1,044	974	642	599
U. Pittsburgh, Pittsburgh	65	3,821	4,442	4,169	2,891	2,507	2,775	2,777	1,861
U. Colorado Boulder	66	2,409	2,711	2,659	2,857	2,271	2,626	2,555	2,601
Purdue U., West Lafayette	67	6,314	3,185	2,671	2,742	4,439	2,081	1,609	1,513

TABLE 47

**Total and federally financed higher education R&D expenditures in mathematics and statistics, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Kansas State U.	68	3,020	3,416	3,246	2,708	368	386	230	158
California Polytechnic State U., San Luis Obispo	69	1,361	1,711	2,841	2,668	1,188	1,387	2,430	2,147
U. Nevada, Las Vegas	70	1,550	1,471	2,347	2,624	108	14	15	48
Georgetown U.	71	263	24	1,765	2,606	142	24	0	180
Syracuse U.	72	2,815	3,001	2,528	2,572	443	542	300	457
Temple U.	73	1,760	1,262	3,213	2,547	915	884	923	667
Montana State U., Bozeman	74	758	1,565	2,536	2,527	750	1,371	1,281	1,403
George Mason U.	75	1,578	1,981	1,941	2,493	938	737	1,008	1,529
Cornell U.	76	3,494	3,341	3,323	2,467	2,552	2,268	2,519	2,047
Naval Postgraduate School	77	2,735	2,394	2,824	2,435	2,344	1,718	1,867	1,941
U. Texas, El Paso	78	668	1,466	2,927	2,412	196	1,104	1,270	827
U. Texas, Arlington	79	1,992	2,276	2,053	2,350	695	798	748	863
California State U., Bakersfield	80	1,691	2,952	3,173	2,321	1,327	2,190	2,451	1,827
U. Oklahoma, Norman and Health Science Center	81	377	477	2,018	2,274	256	390	361	402
U. Texas Rio Grande Valley	82	268	1,881	2,174	2,194	109	151	196	345
Rochester Institute of Technology	83	2,115	1,750	2,040	2,178	1,519	1,257	1,503	1,605
U. California, Merced	84	1,323	2,299	3,047	2,139	923	1,587	2,472	1,466
U. Connecticut	85	2,296	2,362	2,344	2,119	1,435	1,370	1,361	1,268
Georgia State U.	86	1,973	2,045	1,973	2,091	969	1,020	1,148	1,009
Louisiana State U., Baton Rouge	87	2,146	2,419	2,701	2,077	1,714	1,808	2,241	1,656
U. California, Riverside	88	1,689	2,251	1,682	1,994	1,048	1,588	1,120	1,520
Michigan Technological U.	89	2,122	2,085	2,260	1,942	272	216	359	226
Florida International U.	90	1,162	1,394	1,470	1,915	56	111	138	520
Brandeis U.	91	790	677	2,042	1,880	341	424	401	513
Mississippi State U.	91	1,304	1,310	1,959	1,880	120	172	172	238
Worcester Polytechnic Institute	91	1,684	1,253	1,404	1,880	1,009	946	799	1,375
Clemson U.	94	4,655	3,052	2,607	1,870	1,738	1,808	1,548	1,384
U. Nevada, Reno	95	1,451	2,609	2,341	1,777	267	894	805	468
U. Florida	96	1,471	2,346	1,726	1,757	886	1,497	985	1,013
Southern Methodist U.	97	982	1,486	1,291	1,736	719	1,037	961	1,199
SUNY, U. Buffalo	98	901	1,083	1,067	1,730	538	583	597	653
U. Virginia, Charlottesville	99	1,582	1,698	1,593	1,710	884	1,138	1,125	1,320
Emory U.	100	3,049	2,715	2,357	1,693	2,017	1,975	1,926	1,540
Indiana U., Bloomington	101	2,269	1,773	1,780	1,678	1,512	987	1,299	1,260

TABLE 47

**Total and federally financed higher education R&D expenditures in mathematics and statistics, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
U. South Carolina, Columbia	102	2,131	2,100	1,817	1,558	1,227	1,217	1,185	1,267
U. Texas, San Antonio	103	272	586	1,529	1,554	184	135	115	116
American U.	104	1,618	1,319	1,559	1,538	328	340	370	563
U. Kentucky	105	809	1,685	1,336	1,512	529	1,430	1,088	1,180
North Dakota State U.	106	38	714	1,120	1,501	0	0	150	84
U. Massachusetts, Dartmouth	107	801	1,026	717	1,497	236	831	239	380
Northwestern U.	108	2,869	2,461	2,275	1,490	1,891	1,675	1,580	1,005
Boise State U.	109	1,534	582	1,137	1,475	263	393	904	1,203
U. Southern California	110	1,220	1,500	1,617	1,472	977	1,077	1,264	1,227
Rockefeller U.	111	1,474	1,602	1,612	1,433	152	331	306	111
U. California, Santa Barbara	112	1,234	1,711	1,416	1,416	883	1,035	944	852
Georgia Southern U.	113	105	57	67	1,405	13	11	30	67
SUNY, U. Albany	114	1,053	1,443	1,774	1,400	87	197	196	344
Kent State U.	115	1,156	1,637	1,309	1,385	238	268	300	212
U. Delaware	116	1,908	2,227	1,887	1,384	1,565	1,743	1,565	1,204
U. Missouri, Columbia	117	1,670	1,308	1,279	1,377	1,444	1,094	1,017	952
U. Texas, Dallas	118	866	1,063	1,155	1,363	412	683	668	930
San Francisco State U.	119	1,063	1,023	1,227	1,326	170	309	253	256
U. Cincinnati	120	2,322	1,949	1,422	1,320	1,156	1,060	665	620
Vanderbilt U. and Vanderbilt U. Medical Center	121	1,739	1,211	1,689	1,317	953	685	902	621
U. Wyoming	122	10,004	1,499	1,276	1,306	2,684	1,426	1,155	1,258
U.S. Military Academy	123	400	116	0	1,259	400	116	0	456
U. Memphis	124	845	892	1,241	1,250	290	298	493	240
Oregon State U.	125	2,003	2,074	1,595	1,247	1,418	1,515	1,108	712
U. New Hampshire	126	229	291	404	1,239	164	251	339	352
U. New Mexico	127	1,119	1,638	1,422	1,229	971	1,542	1,337	1,197
Northeastern U.	128	927	780	878	1,210	787	649	685	721
Middle Tennessee State U.	129	353	169	39	1,187	293	0	0	316
U. Alabama, Tuscaloosa	130	43	179	262	1,174	19	154	226	243
Tuskegee U.	131	17	1,216	1,240	1,146	17	1,216	1,240	1,146
U. Colorado Denver <sup>e</sup>	132	na	na	na	1,122	na	na	na	1,119
Marquette U.	133	1,686	1,863	1,734	1,110	942	1,300	1,217	684
Old Dominion U.	134	3,994	7,507	1,239	1,097	3,205	4,318	952	865
Wayne State U.	135	3,801	1,393	1,716	1,093	1,527	1,269	1,184	499

TABLE 47

**Total and federally financed higher education R&D expenditures in mathematics and statistics, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Boston C.	136	1,113	1,015	1,289	1,079	1,008	960	1,064	908
Texas State U.	137	444	908	1,038	1,057	110	680	799	875
California Institute of Technology	138	1,475	1,534	1,387	1,039	902	816	755	605
Florida Atlantic U.	139	631	883	1,268	1,026	289	363	519	643
Louisiana Tech U.	140	636	726	771	999	93	168	238	314
U. Hawaii, Hilo	141	646	944	1,126	998	455	759	863	753
U.S. Naval Academy	142	1,131	936	1,013	993	786	636	799	847
Morehouse C.	143	222	256	166	949	222	256	166	949
Portland State U.	144	832	933	1,115	947	704	745	794	942
U. Montana, Missoula	145	470	1,256	1,187	878	391	704	734	405
Baylor U.	146	693	1,104	933	877	208	253	284	408
Clarkson U.	147	848	1,046	780	868	596	724	571	524
U. Miami	148	992	581	1,420	843	424	239	301	356
Washington U., Saint Louis	149	616	639	959	840	578	613	902	821
Air Force Institute of Technology	150	1,092	1,313	658	828	551	691	497	197
North Carolina Agricultural and Technical State U.	151	493	872	818	797	416	800	748	763
Montclair State U.	152	593	952	726	785	522	425	327	317
U. North Carolina, Charlotte	153	976	902	1,029	782	803	568	820	673
U. Massachusetts, Lowell	154	972	636	663	754	0	0	0	60
San Jose State U.	155	0	0	0	751	0	0	0	276
George Washington U.	156	1,154	1,709	926	725	713	1,129	631	555
Utah State U.	157	791	736	846	720	366	301	268	174
U. Alabama, Huntsville	158	500	627	726	709	45	44	2	15
U. Wisconsin-Milwaukee	159	1,303	1,794	4,792	707	947	1,500	3,820	0
Virginia Commonwealth U.	160	1,085	890	793	698	595	625	609	529
Case Western Reserve U.	161	671	558	355	697	600	485	325	458
U. Louisville	161	104	67	494	697	99	51	84	311
U. Oregon	163	1,064	908	906	694	898	792	853	641
California State U., Northridge	164	1,348	786	980	685	1,243	777	901	628
Colorado School of Mines	165	302	404	583	682	280	397	571	645
U. Maine	166	101	1,115	845	657	21	59	65	18
St. Edward's U.	167	220	470	645	645	130	450	600	600
U. San Diego	168	77	274	225	643	71	241	141	481
Cleveland State U.	169	1,058	823	784	642	430	283	232	183



TABLE 47

**Total and federally financed higher education R&D expenditures in mathematics and statistics, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Drexel U.	170	704	497	546	620	636	429	452	550
Saginaw Valley State U.	171	199	617	588	617	181	607	587	616
Bryn Mawr C.	172	608	460	561	599	202	73	114	121
West Virginia U.	173	5,106	625	482	579	2,477	493	369	374
U. Kansas	174	1,166	999	672	543	1,084	924	649	508
Washington State U.	175	1,611	475	447	535	1,045	249	289	356
Tulane U.	176	1,718	814	581	518	665	374	441	381
California State U., Fresno	177	149	214	412	490	115	182	287	444
U. Massachusetts, Boston	178	83	298	449	486	38	40	14	70
Brigham Young U., Provo	179	799	614	348	483	759	562	331	466
California State U., East Bay	180	ne	ne	896	482	ne	ne	0	163
U. New Orleans	180	40	204	389	482	0	18	0	131
U. Nebraska, Omaha	182	304	333	200	468	206	219	162	366
California State U., San Bernardino	183	948	681	633	466	847	666	427	184
U. of the District of Columbia	184	166	629	277	447	166	629	277	447
California State U., Long Beach	185	574	621	691	446	562	601	673	446
Sam Houston State U.	186	274	368	338	444	230	345	319	417
U. Hawaii, Manoa	187	363	466	515	439	316	399	457	410
U. of the Virgin Islands	187	670	740	694	439	670	740	694	439
South Dakota State U.	189	391	488	401	433	267	259	262	302
U. Maryland, Baltimore County	190	1,467	592	729	428	1,127	371	368	228
Miami U.	191	241	376	310	427	114	192	139	269
Wichita State U.	192	265	105	105	419	256	95	72	139
Fisk U.	193	0	0	12	415	0	0	12	407
Williams C.	194	428	419	401	411	262	236	227	241
U. Missouri, Saint Louis	195	242	211	265	407	176	135	235	371
U. Iowa	196	749	710	624	406	456	398	340	273
Indiana U.-Purdue U., Indianapolis	197	543	610	601	404	444	519	460	365
Wesleyan U.	198	391	553	533	402	288	472	390	327
CUNY, C. Staten Island	199	521	470	691	391	182	222	513	308
U. Alabama, Birmingham	200	320	876	916	383	289	844	875	362
Illinois Institute of Technology	201	296	211	405	381	271	210	389	312
Western Washington U.	202	669	499	347	375	261	222	217	227
Long Island U.	203	0	0	457	372	0	0	0	0

TABLE 47

**Total and federally financed higher education R&D expenditures in mathematics and statistics, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
U. North Dakota	203	384	383	434	372	0	0	0	0
William & Mary	205	324	601	438	371	278	510	242	329
U. Mississippi	206	1,023	1,236	216	358	132	71	47	201
California State U., Channel Islands	207	141	341	181	348	130	283	171	268
James Madison U.	208	76	312	159	345	69	154	104	15
Hampton U.	209	413	217	226	344	413	217	226	344
CUNY, Lehman C.	210	13	26	271	343	0	0	259	328
Tarleton State U.	211	0	192	450	342	0	26	2	0
CUNY, Graduate Center	212	0	34	23	332	0	34	23	332
Amherst C.	213	372	267	340	316	255	163	225	187
Murray State U.	214	84	62	198	309	83	61	198	306
U. North Carolina, Greensboro	215	271	210	215	308	239	170	167	213
Vassar C.	216	1,953	428	357	307	1,953	424	350	301
Kennesaw State U.	217	1,338	1,523	107	287	0	5	4	57
Clark Atlanta U.	218	0	128	194	286	0	128	157	265
Florida Institute of Technology	218	365	345	188	286	111	92	71	132
U. Minnesota, Duluth	220	242	236	152	274	165	142	108	210
Wellesley C.	221	79	109	255	263	55	0	240	262
California State U., Stanislaus	222	16	160	194	253	15	160	194	253
Missouri U. of Science and Technology	223	222	440	222	252	174	373	218	250
CUNY, Queens C.	224	346	302	228	251	299	255	160	221
Creighton U.	225	192	237	204	239	82	118	108	129
Manhattan C.	225	ne	0	147	239	ne	0	147	217
U. North Texas, Denton	227	491	1,409	1,676	237	113	201	202	205
Sonoma State U.	228	ne	ne	141	235	ne	ne	91	226
Reed C.	229	275	370	223	229	116	121	151	160
Rowan U.	230	23	37	0	225	0	37	0	202
Mercer U.	231	183	194	224	219	0	0	0	0
CUNY, Hunter C.	232	24	95	174	217	22	43	114	183
Virginia State U.	232	650	1,333	645	217	473	1,010	645	217
South Dakota School of Mines and Technology	234	133	141	339	216	117	126	339	216
Illinois State U.	235	355	296	229	215	264	185	119	119
U. Rochester	236	348	213	201	214	333	194	185	210
California State U., Fullerton	237	4	29	11	212	0	0	0	127

TABLE 47

**Total and federally financed higher education R&D expenditures in mathematics and statistics, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
CUNY, Baruch C.	238	134	175	325	211	101	155	321	203
U. Tennessee, Chattanooga	239	135	335	189	206	24	49	81	147
Howard U.	240	225	222	230	198	116	0	0	0
U. Idaho	241	599	213	205	194	487	108	120	142
Kentucky State U.	242	0	3	125	193	0	3	125	193
Towson U.	243	48	84	179	191	0	0	50	94
U. Alaska, Fairbanks	243	454	507	346	191	428	507	321	165
Saint Louis U.	245	74	56	280	190	20	38	266	170
U. Michigan, Dearborn	245	136	228	155	190	77	139	110	149
U. South Dakota	247	139	181	160	189	0	0	0	0
Southern Connecticut State U.	248	2	142	35	187	0	0	0	0
Southern Illinois U., Edwardsville	249	569	263	817	185	177	199	212	33
Christopher Newport U.	250	0	0	7	180	0	0	0	172
U. Puerto Rico, Rio Piedras	251	145	172	145	178	144	166	102	120
Eastern Michigan U.	252	102	143	216	174	86	105	37	78
Pennsylvania State U., Behrend	252	48	94	21	174	15	18	15	166
Carleton C.	254	398	216	196	173	62	0	41	17
Central Washington U.	255	106	154	104	169	79	112	52	149
Texas Southern U.	256	32	144	187	167	32	144	187	167
U. South Alabama	257	55	31	80	163	8	17	79	162
Pomona C.	258	274	270	129	162	219	202	82	135
U. Akron	259	210	178	82	161	117	119	60	117
Wake Forest U.	259	97	408	529	161	92	158	134	70
Bowling Green State U.	261	408	341	532	160	149	123	140	82
CUNY, City C.	262	733	579	389	158	588	509	313	125
U. California, Santa Cruz	263	387	303	236	156	274	267	161	139
Colgate U.	264	47	50	84	153	0	0	56	65
U. Detroit Mercy	264	2	2	140	153	0	0	0	0
Morgan State U.	266	448	328	134	146	420	284	105	129
Central Michigan U.	267	92	183	120	141	45	125	52	1
Fordham U.	268	228	242	173	140	60	58	66	70
Lehigh U.	268	167	187	228	140	150	143	194	127
Swarthmore C.	270	123	171	103	136	84	109	63	79
U. Northern Colorado	271	535	672	181	135	449	570	117	91

TABLE 47

**Total and federally financed higher education R&D expenditures in mathematics and statistics, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Loyola Marymount U.	272	29	124	187	134	0	74	117	70
U. Central Oklahoma	273	104	126	126	132	86	94	93	98
Azusa Pacific U.	274	99	42	64	125	16	18	0	0
California State U., Dominguez Hills	274	56	76	116	125	15	21	53	61
Salisbury U.	276	35	0	113	123	0	0	0	0
Smith C.	277	348	296	182	120	276	211	121	111
California State U., Sacramento	278	45	41	94	116	0	5	0	34
New Mexico State U.	278	74	41	188	116	39	8	151	77
Tennessee State U.	278	86	98	111	116	79	89	104	110
Villanova U.	278	185	186	60	116	160	144	2	28
U. Richmond	282	103	90	106	114	97	43	21	0
SUNY, Buffalo State	283	0	0	91	112	0	0	91	112
Claremont Graduate U.	284	3	3	70	111	0	0	70	111
Harvey Mudd C.	284	212	219	174	111	173	151	113	33
Rutgers, State U. New Jersey, Camden	284	9	0	94	111	9	0	84	61
Bucknell U.	287	83	418	113	110	30	222	106	104
Embry-Riddle Aeronautical U.	287	21	33	84	110	5	0	23	62
Stephen F. Austin State U.	289	112	642	129	109	82	640	128	93
Grinnell C.	290	398	798	407	108	129	89	72	63
C. Wooster	291	69	63	104	106	54	62	55	58
Claremont McKenna C.	292	36	74	85	103	18	64	78	103
West Chester U. Pennsylvania	292	297	340	196	103	64	80	60	0
U. Wisconsin-Eau Claire	294	77	105	82	102	52	41	35	49
Macalester C.	295	70	23	138	100	0	15	96	100
U. Hartford	295	0	183	131	100	0	183	131	100
Occidental C.	297	0	38	58	97	0	38	58	97
Spelman C.	298	45	202	48	96	45	202	48	96
Dordt U.	299	ne	ne	ne	94	ne	ne	ne	84
Seattle U.	300	218	206	184	93	202	177	159	90
Texas A&M International U.	301	1	8	1	91	0	0	0	64
Lincoln U., Jefferson City	302	280	234	150	90	280	234	150	90
Wright State U.	302	456	153	145	90	332	116	72	67
Eastern Connecticut State U.	304	80	5	79	87	0	0	0	0
Elon U.	304	75	161	0	87	0	78	0	11

TABLE 47

**Total and federally financed higher education R&D expenditures in mathematics and statistics, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
U. Guam	304	28	28	0	87	28	28	0	81
U. Puerto Rico, Mayaguez	304	752	176	45	87	427	137	25	87
Hofstra U.	308	8	12	4	85	0	0	0	0
Oregon Institute of Technology	309	0 i	85 i	77 i	84 i	0	0 i	0	9 i
U. Wisconsin-La Crosse	309	164	107	112	84	143	87	77	70
Lamar U.	311	226	132	55	83	44	82	54	83
Loyola U., Chicago	312	131	405	188	81	63	345	164	67
Prairie View A&M U.	312	26	7	145	81	0	0	0	81
U. West Florida	312	35	45	313	81	0	0	0	0
U. Denver	315	206	123	120	80	124	92	68	37
Davidson C.	316	60	74	142	79	0	12	61	6
Lewis and Clark C.	316	108	100	174	79	13	19	45	56
Fairfield U.	318	40	43	75	78	40	43	74	70
Alabama A&M U.	319	164 i	123 i	83 i	74 i	119 i	84 i	56 i	49 i
Ithaca C.	319	ne	ne	64	74	ne	ne	64	74
Duquesne U.	321	0	255	233	71	0	131	120	49
Northeastern Illinois U.	321	37	60	53	71	37	60	53	71
Central State U.	323	61	44	37	69	61	44	37	69
CUNY, Brooklyn C.	324	169	212 i	221	68	152	211 i	220	65
Southern U. and A&M C., Baton Rouge	324	16	39	5	68	0	9	0	50
William Paterson U.	324	242	257	185	68	0	0	0	0
Northern Kentucky U.	327	0	0	81	65	0	0	71	59
Trinity C., Hartford	328	38	28	68	64	24	0	52	54
Middlebury C.	329	0	0	0	62	0	0	0	0
Mount Holyoke C.	329	162	370	147	62	145	347	147	57
C. Charleston	331	63	146	81	61	13	36	0	0
U. Arkansas, Fayetteville	332	407	286	97	60	277	148	71	34
New School	333	0	0	0	56	0	0	0	0
Stevens Institute of Technology	333	258	237	37	56	39	0	0	42
Oakland U.	335	22	73	34	55	22	28	34	55
Catholic U. of America	336	0	0	0	53	0	0	0	53
Grand Valley State U.	336	226	299	166	53	179	234	94	23
Ohio U.	336	76 i	101	90	53	15	67	76	25
U. North Carolina, Wilmington	339	98	83	105	51	91	80	48	20

TABLE 47

**Total and federally financed higher education R&D expenditures in mathematics and statistics, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
CUNY, New York City C. of Technology	340	239	694	409	50	87	138	0	0
East Tennessee State U.	340	0 i	19 i	149 i	50 i	0	16	123	37
Franklin and Marshall C.	340	252	255	52	50	115	126	22	47
Pacific U.	343	55	57	42	46	0	0	9	3
Augusta U.	344	0	23	13	44	0	23	13	44
Jackson State U.	344	89	68	97	44	66	47	84	39
U. of the Incarnate Word	346	140	127	148	42	140	127	148	42
California State U., Chico	347	124	61	57	41	118	61	10	0
Trinity U.	347	59	53	84	41	47	39	68	37
Northland C.	349	ne	ne	ne	40 i	ne	ne	ne	35 i
Northern Illinois U.	349	136	129	76	40	65	52	24	31
Oberlin C.	351	35	44	4	39	0	1	0	39
Santa Clara U.	351	0	6	22	39	0	0	20	15
Mills C.	353	0	0	16	38	0	0	0	0
Indiana State U.	354	10	27	23	37	10	27	23	37
U. Central Arkansas	355	198	45	24	35	65	10	15	16
Texas A&M U.-Commerce	356	32	13	26	34	0	0	0	0
Calvin U.	357	152	32	31 i	33 i	139	32	31 i	33 i
Albion C.	358	30	16	31	30 i	0	0	0	0 i
Hope C.	358	28	10	68	30	21	2	58	23
Appalachian State U.	360	146	41	90	29	0	0	5	0
Norfolk State U.	360	49	58	48	29	49	58	48	29
Drake U.	362	50	44	ne	28	48	37	ne	27
Haverford C.	362	94 i	63 i	127 i	28 i	68	29	65	12
U. of St. Thomas (MN)	362	55	37	43	28	30	17	40	28
Ball State U.	365	139	140	51	27	48	38	35	16
California State U., Los Angeles	366	46	28 i	10	26	46	28	10	26
Pepperdine U.	366	28	22	32	26	1	0	0	0
Central Connecticut State U.	368	ne	24	17	25	ne	0	0	0
U. Washington, Tacoma	368	18	0	47	25	18	0	47	25
Lafayette C.	370	292	119	69	24	274	102	56	13
Fort Valley State U.	371	0	36	184	22	0	0	158	22
Western Michigan U. and Homer Stryker M.D. School of Medicine	372	159	73	40	21	69	1	9	9
California State Polytechnic U., Pomona	373	291	42	138	20	213	33	102	20

TABLE 47

**Total and federally financed higher education R&D expenditures in mathematics and statistics, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Mercyhurst U.	373	ne	19 i	19 i	20 i	ne	10 i	10 i	11 i
Colorado State U., Pueblo	375	ne	11	6	19	ne	11	6	19
U. Houston-Downtown	375	119	75	10	19	111	72	9	17
U. North Florida	375	52	43	70	19	0	0	0	0
U. Wisconsin-Platteville	375	ne	20 i	21 i	19 i	ne	8 i	8 i	9 i
Colorado C.	379	128	38	23	18	104	15	0	0
Chapman U.	380	0	0	1	16	0	0	0	0
U. San Francisco	380	8	14	25	16	0	1	16	15
U. Maryland Center for Environmental Science	382	0	42	5	15	0	27	0	0
U. Wisconsin-Green Bay	382	14 i	18 i	18 i	15 i	6 i	8 i	9 i	7 i
Wheaton C., Wheaton	382	29	7	11	15	0	0	0	0
C. of Saint Benedict	385	19	18 i	17 i	14 i	0	0 i	0 i	2 i
Southern Illinois U., Carbondale	385	74	31	278	14	16	14	0	5
U. Ana G. Mendez, Gurabo	385	34	0	0	14	0	0	0	0
Biola U.	388	9 i	12 i	11 i	13 i	6 i	8 i	8 i	9 i
Saint John's U.	388	17	17 i	16 i	13 i	0	0 i	0 i	0 i
California State U., Monterey Bay	390	0	0	234	12	0	0	148	12
CUNY, John Jay C. of Criminal Justice	390	7	5	5	12	0	0	5	12
CUNY, York C.	390	ne	17	0	12	ne	0	0	0
Northwestern State U. Louisiana	390	12	19	19	12	0	0	0	0
U. Southern Maine	394	0	0	0	11	0	0	0	11
Barnard C.	395	84	74	27	10	82	66	22	0
Bowdoin C.	395	65	71	29	10	50	58	24	5
C. New Jersey	395	4	ne	6	10	3	ne	4	10
Hamilton C.	395	8	12	18	10	0	0	0	0
Willamette U.	395	88	11	10	10	80	0	0	0
Lawrence Technological U.	400	1	53	0	9	0	53	0	9
U. Texas, Tyler	400	100	95	22	9	93	76	20	2
Western Kentucky U.	400	73	55	27	9	18	48	11	4
Citadel Military C. South Carolina	403	ne	ne	3	8	ne	ne	0	0
Humboldt State U.	403	5	0	10	8	0	0	0	0
Purdue U., Fort Wayne	403	93	50	69	8	26	22	19	5
Saint Joseph's U.	403	14	17	6	8	0	0	0	0
East Carolina U.	407	51	11	75	7	0	0	0	0

TABLE 47

**Total and federally financed higher education R&D expenditures in mathematics and statistics, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Hobart and William Smith Colleges	408	ne	80	83	6	ne	78	83	5
Texas A&M U.-Corpus Christi	408	35	47	21	6	0	0	0	0
Union C., Schenectady	408	22	18	33	6	0	0	13	0
Winthrop U.	408	19	1	0	6	0	0	0	0
Niagara U.	412	5	4	9	5	0	0	0	0
U. of Mary Washington	412	17	12	8	5	0	0	0	4
U. Rhode Island	412	0	0	0	5	0	0	0	0
Florida A&M U.	415	43	0	0	4	41	0	0	0
Fort Lewis C.	415	ne	0	0	4	ne	0	0	4
Indiana U. Pennsylvania	415	12	20	26	4	0	0	0	0
Pennsylvania State U., Harrisburg	415	30	32	0	4	16	2	0	2
St. Olaf C.	415	90	109	51	4	55	87	23	0
Arkansas State U., Jonesboro	420	4	3	4	3	0	0	0	0
Colby C.	420	42	32	30	3	0	0	10	0
Delaware State U.	420	561	834	3 i	3	418	455	3 i	3
New Mexico Institute of Mining and Technology	420	150	155	53	3	150	155	50	0
SUNY, Geneseo	420	100	106	41	3	56	60	35	0
SUNY, Oswego	420	14	10	0	3	0	0	0	0
U. Arkansas, Pine Bluff	420	207	0	0	3	80	0	0	0
U. Dayton	420	0	0	4	3	0	0	0	0
U. Missouri, Kansas City	420	230	14	14	3	149	6	0	0
U. South Carolina, Aiken	420	0	0	0	3	0	0	0	0
U. Toledo	420	175	49	49	3	69	29	36	0
U. Tulsa	420	20	36	4	3	0	0	0	0
Western Carolina U.	420	7	7	11	3	0	0	3	3
Youngstown State U.	420	18	12	6	3	15	0	1	0
Bates C.	434	12	30	16	2	0	11	8	0
DePaul U.	434	0	0	0	2	0	0	0	0
Idaho State U.	434	0	0	0	2	0	0	0	0
Kettering U.	434	17	7	2	2	0	0	0	0
Austin Peay State U.	438	0	0	3	1	0	0	0	0
Eastern Washington U.	438	0	2	15	1	0	2	15	0
Gallaudet U.	438	0	3	3	1	0	0	0	1
Sul Ross State U.	438	0	0	0	1 i	0	0	0	0 i



TABLE 47

**Total and federally financed higher education R&D expenditures in mathematics and statistics, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
SUNY, C. Brockport	438	10	7	5	1	0	0	0	0
Texas Woman's U.	438	19	68	23	1	0	0	0	0
U. New England	438	2	0	0	1	0	0	0	0
U. Northern Iowa	438	10	4	1	1	0	0	0	0
West Texas A&M U.	438	105	52	1	1	93	50	0	0
Western Illinois U.	438	9	14	1	1	0	0	0	0
All other surveyed institutions	-	11,957	2,806	1,926	0	7,724	2,234	1,589	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

<sup>a</sup> Johns Hopkins University includes the Applied Physics Laboratory (APL), with \$114,770 thousand imputed for total and \$111,625 thousand reported for federally financed R&D expenditures in mathematics and statistics in FY 2021. Total expenditures by field for Johns Hopkins University are flagged as imputed because APL was unable to distribute a portion of institutionally funded R&D by field.

<sup>b</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

<sup>c</sup> The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

<sup>d</sup> The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

<sup>e</sup> The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

**Note(s):**

Institutions reporting zero expenditures in ranked total for FY 2021 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 48

**Higher education R&D expenditures in the physical sciences, ranked by all FY 2021 physical sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
All institutions	-	5,232,227	5,550,741	5,671,806	5,740,630	741,127	1,999,546	285,931	2,463,331	250,695
Johns Hopkins U. <sup>a</sup>	1	243,916	323,619	390,245	338,454	63,207	24,078	4,977	223,991	22,201
California Institute of Technology	2	188,604	188,041	217,581	212,265	49,083	37,366	25,102	100,714	0
Massachusetts Institute of Technology	3	124,145	136,601	153,044	170,494	33,094	37,408	6,657	57,207	36,128
Michigan State U.	4	169,148	151,159	154,318	167,520	65	12,568	0	154,887	0
U. California, Berkeley	5	130,883	130,895	141,434	156,896	71,360	41,402	79	33,755	10,300
U. Arizona	6	127,847	139,315	149,138	140,655	113,367	15,246	2,918	9,072	52
U. Colorado Boulder	7	84,938	107,416	115,340	120,677	34,368	9,383	0	70,498	6,428
Cornell U.	8	122,144	122,968	121,218	120,151	11,395	27,978	3,682	53,686	23,410
Harvard U.	9	84,054	94,515	100,654	109,606	11,658	37,078	0	59,910	960
U. Maryland <sup>b</sup>	10	na	102,720	105,718	101,322	37,980	9,419	1,990	42,274	9,659
U. Rochester	11	93,061	111,388	101,004	99,556	0	5,705	0	93,851	0
Princeton U.	12	82,329	88,235	94,815	99,326	27,282	29,163	6,744	35,249	888
Stanford U.	13	88,010	95,084	94,954	98,672	4,776	27,849	14,149	47,667	4,231
Pennsylvania State U., University Park and Hershey Medical Center	14	93,913	99,485	94,201	89,035	13,659	16,923	38,139	20,314	0
U. Wisconsin-Madison	15	73,381	75,231	83,687	87,587	5,556	33,896	0	26,135	22,000
U. California, San Diego	16	67,509	85,322	94,124	86,893	1,552	27,339	0	56,983	1,019
U. Texas, Austin	17	77,735	81,357	81,380	85,250	12,621	18,584	30,671	23,011	363
Northwestern U.	18	82,409	82,072	78,168	83,618	6,676	36,484	16,535	19,296	4,627
U. Illinois, Urbana-Champaign	19	69,612	69,531	72,360	78,698	9,377	35,360	0	33,961	0
U. California, San Francisco	20	63,010	65,942	69,662	69,817	0	68,492	0	1,325	0
U. Michigan, Ann Arbor	21	59,815	61,017	60,824	66,041	5,831	33,006	0	27,204	0
Florida State U.	22	67,753	61,706	68,454	63,481	738	20,686	3,270	38,309	478
U. Pennsylvania	23	55,476	60,150	58,157	59,246	1,305	23,124	14,089	20,728	0
U. Washington, Seattle	24	54,074	58,166	60,477	58,664	11,176	23,508	1,629	18,479	3,872
Yale U.	25	63,981	62,247	56,046	56,847	5,472	21,464	0	29,911	0
U. California, Los Angeles	26	55,568	60,067	54,697	56,624	0	24,038	0	30,227	2,359
Texas A&M U., College Station and Health Science Center	27	54,890	55,920	54,574	56,029	11,106	23,182	4,703	16,238	800
U. Chicago	28	51,285	52,656	51,122	55,032	9,618	24,034	5,628	15,752	0
U. California, Santa Barbara	29	49,160	65,929	58,534	54,435	4,379	8,346	14,586	26,695	429
U. Houston	30	32,572	43,378	50,164	52,230	85	43,502	322	7,385	936
U. Notre Dame	31	42,506	45,062	44,855	47,332	0	30,859	0	16,473	0

TABLE 48

## Higher education R&amp;D expenditures in the physical sciences, ranked by all FY 2021 physical sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Columbia U. in the City of New York	32	32,070	35,369	37,384	46,386	7,983	16,528	4,472	17,403	0
SUNY, Stony Brook U.	33	39,938	41,679	41,224	43,101	2,491	13,646	0	26,964	0
Purdue U., West Lafayette	34	37,542	38,081	42,370	42,663	0	26,272	0	16,391	0
U. Minnesota, Twin Cities	35	39,527	45,573	43,946	41,812	1,989	20,661	0	19,162	0
Ohio State U.	36	39,895	46,223	57,083	40,010	4,357	15,540	394	19,719	0
U. North Carolina, Chapel Hill	37	35,118	37,055	39,979	38,809	796	23,102	0	10,003	4,908
U. California, Irvine	38	37,914	40,872	40,964	38,794	0	18,924	0	19,684	186
U. Central Florida	39	27,810	30,415	34,493	37,144	0	4,027	0	33,116	1
U. California, Santa Cruz	40	29,547	32,576	36,262	35,606	17,827	10,689	0	6,919	171
Boston U.	41	29,879	30,805	30,909	35,094	2,256	17,695	0	15,143	0
Georgia Institute of Technology	42	37,983	38,229	34,215	33,914	0	22,555	0	11,359	0
Rice U.	43	29,448	34,759	33,656	33,015	2,183	15,332	1,034	14,466	0
U. Iowa	44	25,142	24,300	23,226	32,013	267	5,342	0	26,404	0
U. Utah	45	24,919	54,131	30,170	30,441	0	19,435	2,061	8,945	0
Indiana U., Bloomington	46	26,019	31,099	33,608	30,322	1,405	17,500	0	11,417	0
Vanderbilt U. and Vanderbilt U. Medical Center	47	29,053	28,951	28,017	30,077	0	16,401	0	13,676	0
North Carolina State U.	48	21,204	22,753	23,464	28,455	0	16,108	0	12,217	130
U. Florida	49	25,940	26,341	25,532	28,005	1,841	12,984	0	13,180	0
Florida International U.	50	18,688	24,968	27,354	27,997	0	22,439	0	5,218	340
U. Pittsburgh, Pittsburgh	51	30,869	30,196	27,652	27,919	3,695	15,518	0	8,706	0
U. California, Davis	52	23,212	26,589	26,495	27,906	0	14,017	0	9,032	4,857
U. Virginia, Charlottesville	53	25,154	26,742	27,628	27,304	3,780	12,853	0	10,671	0
Arizona State U.	54	24,779	26,050	25,619	26,742	0	11,762	0	14,980	0
Iowa State U.	55	42,277	40,040	27,216	26,696	0	11,950	0	14,746	0
New York U.	56	23,915	26,098	26,698	26,417	0	14,156	0	12,261	0
U. Hawaii, Manoa	57	23,775	27,285	29,491	26,381	19,460	1,722	0	4,291	908
Dartmouth C. and Dartmouth Hitchcock Medical Center	58	18,977	18,757	21,219	26,312	0	12,008	25	14,279	0
Washington State U.	59	31,387	32,628	24,243	26,256	166	13,478	1,598	10,978	36
U. Delaware	60	23,634	27,410	25,192	26,015	1,110	9,404	10,978	4,523	0
Emory U.	61	22,517	23,150	22,505	25,676	0	20,841	0	4,835	0
U. Nebraska, Lincoln	62	28,112	26,100	25,853	25,194	0	10,171	406	14,617	0
Virginia Polytechnic Institute and State U.	63	21,049	26,835	24,214	24,374	130	14,389	1,184	7,913	758
Washington U., Saint Louis	64	22,345	24,852	23,401	24,320	0	11,696	6,944	5,680	0

TABLE 48

**Higher education R&D expenditures in the physical sciences, ranked by all FY 2021 physical sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Northeastern U.	65	17,483	19,445	20,709	24,279	0	8,833	0	15,248	198
Louisiana State U., Baton Rouge	66	24,133	23,944	22,366	23,438	0	10,020	0	12,979	439
Montana State U., Bozeman	67	10,912	15,021	17,990	23,329	0	13,389	0	9,940	0
Rutgers, State U. New Jersey, New Brunswick	68	26,313	29,660	25,703	23,111	1,730	5,579	2,320	13,193	289
U. Massachusetts, Amherst	69	24,443	31,623	28,757	22,250	4,116	10,139	0	7,995	0
Duke U.	70	19,322	21,176	22,396	22,131	0	11,536	0	10,595	0
U. Southern California	71	17,751	20,109	23,644	21,413	2	12,687	2,965	5,759	0
Carnegie Mellon U.	72	20,096	19,508	21,580	21,109	0	8,696	600	11,111	702
U. Tennessee, Knoxville <sup>c</sup>	73	24,307	25,677	21,239	20,809	0	6,532	0	14,277	0
New Mexico State U.	74	25,776	25,535	26,366	20,108	7,012	2,141	0	1,675	9,280
Wayne State U.	75	17,898	20,013	16,895	19,885	0	12,458	0	4,254	3,173
Catholic U. of America	76	19,319	17,660	17,669	19,708	185	101	0	13,988	5,434
U. Maryland, Baltimore County	77	13,821	17,039	18,278	19,202	13,537	2,106	690	2,869	0
U. Massachusetts, Lowell	78	14,184	17,976	19,144	18,308	0	5,555	0	12,753	0
Temple U.	79	15,235	16,205	18,447	17,979	0	9,251	0	6,242	2,486
U. Illinois, Chicago	80	12,602	14,456	15,752	17,718	0	9,326	0	8,392	0
U. Connecticut	81	16,816	16,829	18,546	17,682	0	4,998	7,202	5,482	0
Georgia State U.	82	17,221	17,836	19,395	17,588	3,653	9,032	0	4,705	198
U. Texas M. D. Anderson Cancer Center	83	15,858	19,017	19,060	17,572	0	0	0	17,572	0
U. California, Riverside	84	16,505	16,166	17,037	17,559	0	9,556	0	8,003	0
Brown U.	85	20,720	19,259	17,745	17,072	0	5,495	0	8,542	3,035
U. Texas, Arlington	86	16,067	15,590	17,257	16,864	0	5,631	0	10,373	860
U. Oklahoma, Norman and Health Science Center	87	14,899	15,362	18,739	16,497	0	10,051	0	6,446	0
U. Texas, Dallas	88	12,433	15,515	17,759	16,444	3,767	6,253	39	4,550	1,835
U. Alaska, Fairbanks	89	13,107	13,534	15,551	16,441	16,237	87	0	0	117
Air Force Institute of Technology	90	5,871	8,478	7,796	15,999	0	0	0	15,999	0
Texas Tech U.	91	15,455	14,408	15,103	15,784	0	7,686	545	7,553	0
U. Kansas	92	8,845	8,686	7,502	15,492	748	11,480	0	3,264	0
New Jersey Institute of Technology	93	13,042	15,338	16,781	15,415	7,655	2,846	761	4,153	0
Auburn U., Auburn	94	11,626	13,220	15,247	15,214	22	5,463	425	9,147	157
Brandeis U.	95	10,266	9,838	13,701	15,157	0	7,463	0	7,631	63
U. Alabama, Huntsville	96	14,459	12,963	13,353	15,071	11,601	1,165	0	2,284	21
U. Southern Mississippi	97	13,416	15,682	13,422	14,672	223	12,382	0	0	2,067

TABLE 48

## Higher education R&amp;D expenditures in the physical sciences, ranked by all FY 2021 physical sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
SUNY, Binghamton U.	98	20,446	14,920	18,586	14,568	0	10,445	0	4,123	0
Syracuse U.	99	13,242	15,894	13,905	13,926	0	4,742	0	9,184	0
U. Oregon	100	13,908	14,773	12,984	13,881	0	6,477	834	3,462	3,108
SUNY, U. Buffalo	101	13,301	11,644	11,161	13,431	0	10,122	26	3,283	0
Colorado State U., Fort Collins	102	13,908	14,464	11,356	12,947	0	8,806	737	2,956	448
Kansas State U.	103	13,475	14,413	12,583	12,736	0	3,977	0	8,759	0
West Virginia U.	104	15,392	14,339	12,678	12,431	3,035	4,509	0	4,887	0
Rochester Institute of Technology	105	12,578	18,059	13,830	12,388	0	492	0	3,585	8,311
Rensselaer Polytechnic Institute	106	14,662	15,038	12,143	12,251	0	6,355	444	2,883	2,569
Boston C.	107	8,313	9,572	9,306	11,863	0	8,543	0	3,320	0
U. Texas, San Antonio	108	11,561	10,617	11,234	11,547	0	7,037	0	4,510	0
U. Wisconsin-Milwaukee	109	14,409	11,076	8,699	10,970	5,967	1,679	0	3,324	0
U. Georgia	110	19,257	13,275	11,295	10,896	339	8,057	1	2,499	0
Colorado School of Mines	111	8,980	8,796	11,346	10,812	47	3,333	1,699	5,336	397
U. Mississippi	112	10,951	14,617	11,652	10,803	0	3,235	0	7,568	0
Mississippi State U.	113	10,131	11,312	10,381	10,755	5	4,790	2,117	3,675	168
U. Toledo	114	8,752	7,438	7,445	10,594	742	3,069	0	6,700	83
U. Nevada, Las Vegas	115	9,520	9,099	9,692	10,589	160	5,482	0	4,851	96
Georgetown U.	116	6,488	7,281	9,151	10,525	0	2,694	0	7,444	387
Clemson U.	117	12,320	11,401	10,823	10,139	0	3,121	107	5,915	996
North Dakota State U.	118	6,900	6,903	6,502	10,077	0	3,801	5,306	970	0
U. South Florida <sup>d</sup>	119	12,725	14,060	11,433	9,900	0	5,647	0	3,623	630
U. Alabama, Birmingham	120	7,211	5,961	4,678	9,885	0	2,415	5,131	2,339	0
Tufts U.	121	68,855	11,377	15,438	9,212	8	7,178	0	1,872	154
U. Cincinnati	122	9,056	9,641	8,874	9,189	0	5,987	0	3,202	0
U. Texas, El Paso	123	7,841	7,587	6,775	9,092	0	6,291	0	2,801	0
Kent State U.	124	6,597	7,744	8,381	9,048	45	2,387	3,441	2,378	797
Case Western Reserve U.	125	5,756	10,756	8,063	9,007	215	2,785	4,241	1,702	64
Oklahoma State U., Stillwater	126	8,503	8,458	9,784	8,824	0	4,341	0	4,483	0
U. Kentucky	127	7,069	8,173	8,553	8,722	0	5,598	0	3,124	0
U. Missouri, Columbia	127	13,985	10,286	9,173	8,722	0	5,501	0	3,221	0
U. North Texas, Denton	129	5,358	7,586	9,275	8,710	0	5,451	1	3,205	53
CUNY, City C.	130	10,496	9,935	9,591	8,709	0	4,978	0	3,553	178

TABLE 48

**Higher education R&D expenditures in the physical sciences, ranked by all FY 2021 physical sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
U. Montana, Missoula	131	6,570	7,749	7,592	8,615	0	2,554	0	231	5,830
Xavier U. Louisiana	132	6,921	5,879	7,186	8,440	0	8,440	0	0	0
Baylor U.	133	6,994	6,891	6,993	8,289	24	5,111	15	2,955	184
Jackson State U.	134	8,859	9,159	9,903	8,231	0	7,071	0	1,160	0
Northern Arizona U.	135	3,763	5,643	7,064	8,120	4,786	780	1,051	858	645
U. Arkansas, Fayetteville	136	9,667	9,454	9,791	8,111	0	4,668	0	3,443	0
U. Nevada, Reno	137	11,017	10,153	9,566	8,025	44	3,935	34	2,947	1,065
U. Alabama, Tuscaloosa	138	7,501	5,815	6,471	7,991	133	3,853	0	4,005	0
U. California, Office of the President	139	13,253	7,973	8,123	7,905	7,905	0	0	0	0
California State U., Northridge	140	2,672	3,225	5,407	7,447	252	406	0	1,525	5,264
U. New Mexico	141	8,970	7,148	8,063	7,087	862	2,174	0	4,044	7
George Washington U.	142	7,191	7,634	8,313	7,033	0	3,281	0	3,752	0
Old Dominion U.	143	6,562	7,547	7,028	7,021	0	2,470	0	4,551	0
U. South Carolina, Columbia	144	7,025	7,007	4,651	6,928	0	2,682	0	3,050	1,196
Rockefeller U.	145	8,539	7,577	7,184	6,835	0	5,530	0	1,305	0
U. Maine	146	5,451	7,628	6,427	6,803	0	1,157	0	5,645	1
SUNY, U. Albany	147	7,858	7,811	7,719	6,791	0	4,814	0	1,977	0
U. Akron	148	10,305	9,643	8,576	6,703	0	6,703	0	0	0
San Diego State U.	149	5,873	6,333	6,402	6,681	701	4,386	0	1,594	0
U. Louisiana, Lafayette	150	3,011	1,369	3,546	6,453	103	1,029	1,879	3,442	0
Brigham Young U., Provo	151	4,905	5,854	5,268	6,357	0	4,020	0	2,337	0
CUNY, Advanced Science Research Center	152	747	2,983	4,154	6,107	0	1,617	0	4,490	0
William & Mary	153	5,219	6,554	5,781	5,985	0	494	0	5,491	0
Naval Postgraduate School	154	6,105	8,797	9,161	5,927	82	422	288	4,070	1,065
Boise State U.	155	3,737	3,358	3,788	5,881	197	745	4,808	131	0
U. California, Merced	156	6,260	7,307	7,593	5,753	0	2,919	0	2,344	490
Howard U.	157	4,058	5,277	5,308	5,720	0	5,000	0	720	0
Oakland U.	158	2,026	4,650	4,821	5,596	0	2,777	0	2,819	0
Ohio U.	159	5,358	4,501	5,370	5,520	0	1,432	0	4,088	0
CUNY, Hunter C.	160	4,500	4,739	4,197	5,489	62	4,412	0	1,015	0
Northern Illinois U.	161	6,446	6,106	5,560	5,454	0	1,579	0	3,875	0
Georgia Southern U.	162	842	692	5,465	5,400	94	1,951	2,940	415	0
California State U., Los Angeles	163	5,202	6,385	5,241	5,165	0	4,770	0	395	0

TABLE 48

**Higher education R&D expenditures in the physical sciences, ranked by all FY 2021 physical sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Utah State U.	164	5,962	6,756	6,606	5,111	0	2,926	0	2,172	13
Tulane U.	165	5,732	6,448	5,720	5,018	0	2,227	0	2,791	0
U. Miami	166	5,861	5,567	5,150	5,000	0	1,318	0	3,682	0
U. New Hampshire	167	4,554	3,521	4,425	4,957	0	1,808	363	2,786	0
California Polytechnic State U., San Luis Obispo	168	1,884	7,589	5,672	4,953	0	460	0	1,757	2,736
U. Puerto Rico, Rio Piedras	169	3,739	5,127	4,429	4,886	0	2,967	0	1,919	0
George Mason U.	170	4,783	6,295	5,586	4,786	1,504	1,062	1,317	646	257
Oregon State U.	171	4,801	6,247	4,814	4,727	16	2,652	405	1,564	90
Southern Methodist U.	172	3,339	3,591	3,847	4,598	0	2,094	0	2,504	0
Missouri U. of Science and Technology	173	3,614	3,463	6,107	4,478	0	2,605	0	1,873	0
American U.	174	3,545	5,167	4,714	4,404	0	790	0	3,614	0
U. Vermont	175	2,297	3,235	4,877	4,354	0	3,250	0	1,104	0
U. Texas Rio Grande Valley	176	2,843	4,499	5,148	4,338	2,516	617	6	807	392
U. North Carolina, Greensboro	177	3,494	3,521	3,505	4,250	0	2,216	0	44	1,990
Abilene Christian U.	178	ne	ne	ne	4,209	0	0	0	4,209	0
U. Massachusetts, Boston	179	2,273	3,363	3,584	4,174	0	2,695	0	1,479	0
Michigan Technological U.	180	3,486	3,722	4,094	4,085	0	1,867	0	2,218	0
U. Denver	181	4,589	4,083	4,913	3,977	100	2,647	0	1,230	0
Miami U.	182	1,913	1,046	1,329	3,940	0	3,798	0	142	0
Marquette U.	183	2,789	2,517	2,681	3,903	0	3,476	0	427	0
Embry-Riddle Aeronautical U.	184	1,954	2,332	2,744	3,853	0	0	0	2,244	1,609
Worcester Polytechnic Institute	185	3,096	4,991	2,773	3,852	0	1,613	0	2,239	0
U. South Dakota	186	2,957	5,059	4,054	3,713	0	2,022	0	1,691	0
Lehigh U.	187	5,081	3,396	3,495	3,642	0	2,065	0	1,577	0
Florida Institute of Technology	188	2,253	2,078	2,777	3,547	465	466	0	2,513	103
Illinois Institute of Technology	189	3,843	3,609	3,143	3,483	0	334	39	3,110	0
San Jose State U.	190	1,649	2,041	2,445	3,437	7	2,097	0	1,301	32
Texas State U.	191	3,248	2,741	2,208	3,421	0	1,791	0	1,251	379
San Francisco State U.	192	3,734	3,088	3,208	3,418	341	1,871	242	927	37
Hampton U.	193	4,129	4,044	3,142	3,409	0	0	0	3,409	0
Virginia Commonwealth U.	194	3,607	3,469	3,499	3,396	0	2,017	0	1,379	0
U. Memphis	195	1,883	2,157	3,014	3,372	106	2,347	0	770	149
U. North Carolina, Charlotte	196	3,935	4,389	4,003	3,367	0	1,610	0	1,757	0

TABLE 48

## Higher education R&amp;D expenditures in the physical sciences, ranked by all FY 2021 physical sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
U. Rhode Island	197	3,713	3,194	3,869	3,328	0	1,957	0	20	1,351
North Carolina Central U.	198	3,575	2,774	3,027	3,257	0	656	0	2,601	0
U. Louisville	199	1,805	3,058	2,954	3,254	115	1,813	172	702	452
Villanova U.	200	2,248	2,743	3,573	3,095	719	1,884	0	492	0
Middle Tennessee State U.	201	388	417	596	2,967	43	2,632	0	292	0
U. North Dakota	202	3,119	3,607	3,489	2,964	0	2,152	0	812	0
Indiana U.-Purdue U., Indianapolis	203	2,132	2,396	2,306	2,748	0	2,262	0	486	0
Florida Atlantic U.	204	2,653	2,794	3,147	2,726	37	1,668	0	849	172
California State U., Long Beach	205	4,445	4,363	2,670	2,723	535	2,188	0	0	0
Rutgers, State U. New Jersey, Newark	206	2,162	1,978	2,384	2,667	0	2,296	0	371	0
U. New Orleans	207	1,939	2,144	2,398	2,652	0	1,903	0	749	0
U. Massachusetts, Dartmouth	208	1,208	1,755	2,116	2,650	0	1,934	0	716	0
California State U., East Bay	209	ne	ne	939	2,441	0	947	0	1,177	317
Clarkson U.	210	1,055	2,498	2,217	2,414	0	945	464	1,005	0
U.S. Air Force Academy	211	1,521	2,933	2,714	2,398	0	552	0	1,846	0
Bowling Green State U.	212	3,112	2,362	2,326	2,345	0	1,561	0	784	0
U. Missouri, Saint Louis	212	2,333	2,636	1,910	2,345	51	2,255	0	39	0
Haverford C.	214	1,195 i	2,039 i	2,581 i	2,342 i	346 i	357 i	1,552 i	87 i	0 i
Louisiana Tech U.	214	2,058	1,843	1,775	2,342	0	1,051	0	1,055	236
Delaware State U.	216	3,709	4,306	2,210 i	2,304	0	276	143	1,340	545
Wake Forest U.	217	1,755	3,071	2,196	2,236	0	1,010	146	1,080	0
Western Washington U.	218	1,322	1,183	1,323	2,191	513	1,218	460	0	0
Wesleyan U.	219	2,998	2,876	2,383	2,137	401	827	0	909	0
Saint Louis U.	220	1,685	2,384	1,942	2,131	0	2,120	0	11	0
Drexel U.	221	3,806	2,793	2,437	2,074	0	735	0	1,339	0
Stevens Institute of Technology	222	1,520	2,045	1,834	2,066	0	548	0	1,518	0
CUNY, Lehman C.	223	2,181	1,624	2,208	2,062	0	1,567	0	495	0
Southern Illinois U., Carbondale	224	3,163	1,619	2,013	2,052	0	1,441	0	537	74
Hope C.	225	1,859	1,843	1,315	2,032	0	1,238	0	615	179
California State U., San Bernardino	226	1,337	1,219	1,569	1,992	0	1,706	206	80	0
Portland State U.	227	3,450	2,911	2,326	1,977	0	1,646	14	317	0
South Dakota State U.	228	2,964	2,951	1,974	1,943	0	1,857	0	86	0
Central Michigan U.	229	2,426	2,908	2,508	1,891	187	52	0	1,651	1



TABLE 48

## Higher education R&amp;D expenditures in the physical sciences, ranked by all FY 2021 physical sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Mercer U.	230	1,694	2,189	2,038	1,878	0	1,786	0	92	0
Idaho State U.	231	4,490	3,709	1,372	1,847	0	959	3	885	0
Morehouse C.	232	2,740	1,704	1,517	1,831	0	298	0	146	1,387
James Madison U.	233	1,297	1,295	1,337	1,825	20	941	0	516	348
South Dakota School of Mines and Technology	234	1,848	1,602	1,425	1,824	0	681	0	1,143	0
CUNY, Queens C.	235	1,463	1,446	1,444	1,815	0	1,289	0	423	103
East Carolina U.	236	1,464	2,177	2,168	1,814	0	1,193	0	621	0
U. Wyoming	237	4,632	1,825	1,248	1,808	177	625	0	549	457
U. Idaho	238	1,871	2,030	1,539	1,646	609	683	108	246	0
Fisk U.	239	197	0	212	1,645	0	160	463	1,022	0
Creighton U.	240	1,381	i 1,691	i 1,463	i 1,621	i 0	i 670	i 0	i 951	i 0
Clark Atlanta U.	241	992	1,265	1,649	1,616	0	1,139	0	477	0
U.S. Naval Academy	242	2,173	2,794	2,144	1,604	0	603	0	1,001	0
U. Colorado Denver <sup>e</sup>	243	na	na	na	1,574	0	1,157	0	417	0
Rowan U.	244	1,056	1,190	664	1,524	0	676	0	752	96
Wright State U.	245	2,720	1,757	1,774	1,465	0	222	0	975	268
U. Missouri, Kansas City	246	2,168	2,026	1,680	1,451	128	353	0	897	73
Wichita State U.	247	649	947	1,114	1,438	0	1,095	0	0	343
Clark U.	248	664	889	1,648	1,386	0	317	0	1,069	0
U. San Diego	249	975	1,300	1,496	1,377	0	498	0	879	0
Southern Illinois U., Edwardsville	250	1,720	586	911	1,374	0	849	0	525	0
U. West Florida	251	472	696	1,202	1,356	0	515	0	0	841
Prairie View A&M U.	252	1,741	1,082	1,353	1,348	0	623	33	692	0
Florida A&M U.	253	6,083	3,488	1,410	1,346	0	23	0	1,323	0
California State U., Fullerton	254	1,156	1,180	1,254	1,343	702	159	34	448	0
CUNY, Brooklyn C.	255	1,240	1,067	i 1,105	1,325	0	1,127	0	198	0
Barnard C.	256	520	1,004	885	1,319	824	495	0	0	0
Chapman U.	257	1,280	1,816	2,062	1,314	0	247	0	88	979
California State U., Fresno	258	1,114	1,157	1,127	1,307	0	1,129	0	178	0
Grambling State U.	259	1,063	845	852	1,238	0	756	0	238	244
Williams C.	260	1,372	1,312	1,245	i 1,237	i 209	i 152	i 0	i 323	i 553
Western Kentucky U.	261	2,019	1,845	1,785	1,205	0	772	0	433	0
Amherst C.	262	1,500	2,374	1,534	1,203	i 53	i 580	i 0	i 570	i 0

TABLE 48

## Higher education R&amp;D expenditures in the physical sciences, ranked by all FY 2021 physical sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
SUNY, Geneseo	263	932	902	785	1,197	0	269	0	928	0
U. Arkansas, Pine Bluff	264	405	448	540	1,175	0	1,175	0	0	0
Illinois State U.	265	658	886	567	1,171	0	891	0	280	0
Texas Southern U.	266	196	211	1,204	1,168	0	801	0	199	168
Trinity U.	267	1,316	1,369	1,230	1,165	0	1,026	0	139	0
U. Alaska, Anchorage	268	17	16	184	1,160	144	984	0	32	0
North Carolina Agricultural and Technical State U.	269	1,808	1,889	1,638	1,158	0	248	0	910	0
New Mexico Institute of Mining and Technology	270	1,464	1,970	1,361	1,151	0	167	0	984	0
California State Polytechnic U., Pomona	271	1,701	693	1,395	1,150	905	205	0	40	0
Western Michigan U. and Homer Stryker M.D. School of Medicine	272	1,266	1,221	1,309	1,148	0	611	0	537	0
Kennesaw State U.	273	944	1,169	1,019	1,133	0	880	0	253	0
Bryn Mawr C.	274	1,285	1,057	1,423	1,119	0	657	0	462	0
Furman U.	275	1,146	983	925	1,114	0	1,105	0	9	0
Troy U.	276	ne	ne	1,216	1,102	0	0	1,102	0	0
St. Edward's U.	277	760	456	1,074	1,101	174	865	0	52	10
Texas A&M U.-Corpus Christi	278	356	1,362	1,437	1,089	0	268	70	0	751
U. Puerto Rico, Humacao	279	933	852	1,090	1,083	0	81	583	419	0
U. of the Virgin Islands	280	0	15	908	1,069	0	80	0	989	0
Fordham U.	281	68	868	747	1,067	0	1,067	0	0	0
California State U., San Marcos	282	1,106	901	1,667	1,063	0	33	0	339	691
U. Wisconsin-Eau Claire	283	716	930	814	1,041	19	577	428	17	0
Loyola U., Chicago	284	1,128	1,286	763	1,026	0	860	0	166	0
U. Puerto Rico, Mayaguez	285	1,739	1,172	1,347	1,002	0	616	0	386	0
South Carolina State U.	286	1,630	930	965	1,000	180	0	0	189	631
Long Island U.	287	60	198	784	996	0	845	0	151	0
Texas A&M U.-Commerce	288	1,125	883	939	995	0	212	0	783	0
C. Charleston	289	880	923	700	983	188	57	515	223	0
Cleveland State U.	290	1,318	1,372	1,547	976	0	549	0	427	0
U. Northern Iowa	291	731	1,289	911	966	0	841	0	125	0
Winston-Salem State U.	292	255	320	554	956	2	673	0	0	281
U. Dayton	293	1,579	1,247	868	910	0	194	205	511	0
Swarthmore C.	294	1,120	946	734	891	180	475	0	236	0

TABLE 48

## Higher education R&amp;D expenditures in the physical sciences, ranked by all FY 2021 physical sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Colgate U.	295	682	769	618	884	69	426	0	389	0
Tennessee Technological U.	296	1,491	1,289	1,178	879	0	374	0	504	1
Reed C.	297	374	623	886	866 i	0 i	738 i	0 i	128 i	0 i
Fort Lewis C.	298	ne	1	470	835	0	394	441	0	0
Ball State U.	299	700	993	834	826	0	667	0	65	94
Bucknell U.	300	650	538	872 i	816	275	456	0	85	0
Morgan State U.	301	116	34	411	774	0	389	0	385	0
Norfolk State U.	302	800	819	726	763	0	31	0	732	0
Occidental C.	303	355	424	414	762	0	535	0	111	116
Montclair State U.	304	256	260	589	737	29	689	0	19	0
Christopher Newport U.	305	386	758	829	731	0	26	0	705	0
U. Central Oklahoma	306	718	701	696 i	729 i	0 i	146 i	0 i	583 i	0 i
Towson U.	307	898	787	476	723	25	420	0	278	0
Grinnell C.	308	1,127	1,012	742	691	119	341	0	231	0
Skidmore C.	309	253	334	363	689	0	647	0	42	0
U. of the Sciences Philadelphia	310	730	644	580	686	0	652	0	34	0
U. Arkansas, Little Rock	311	905	926	1,105	685	0	685	0	0	0
U. Washington, Bothell	312	35	256	156	681	0	0	0	681	0
Northern Kentucky U.	313	490	701	778	671	15	497	0	159	0
Arkansas State U., Jonesboro	314	745	988	876	665	0	647	0	18	0
Franklin and Marshall C.	315	994	722	539	660	60	444	0	156	0
U. Nebraska, Kearney	316	230	652	320	657	0	630	0	16	11
Middlebury C.	317	418	459	429	648	155	201	0	276	16
Alabama A&M U.	318	1,257 i	932 i	636 i	627 i	0 i	297 i	0 i	330 i	0 i
U. South Alabama	319	278	471	433	626	0	589	0	37	0
U. Minnesota, Duluth	320	1,005	1,065	840	624	0	374	0	250	0
Duquesne U.	321	2,631	2,581	2,326	615	0	569	0	46	0
U. North Florida	322	568	524	682	608	0	446	0	162	0
Appalachian State U.	323	330	262	408	591	101	124	0	320	46
Southern U. and A&M C., Baton Rouge	324	1,556	1,167	735	583	0	133	0	450	0
Southern Connecticut State U.	325	622	430	846	576	390	38	0	91	57
New Mexico Highlands U.	326	714	ne	541	568 i	0 i	568 i	0 i	0 i	0 i
U. Central Arkansas	326	622	665	585	568	0	298	0	255	15

TABLE 48

## Higher education R&amp;D expenditures in the physical sciences, ranked by all FY 2021 physical sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
U. North Carolina, Asheville	328	313	680	958	558	41	86	0	0	431
Mount Holyoke C.	329	1,248	1,037	496	550	158	28	0	364	0
CUNY, Graduate Center	330	0	353	630	547	0	0	0	547	0
Carleton C.	331	640	723	704	531	37	244	0	250	0
Harvey Mudd C.	331	929	526	543	531	0	169	0	362	0
CUNY, C. Staten Island	333	1,547 i	1,657	860	525	0	282	0	242	1
Spelman C.	334	620	595	713	523	0	523	0	0	0
U. Maryland Center for Environmental Science	335	702	289	541	519	0	413	0	61	45
Santa Clara U.	336	792	423	487	516	0	368	0	148	0
Sam Houston State U.	337	390	550	481	503	0	333	0	170	0
Smith C.	338	433	499	321	495	29	246	0	220	0
U. Wisconsin-La Crosse	339	406	298	416	476	80	144	0	252	0
West Chester U. Pennsylvania	340	648	504	425	466	66	162	0	238	0
Calvin U.	341	542	462	441 i	458 i	0 i	321 i	0 i	137 i	0 i
Augustana U.	342	522	358	ne	457	0	159	0	298	0
U. Richmond	343	600	450	430	454	0	363	0	91	0
Davidson C.	344	333	352	242	451	0	162	0	107	182
Macalester C.	344	458	435	377	451	0	179	0	272	0
California State U., Bakersfield	346	6	420	91	447	0	447	0	0	0
Salisbury U.	347	128	534	212	440	0	392	0	48	0
Bowie State U.	348	293	246	272	438	0	389	0	0	49
Albion C.	349	273	380	422	435 i	18 i	207 i	0 i	86 i	124 i
Tennessee State U.	349	511	452	435	435 i	376 i	59 i	0 i	0 i	0 i
U. North Carolina, Wilmington	349	525	597	375	435	0	126	0	118	191
C. New Jersey	352	305	ne	366	423	0	184	0	239	0
California State U., Dominguez Hills	353	837	821	556	418	0	418	0	0	0
Bates C.	354	575	531	405	413	0	238	0	175	0
SUNY, C. of Environmental Science and Forestry	355	175	257	294	404	186	155	0	0	63
U. Tulsa	356	866	585	424	403	0	196	0	207	0
Texas Christian U.	357	784	690	695	398	57	168	0	173	0
Seton Hall U.	358	0	0	401	396	0	396	0	0	0
U. Colorado Anschutz Medical Campus <sup>e</sup>	359	na	na	na	391	0	0	0	391	0
U. Houston-Downtown	360	73	77	72	382	0	139	0	0	243

TABLE 48

**Higher education R&D expenditures in the physical sciences, ranked by all FY 2021 physical sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Winthrop U.	360	358	443	317	382	0	161	221	0	0
Ithaca C.	362	ne	ne	378	379	160	172	0	47	0
Indiana U. Pennsylvania	363	208	269	425	364	0	175	0	189	0
Tarleton State U.	364	125	303	263	359	0	357	0	0	2
Tougaloo C.	364	848	849	361	359 i	0 i	278 i	0 i	81 i	0 i
Pomona C.	366	652	519	872	347	68	112	0	167	0
Missouri State U.	367	180	386	418	345	110	27	0	208	0
St. John's U., New York	367	311	273	405	345	0	344	0	1	0
U.S. Military Academy	369	120	35	814	338	0	150	44	144	0
Youngstown State U.	370	92	135	346	335	139	171	0	25	0
CUNY, New York City C. of Technology	371	48	350	212	331	0	5	0	326	0
SUNY, Oswego	372	538	388	314	328	0	282	0	46	0
Wellesley C.	373	1,240	1,426	391	327	0	277	0	23	27
U. New Haven	374	207	576	285	323	0	49	216	1	57
Rhode Island C.	375	130	132	361	320	0	0	0	0	320
Johnson C. Smith U.	376	228	66	300	318 i	0 i	318 i	0 i	0 i	0 i
U. Colorado Colorado Springs	377	472	217	270	310	0	57	0	185	68
California State U., Channel Islands	378	33	57	39	301	0	301	0	0	0
Pacific U.	379	878	962	120	299	10	268	0	21	0
Oberlin C.	380	616	485	483	298	0	157	0	141	0
U. of the Incarnate Word	380	602	418	226	298	0	238	0	60	0
Marshall U.	382	499	684	1,030	295	0	273	0	22	0
U. Wisconsin-Oshkosh	383	280 i	284 i	288 i	292	0	262	0	30	0
Sonoma State U.	384	ne	ne	203	289	0	268	0	0	21
Bowdoin C.	385	338	364	239	288	0	177	0	79	32
Lafayette C.	386	348	379	388	286	0	75	0	211	0
Central Washington U.	387	322	229	306	285	0	256	0	29	0
Pennsylvania State U., Behrend	388	98	151	44	282	0	61	204	17	0
Indiana U., South Bend	389	219	ne	ne	281	0	33	0	248	0
Connecticut C.	390	542	902	350	271	0	271	0	0	0
Loyola Marymount U.	391	266	423	233	269	0	218	0	51	0
Fort Hays State U.	392	ne	155	158	267	0	159	0	108	0
DePaul U.	393	243	229	305	258	0	47	0	211	0

TABLE 48

## Higher education R&amp;D expenditures in the physical sciences, ranked by all FY 2021 physical sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Framingham State U.	393	28	ne	247	258	0	258	0	0	0
CUNY, Baruch C.	395	293	375	297	256	0	0	0	256	0
Yeshiva U.	396	0	0	286	253	0	0	0	253	0
Dillard U.	397	797	606	975	252	0	0	47	205	0
Lewis and Clark C.	398	313	268	749	249	0	194	0	55	0
Keene State C.	399	ne	91	72	248	0	248	0	0	0
Grand Valley State U.	400	634	276	374	247	0	244	0	3	0
Southeastern Louisiana U.	400	304	106	326	247	0	140	0	107	0
Colby C.	402	512	397	391	245	0	180	0	65	0
C. Wooster	403	642	568	235	240	0	164	0	76	0
East Tennessee State U.	403	425	368	439	240	132	59	0	49	0
California State U., Sacramento	405	267	344	296	238	0	62	0	176	0
U. Houston-Clear Lake	406	676	520	403	236	0	27	0	0	209
CUNY, John Jay C. of Criminal Justice	407	329	222	507	235	0	165	0	0	70
Pace U.	408	349	199	138	226	0	226	0	0	0
U. of the Pacific	409	248	431	307	223	92	91	0	40	0
Drake U.	410	115	130	ne	221	0	0	0	221	0
Montana Technological U.	411	110	62	123	216	0	216	0	0	0
Texas A&M U.-Kingsville	412	83	196	164	213	0	180	0	33	0
Eastern Michigan U.	413	357	491	690	211	47	97	54	13	0
Azusa Pacific U.	414	332	179	205	207	0	129	0	78	0
Murray State U.	415	222	358	185	201	0	195	0	6	0
West Texas A&M U.	416	46	127	211	200	0	200	0	0	0
Florida Gulf Coast U.	417	0	138	397	197	0	197	0	0	0
Hamilton C.	418	238	198	208	193	0	73	0	40	80
CUNY, York C.	419	ne	883	568	192	0	61	0	131	0
Union C., Schenectady	420	309	609	268	185	20	150	0	6	9
Willamette U.	421	353	363	269	179	4	86	0	5	84
Vassar C.	422	773	172	250	178	0	57	0	121	0
Andrews U.	423	ne	184	196	174	174	0	0	0	0
Canisius C.	424	163	191	ne	173	0	0	0	0	173
Augusta U.	425	43	48	29	172	0	172	0	0	0
California State U., Chico	425	126	186	182	172	0	10	0	162	0

TABLE 48

## Higher education R&amp;D expenditures in the physical sciences, ranked by all FY 2021 physical sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Tuskegee U.	427	383	163	166	169	0	134	0	35	0
U. Michigan, Dearborn	427	107	217	135	169	0	0	0	0	169
U. of St. Thomas (MN)	429	234	360	235	168	0	126	0	42	0
Colorado C.	430	267	102	75	154	0	107	0	47	0
Texas A&M International U.	430	12	4	42	154	0	112	0	37	5
Hobart and William Smith Colleges	432	ne	263	175	152	0	31	0	116	5
U. Northern Colorado	433	236	110	122	149	43	82	0	24	0
Wheaton C., Wheaton	434	93	201	150	148	0	98	0	50	0
Fayetteville State U.	435	300	200	260	147	0	0	0	0	147
U. San Francisco	436	89	83	72	144	84	56	0	4	0
U. Ana G. Mendez, Gurabo	437	396	1,061	362	142	0	142	0	0	0
Hofstra U.	438	42	48	10	141	119	6	0	16	0
William Paterson U.	439	189	264	361	140	0	116	0	0	24
Saint Joseph's U.	440	284	508	194	137	0	105	0	32	0
SUNY, C. Plattsburgh	440	393	376	126	137	0	72	0	65	0
Claremont McKenna C.	442	40	144	144	136	21	56	0	59	0
Fairfield U.	443	95	442	153	134	0	52	0	63	19
Mercyhurst U.	443	ne	129	i 132	i 134	i 0	i 55	i 0	i 79	i 0
Eastern Kentucky U.	445	65	0	95	131	0	60	0	71	0
Clafin U.	446	600	508	258	129	0	104	0	25	0
U. Puerto Rico, Cayey	447	138	140	203	127	0	65	0	62	0
Doane U.	448	251	121	123	i 119	i 0	i 119	i 0	i 0	i 0
Lamar U.	449	158	188	80	115	0	66	0	49	0
Trinity C., Hartford	450	278	159	50	113	0	112	0	1	0
Manhattan C.	451	ne	55	71	112	0	112	0	0	0
U. Wisconsin-Green Bay	451	87	i 127	i 125	i 112	i 0	i 55	i 0	i 57	i 0
Pepperdine U.	453	109	88	56	111	0	101	0	10	0
Purdue U., Northwest	454	305	115	207	110	0	110	0	0	0
C. of Saint Benedict	455	179	i 176	i 167	i 108	i 0	i 75	i 1	i 32	i 0
Saint John's U.	455	141	i 139	i 132	i 108	i 0	i 76	i 0	i 32	i 0
U. Minnesota, Morris	455	ne	24	110	108	0	108	0	0	0
Black Hills State U.	458	414	407	116	103	0	0	0	94	9
SUNY, C. Brockport	458	4	48	74	103	26	66	0	11	0

TABLE 48

## Higher education R&amp;D expenditures in the physical sciences, ranked by all FY 2021 physical sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Albany State U.	460	137	150	54	102	0	102	0	0	0
U. of Mary Washington	461	143	48	62	100	0	68	0	32	0
Providence C.	462	175	93	390	99	25	74	0	0	0
Gallaudet U.	463	227	26	5	92	0	0	0	92	0
Purdue U., Fort Wayne	463	61	101	126	92	0	82	0	10	0
Humboldt State U.	465	127	201	193	90	0	64	12	14	0
Indiana State U.	466	168	155	160	89	0	33	0	56	0
Coastal Carolina U.	467	0	0	0	88	0	20	0	68	0
Marymount U.	467	ne	ne	ne	88	0	0	0	88	0
Seattle U.	469	208	157	165	86	0	2	0	84	0
U. Guam	469	0	0	0	86	86	0	0	0	0
Biola U.	471	78 i	82 i	85 i	85 i	0 i	33 i	0 i	52 i	0 i
California State U., Stanislaus	472	17	25	17	84	0	72	0	12	0
U. Wisconsin-River Falls	472	378	ne	330	84	0	48	0	36	0
St. Olaf C.	474	254	139	106	82	0	78	0	4	0
U. Wisconsin-Platteville	474	ne	99 i	101 i	82 i	0 i	43 i	0 i	39 i	0 i
Kettering U.	476	503	211	648	77	0	53	0	24	0
Citadel Military C. South Carolina	477	ne	ne	119	76	0	52	0	24	0
Fort Valley State U.	477	88	104	72	76	0	76	0	0	0
U. Nebraska, Omaha	477	223	169	62	76	0	3	0	73	0
Central Connecticut State U.	480	ne	118	82	73	0	66	0	7	0
Florida Polytechnic U.	481	ne	68	76	71	0	42	0	29	0
Suffolk U.	482	ne	ne	100	70	0	69	0	1	0
Western Illinois U.	483	12	57	78	68	0	52	0	16	0
Central State U.	484	83	63	6	67	0	16	0	51	0
U. Alaska, Southeast	484	0	0	55	67	67	0	0	0	0
U. Hawaii, Hilo	486	479	164	217	66	0	32	0	34	0
Sacred Heart U.	487	ne	ne	ne	64	64	0	0	0	0
Eastern Washington U.	488	212	152	66	63	0	0	0	63	0
U. Wisconsin-Stevens Point	489	79 i	92 i	105	61	0	45	0	16	0
Elon U.	490	146	89	83	59	0	38	0	21	0
Dakota State U.	491	13	5	0	58	0	0	0	58	0
California State U., Monterey Bay	492	0	65	0	57	0	57	0	0	0



TABLE 48

## Higher education R&amp;D expenditures in the physical sciences, ranked by all FY 2021 physical sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Lawrence Technological U.	493	56	9	6	55	0	1	0	54	0
Austin Peay State U.	494	309	232	15	50	0	0	0	50	0
U. Texas, Tyler	495	33	44	33	46	0	46	0	0	0
U. Baltimore	496	62	72	67	45	0	0	0	0	45
Western Carolina U.	496	196	342	253	45	0	45	0	0	0
Monmouth U.	498	ne	18	19	44	0	29	0	15	0
Niagara U.	499	145	78	54	42	0	42	0	0	0
Rutgers, State U. New Jersey, Camden	500	19	80	354	41	0	39	0	2	0
Saginaw Valley State U.	501	52	300	35	36	i	36	i	0	i
Northeastern Illinois U.	502	88	84	66	34	0	0	0	0	34
Savannah State U.	502	63	63	50	34	0	34	0	0	0
U. Texas of the Permian Basin	504	103	ne	24	30	0	0	0	0	30
Minnesota State U., Mankato	505	121	127	52	29	9	17	0	3	0
Stephen F. Austin State U.	505	94	85	36	29	0	28	0	1	0
Langston U.	507	40	i	37	109	28	0	0	0	28
Pittsburg State U.	508	21	30	22	24	0	24	0	0	0
U. Tennessee, Chattanooga	509	10	35	52	22	0	22	0	0	0
U. Illinois, Springfield	510	0	12	14	20	0	20	0	0	0
U. Virginia's C. Wise	510	ne	ne	ne	20	0	18	0	0	2
U. New England	512	27	23	26	19	0	17	0	0	2
Kean U.	513	ne	ne	39	18	0	0	0	0	18
Milwaukee School of Engineering	514	49	69	85	17	0	0	0	17	0
U. Louisiana, Monroe	514	50	75	55	17	0	17	0	0	0
U. Southern Maine	514	36	15	0	17	0	17	0	0	0
St. Cloud State U.	517	23	12	15	13	0	4	0	9	0
U. Michigan, Flint	518	53	40	29	12	0	6	0	6	0
Dordt U.	519	ne	ne	ne	11	0	0	0	11	0
Northern Michigan U.	520	26	24	35	10	0	7	0	3	0
U. South Carolina, Aiken	521	108	0	51	9	0	6	0	3	0
Colorado State U., Pueblo	522	ne	6	18	8	0	8	0	0	0
Texas Woman's U.	523	145	155	204	7	0	0	0	0	7
U. Detroit Mercy	524	11	13	5	6	0	6	0	0	0
Alfred U.	525	11	13	7	5	5	0	0	0	0

TABLE 48

**Higher education R&D expenditures in the physical sciences, ranked by all FY 2021 physical sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Eastern Connecticut State U.	525	58	10	0	5	0	4	0	0	1
Morehead State U.	525	7	0	0	5	0	0	5	0	0
New York Institute of Technology	528	174	0	0	3	0	0	0	3	0
Roger Williams U.	529	331	154	101	2	0	2	0	0	0
U. North Georgia	529	71	68	91	2	2	0	0	0	0
La Sierra U.	531	38	1	1	1	0	0	0	1	0
All other surveyed institutions	-	119,340	9,190	5,425	0	0	0	0	0	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

nec = not elsewhere classified.

<sup>a</sup> Johns Hopkins University includes the Applied Physics Laboratory (APL), with \$301,358 thousand imputed for total R&D expenditures in physical sciences in FY 2021. Total expenditures by field for Johns Hopkins University are flagged as imputed because APL was unable to distribute a portion of institutionally funded R&D by field.

<sup>b</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

<sup>c</sup> The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

<sup>d</sup> The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

<sup>e</sup> The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

**Note(s):**

Institutions reporting zero expenditures in ranked total for FY 2021 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 49

**Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2021 physical sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
All institutions	-	3,472,575	3,691,480	3,790,522	3,852,415	509,733	1,239,825	174,331	1,767,740	160,786
Johns Hopkins U. <sup>a</sup>	1	229,887	306,572	372,067	321,641	59,051	22,938	4,438	215,073	20,141
California Institute of Technology	2	155,495	156,658	178,896	160,456	43,935	22,573	15,763	78,185	0
Michigan State U.	3	111,792	95,267	100,092	122,143	64	8,166	0	113,913	0
Massachusetts Institute of Technology	4	96,347	94,635	105,097	114,108	29,713	22,959	2,718	45,000	13,718
U. Colorado Boulder	5	78,424	99,527	106,414	111,234	33,677	7,132	0	64,351	6,074
Cornell U.	6	86,823	95,625	96,374	93,608	6,746	19,666	1,459	43,263	22,474
U. Rochester	7	88,080	106,520	94,572	92,680	0	4,519	0	88,161	0
U. California, Berkeley	8	81,410	86,349	84,023	90,707	46,314	21,494	0	18,480	4,419
U. Maryland <sup>b</sup>	9	na	82,395	81,584	83,425	36,372	6,858	1,665	31,173	7,357
U. Arizona	10	68,086	74,823	77,135	73,148	58,968	7,395	1,100	5,685	0
Stanford U.	11	63,318	71,817	68,199	72,190	2,951	25,419	7,789	32,299	3,732
U. Wisconsin-Madison	12	51,870	52,807	58,512	60,580	1,892	22,131	0	18,846	17,711
U. Texas, Austin	13	48,196	53,535	56,570	59,786	6,253	7,913	30,667	14,953	0
Harvard U.	14	52,414	53,614	55,363	59,262	5,025	22,149	0	31,258	830
Princeton U.	15	53,677	54,879	60,336	56,283	19,005	13,984	0	23,204	90
U. California, San Diego	16	43,134	47,019	49,002	54,485	5	21,719	0	32,711	50
Pennsylvania State U., University Park and Hershey Medical Center	17	53,057	56,943	54,776	53,869	9,125	13,617	13,654	17,473	0
U. Washington, Seattle	18	45,871	49,064	52,913	52,053	8,422	21,211	1,199	17,655	3,566
U. Illinois, Urbana-Champaign	19	47,691	48,539	49,164	49,944	6,624	20,905	0	22,415	0
Northwestern U.	20	48,305	49,120	46,669	49,661	1,705	25,004	12,128	8,746	2,078
U. Chicago	21	42,683	43,322	43,904	47,425	7,997	20,993	4,861	13,574	0
Columbia U. in the City of New York	22	27,308	29,085	31,519	40,994	7,577	14,024	4,290	15,103	0
U. Pennsylvania	23	36,065	38,518	38,206	39,630	0	15,115	9,947	14,568	0
U. Michigan, Ann Arbor	24	36,588	37,944	35,572	38,670	3,308	19,179	0	16,183	0
U. California, San Francisco	25	35,467	38,491	41,413	37,312	0	37,311	0	1	0
Florida State U.	26	38,693	35,376	42,211	37,224	593	11,182	2,984	22,154	311
U. California, Los Angeles	27	36,558	39,856	37,430	36,246	0	16,178	0	20,068	0
U. California, Santa Barbara	28	32,011	38,560	36,695	34,841	2,565	6,502	9,572	16,106	96
SUNY, Stony Brook U.	29	28,239	32,009	30,902	33,285	2,491	10,030	0	20,764	0
U. Minnesota, Twin Cities	30	29,565	33,493	32,576	32,702	1,447	15,439	0	15,816	0
Ohio State U.	31	31,707	35,564	44,079	30,584	2,324	12,211	46	16,003	0

TABLE 49

**Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2021 physical sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
U. Notre Dame	32	26,977	29,077	28,853	29,976	0	19,720	0	10,256	0
Yale U.	33	35,815	33,736	28,840	29,641	1,182	12,340	0	16,119	0
U. Iowa	34	22,483	21,267	18,913	28,692	246	4,065	0	24,381	0
U. North Carolina, Chapel Hill	35	23,430	24,236	27,083	25,924	410	16,230	0	7,344	1,940
U. California, Irvine	36	24,213	27,916	26,725	24,451	0	12,676	0	11,775	0
Purdue U., West Lafayette	37	19,253	20,328	21,579	24,204	0	14,122	0	10,082	0
Boston U.	38	19,197	19,469	20,726	23,002	1,426	11,004	0	10,572	0
Texas A&M U., College Station and Health Science Center	39	18,933	21,954	21,208	22,946	1,315	8,988	1,681	10,514	448
Georgia Institute of Technology	40	23,459	25,844	22,417	22,213	0	15,425	0	6,788	0
U. Delaware	41	19,454	21,923	19,931	21,099	877	7,732	8,914	3,576	0
U. Central Florida	42	18,490	18,300	18,837	20,915	0	1,645	0	19,270	0
Iowa State U.	43	26,683	25,466	17,815	20,463	0	9,139	0	11,324	0
U. Virginia, Charlottesville	44	17,616	17,967	19,333	20,408	2,765	8,676	0	8,967	0
Washington U., Saint Louis	45	16,350	18,746	18,393	20,017	0	8,809	5,953	5,255	0
Duke U.	46	16,332	18,436	19,178	19,826	0	10,066	0	9,760	0
New York U.	47	17,870	19,720	18,606	19,664	0	12,181	0	7,483	0
U. Utah	48	15,844	31,461	19,006	19,543	0	12,874	1,288	5,381	0
Indiana U., Bloomington	49	19,047	20,230	21,233	19,340	453	10,812	0	8,075	0
Catholic U. of America	50	16,408	16,992	17,261	18,569	0	84	0	13,555	4,930
Emory U.	51	14,297	15,695	15,380	18,181	0	15,197	0	2,984	0
U. Florida	52	14,100	15,416	16,445	17,471	681	7,415	0	9,375	0
U. Maryland, Baltimore County	53	11,959	14,774	17,092	17,339	12,915	1,723	131	2,570	0
Rice U.	54	15,712	17,279	16,313	17,271	1,996	7,002	0	8,273	0
U. California, Davis	55	14,930	17,554	17,230	17,078	0	9,954	0	6,595	529
Washington State U.	56	16,798	18,436	14,813	16,946	124	7,937	320	8,560	5
Montana State U., Bozeman	57	9,333	9,841	10,794	16,551	0	9,290	0	7,261	0
U. Hawaii, Manoa	58	15,075	17,498	19,021	16,519	10,763	1,204	0	3,763	789
U. Pittsburgh, Pittsburgh	59	17,541	18,857	17,786	16,509	806	9,776	0	5,927	0
U. California, Santa Cruz	60	12,442	15,755	17,723	16,115	3,893	7,556	0	4,666	0
Northeastern U.	61	12,632	12,859	13,194	16,081	0	6,872	0	9,014	195
Vanderbilt U. and Vanderbilt U. Medical Center	62	14,724	14,537	15,195	15,636	0	9,126	0	6,510	0
U. Nebraska, Lincoln	63	17,422	18,047	15,583	15,445	0	6,867	0	8,578	0
U. Massachusetts, Amherst	64	14,703	16,405	18,261	15,054	3,152	6,635	0	5,267	0

TABLE 49

**Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2021 physical sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
North Carolina State U.	65	14,391	13,392	13,657	15,032	0	7,120	0	7,912	0
U. California, Riverside	66	13,554	12,908	14,276	14,667	0	8,133	0	6,534	0
New Mexico State U.	67	19,047	18,114	18,373	14,524	4,072	612	0	1,322	8,518
Florida International U.	68	8,984	9,893	11,642	14,476	0	12,085	0	2,345	46
Arizona State U.	69	11,911	11,735	12,385	14,065	0	5,232	0	8,833	0
Virginia Polytechnic Institute and State U.	70	10,816	14,250	13,854	13,944	97	8,643	0	5,196	8
Louisiana State U., Baton Rouge	71	12,376	12,967	13,295	13,940	0	5,423	0	8,305	212
U. Southern California	72	11,958	12,667	13,605	13,175	0	6,787	1,327	5,061	0
Rutgers, State U. New Jersey, New Brunswick	73	18,582	17,535	12,991	13,160	1,058	3,276	1,956	6,736	134
U. Illinois, Chicago	74	8,196	9,941	10,533	12,875	0	6,060	0	6,815	0
U. Kansas	75	6,763	7,110	6,488	12,448	735	9,348	0	2,365	0
Wayne State U.	76	9,469	11,130	9,101	12,051	0	8,355	0	3,071	625
U. Tennessee, Knoxville <sup>c</sup>	77	15,120	16,674	12,121	11,804	0	2,699	0	9,105	0
U. Southern Mississippi	78	8,639	9,357	8,527	11,564	223	11,026	0	0	315
Brown U.	79	12,878	14,103	11,133	11,410	0	3,552	0	5,221	2,637
Carnegie Mellon U.	80	9,606	10,233	11,165	11,139	0	3,985	592	6,000	562
U. Alaska, Fairbanks	81	8,928	9,634	9,919	11,116	11,024	87	0	0	5
U. Massachusetts, Lowell	82	7,204	8,207	11,202	11,048	0	1,387	0	9,661	0
U. Alabama, Huntsville	83	10,570	9,213	9,595	10,716	9,304	219	0	1,172	21
Temple U.	84	11,036	11,881	10,820	10,707	0	5,501	0	3,387	1,819
Colorado State U., Fort Collins	85	9,920	10,106	7,884	10,355	0	6,716	731	2,460	448
Georgia State U.	86	11,050	11,524	13,754	10,035	1,753	5,193	0	2,893	196
Colorado School of Mines	87	7,698	7,404	9,353	9,963	47	3,022	1,626	4,957	311
Brandeis U.	88	7,389	7,777	7,218	9,885	0	5,363	0	4,522	0
U. Oregon	89	8,467	8,572	9,034	9,747	0	4,686	120	2,937	2,004
U. Texas, Dallas	90	6,186	7,812	9,295	9,314	3,479	3,247	0	2,588	0
Dartmouth C. and Dartmouth Hitchcock Medical Center	91	5,824	6,303	7,751	9,181	0	3,880	0	5,301	0
Kansas State U.	92	9,103	9,827	8,746	9,082	0	2,466	0	6,616	0
West Virginia U.	93	9,185	9,683	8,805	8,900	2,178	2,965	0	3,757	0
U. Texas, Arlington	94	7,156	7,459	8,422	8,778	0	2,204	0	6,574	0
U. Oklahoma, Norman and Health Science Center	95	10,937	12,491	11,446	8,751	0	5,844	0	2,907	0
Boston C.	96	6,275	7,406	7,098	8,597	0	6,600	0	1,997	0
Rochester Institute of Technology	97	7,630	8,077	7,787	8,426	0	246	0	2,165	6,015

TABLE 49

**Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2021 physical sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Xavier U. Louisiana	98	6,697	5,797	7,077	8,325	0	8,325	0	0	0
Georgetown U.	99	4,582	5,133	7,424	8,304	0	2,185	0	6,119	0
Tufts U.	100	43,589	2,102	6,118	8,268	0	6,470	0	1,798	0
U. Texas M. D. Anderson Cancer Center	101	6,607	7,922	8,114	8,179	0	0	0	8,179	0
New Jersey Institute of Technology	102	6,750	8,044	8,354	8,145	5,669	836	0	1,640	0
SUNY, U. Buffalo	103	8,747	7,714	7,195	8,075	0	5,756	0	2,319	0
Syracuse U.	104	7,255	9,127	7,140	8,073	0	2,036	0	6,037	0
Air Force Institute of Technology	105	4,241	4,457	4,973	8,037	0	0	0	8,037	0
U. Wisconsin-Milwaukee	106	10,604	7,884	5,010	7,800	5,318	497	0	1,985	0
U. Mississippi	107	7,140	9,706	7,993	7,712	0	2,022	0	5,690	0
U. Toledo	108	4,629	4,915	5,136	7,627	569	2,290	0	4,768	0
Jackson State U.	109	8,265	8,463	9,305	7,625	0	6,614	0	1,011	0
Case Western Reserve U.	110	4,669	8,213	7,203	7,538	213	2,191	3,658	1,476	0
U. Connecticut	111	6,968	6,696	8,124	7,346	0	3,316	0	4,030	0
CUNY, City C.	112	7,611	6,681	7,007	7,213	0	3,808	0	3,228	177
U. Kentucky	113	4,929	6,607	6,785	7,061	0	4,627	0	2,434	0
North Dakota State U.	114	3,369	3,546	2,853	6,937	0	2,245	4,178	514	0
U. Houston	115	5,978	6,147	6,336	6,931	85	3,476	308	2,809	253
U. Missouri, Columbia	116	12,176	6,686	7,654	6,710	0	4,640	0	2,070	0
California State U., Northridge	117	2,579	3,063	4,750	6,665	225	274	0	1,508	4,658
Auburn U., Auburn	118	4,937	6,107	6,866	6,649	19	1,645	360	4,549	76
U. Montana, Missoula	119	5,513	5,718	5,428	6,313	0	1,655	0	117	4,541
U. New Mexico	120	7,889	6,320	7,146	6,179	766	1,882	0	3,524	7
Clemson U.	121	6,044	6,692	6,157	6,037	0	1,749	0	4,288	0
Naval Postgraduate School	122	4,641	7,594	8,513	5,658	82	422	288	3,899	967
SUNY, Binghamton U.	123	5,684	6,111	7,642	5,541	0	3,922	0	1,619	0
U. Texas, San Antonio	124	3,733	4,195	4,702	5,338	0	2,248	0	3,090	0
Boise State U.	125	2,909	2,420	2,678	4,976	197	440	4,260	79	0
U. Georgia	126	4,403	6,362	4,815	4,936	311	4,109	0	516	0
U. Alabama, Tuscaloosa	127	5,116	4,785	4,720	4,913	133	2,222	0	2,558	0
U. Nevada, Reno	128	5,225	4,815	4,702	4,912	31	2,370	14	2,399	98
George Washington U.	129	4,819	5,610	5,366	4,872	0	1,974	0	2,898	0
CUNY, Hunter C.	130	3,122	3,024	3,552	4,840	44	3,842	0	954	0

TABLE 49

**Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2021 physical sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
U. South Florida <sup>d</sup>	131	6,653	5,648	5,306	4,803	0	2,365	0	1,867	571
Howard U.	132	3,519	4,548	4,381	4,733	0	4,150	0	583	0
CUNY, Advanced Science Research Center	133	525	2,115	3,018	4,719	0	1,160	0	3,559	0
U. Texas, El Paso	134	4,757	4,384	4,257	4,537	0	2,978	0	1,559	0
U. Cincinnati	135	4,842	4,724	4,041	4,501	0	2,173	0	2,328	0
U. Miami	136	4,644	4,645	4,172	4,482	0	1,129	0	3,353	0
Old Dominion U.	137	5,402	5,260	4,601	4,475	0	1,123	0	3,352	0
Oregon State U.	138	3,615	4,888	4,523	4,453	16	2,444	401	1,554	38
Brigham Young U., Provo	139	4,365	4,833	4,133	4,414	0	2,487	0	1,927	0
U. Arkansas, Fayetteville	140	4,009	4,313	4,452	4,371	0	2,301	0	2,070	0
U. Alabama, Birmingham	141	6,064	4,929	3,934	4,292	0	1,082	1,117	2,093	0
U. Nevada, Las Vegas	142	6,515	4,521	4,073	4,170	160	2,582	0	1,428	0
Ohio U.	143	2,570	2,605	3,467	4,143	0	1,073	0	3,070	0
William & Mary	144	4,192	4,249	4,428	4,140	0	366	0	3,774	0
U. Puerto Rico, Rio Piedras	145	2,714	3,804	3,427	4,104	0	2,650	0	1,454	0
California State U., Los Angeles	146	4,506	4,917	4,255	4,085	0	3,691	0	394	0
Texas Tech U.	147	3,838	4,426	4,217	4,067	0	2,622	304	1,141	0
Rensselaer Polytechnic Institute	148	5,774	4,304	4,184	4,033	0	2,793	0	1,240	0
U. Akron	149	3,213	3,992	4,238	4,026	0	4,026	0	0	0
Northern Arizona U.	150	2,490	2,688	3,147	3,885	2,960	270	187	373	95
Kent State U.	151	3,249	3,062	3,715	3,843	43	1,102	1,090	1,282	326
Northern Illinois U.	152	3,785	4,280	3,713	3,668	0	1,208	0	2,460	0
SUNY, U. Albany	153	2,983	3,545	3,917	3,663	0	3,054	0	609	0
Rockefeller U.	154	3,856	2,637	2,882	3,581	0	3,233	0	348	0
George Mason U.	155	4,515	4,738	4,656	3,561	1,424	447	1,077	466	147
Southern Methodist U.	156	2,790	2,499	2,855	3,420	0	1,154	0	2,266	0
Hampton U.	157	4,129	4,044	3,142	3,409	0	0	0	3,409	0
Utah State U.	158	3,175	4,133	3,982	3,395	0	1,974	0	1,421	0
U. Louisiana, Lafayette	159	273	336	208	3,392	103	82	1,196	2,011	0
American U.	160	2,506	2,922	3,401	3,136	0	160	0	2,976	0
Tulane U.	161	3,449	3,533	3,343	3,041	0	1,293	0	1,748	0
North Carolina Central U.	162	3,447	2,729	2,888	2,990	0	634	0	2,356	0
San Diego State U.	163	3,166	3,377	2,992	2,931	200	2,214	0	517	0

TABLE 49

**Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2021 physical sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Illinois Institute of Technology	164	3,492	3,253	2,734	2,909	0	257	39	2,613	0
U. California, Merced	165	3,952	4,304	4,891	2,865	0	1,588	0	871	406
Texas State U.	166	2,675	2,235	1,798	2,774	0	1,647	0	1,127	0
U. North Carolina, Greensboro	167	2,895	3,019	2,612	2,761	0	1,647	0	0	1,114
U. North Texas, Denton	168	2,431	2,588	2,329	2,696	0	1,596	1	1,099	0
Baylor U.	169	2,006	2,033	2,110	2,661	24	1,464	15	1,158	0
Missouri U. of Science and Technology	170	2,963	2,082	4,591	2,652	0	1,769	0	883	0
Oklahoma State U., Stillwater	171	2,238	3,135	2,870	2,640	0	1,179	0	1,461	0
Miami U.	172	607	167	408	2,638	0	2,543	0	95	0
Marquette U.	173	1,486	1,305	1,649	2,614	0	2,323	0	291	0
U. North Carolina, Charlotte	174	2,320	2,977	2,878	2,577	0	1,267	0	1,310	0
California State U., Long Beach	175	3,830	4,062	2,502	2,574	515	2,059	0	0	0
Lehigh U.	176	3,233	2,157	2,166	2,534	0	1,432	0	1,102	0
U. Denver	177	2,985	2,869	3,373	2,532	100	1,834	0	598	0
Embry-Riddle Aeronautical U.	178	1,320	1,623	1,859	2,482	0	0	0	873	1,609
Florida Institute of Technology	179	1,362	1,268	2,109	2,448	254	204	0	1,887	103
U. Massachusetts, Boston	180	1,237	1,745	2,239	2,420	0	1,796	0	624	0
Mississippi State U.	181	4,459	3,630	2,267	2,399	0	1,175	202	1,022	0
U. New Hampshire	182	2,857	1,859	3,335	2,355	0	655	239	1,461	0
U.S. Air Force Academy	183	295	2,933	2,714	2,348	0	552	0	1,796	0
Virginia Commonwealth U.	183	2,364	2,425	2,194	2,348	0	1,356	0	992	0
U. Maine	185	1,980	2,654	1,868	2,289	0	128	0	2,161	0
Haverford C.	186	1,047	1,862	2,259	2,216	340	273	1,552	51	0
U. Rhode Island	187	2,504	2,269	2,579	2,203	0	1,344	0	20	839
Worcester Polytechnic Institute	188	2,140	2,006	1,603	2,171	0	1,035	0	1,136	0
San Jose State U.	189	1,415	1,765	2,035	2,129	0	1,303	0	822	4
Oakland U.	190	1,510	1,679	1,852	2,062	0	854	0	1,208	0
U. Vermont	191	1,683	1,925	2,710	2,061	0	1,445	0	616	0
Rutgers, State U. New Jersey, Newark	192	1,674	1,444	1,436	2,020	0	1,704	0	316	0
CUNY, Lehman C.	193	2,181	1,495	2,021	1,964	0	1,551	0	413	0
Indiana U.-Purdue U., Indianapolis	194	1,240	1,186	1,374	1,871	0	1,385	0	486	0
Delaware State U.	195	2,587	1,615	1,595	1,833	0	276	9	1,003	545
Morehouse C.	196	2,740	1,704	1,517	1,831	0	298	0	146	1,387



TABLE 49

**Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2021 physical sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Central Michigan U.	197	1,702	2,318	2,044	1,814	187	0	0	1,627	0
California State U., San Bernardino	198	1,260	1,153	1,448	1,809	0	1,579	168	62	0
Middle Tennessee State U.	199	271	142	412	1,769	43	1,670	0	56	0
U. South Dakota	200	1,004	2,205	1,968	1,754	0	726	0	1,028	0
U. Wyoming	201	2,560	1,750	1,206	1,748	166	614	0	511	457
California State U., East Bay	202	ne	ne	444	1,574	0	830	0	744	0
U. Colorado Denver <sup>e</sup>	203	na	na	na	1,561	0	1,144	0	417	0
Fisk U.	204	197	0	212	1,525	0	158	463	904	0
South Dakota School of Mines and Technology	205	1,542	1,583	1,384	1,504	0	639	0	865	0
Stevens Institute of Technology	206	1,348	1,960	1,648	1,500	0	258	0	1,242	0
U.S. Naval Academy	207	1,948	2,654	2,096	1,499	0	602	0	897	0
CUNY, Queens C.	208	1,094	1,141	1,041	1,475	0	1,197	0	278	0
Wake Forest U.	209	1,667	1,741	1,499	1,470	0	534	0	936	0
U. South Carolina, Columbia	210	3,554	3,103	2,264	1,467	0	0	0	1,467	0
Portland State U.	211	2,189	2,356	1,937	1,462	0	1,145	14	303	0
South Dakota State U.	212	1,153	1,266	1,058	1,448	0	1,365	0	83	0
Drexel U.	213	2,362	1,611	1,582	1,429	0	310	0	1,119	0
Wesleyan U.	213	1,960	1,784	1,540	1,429	307	525	0	597	0
Villanova U.	215	951	1,141	1,658	1,412	599	540	0	273	0
Clark Atlanta U.	216	960	1,135	1,422	1,407	0	951	0	456	0
U. Louisville	217	1,034	1,827	1,446	1,406	63	1,049	169	81	44
Rowan U.	218	483	887	407	1,404	0	613	0	695	96
Bowling Green State U.	219	1,222	1,238	1,331	1,402	0	753	0	649	0
East Carolina U.	220	633	821	1,135	1,387	0	986	0	401	0
Florida A&M U.	221	5,882	3,358	1,366	1,344	0	23	0	1,321	0
Western Washington U.	222	734	820	989	1,321	265	846	210	0	0
U. Memphis	223	895	1,039	1,100	1,309	104	733	0	341	131
CUNY, Brooklyn C.	224	1,077	812	845	1,297	0	1,120	0	177	0
Hope C.	225	607	824	648	1,276	0	752	0	524	0
Wright State U.	226	1,898	1,362	1,369	1,268	0	153	0	847	268
Michigan Technological U.	227	701	728	1,282	1,248	0	695	0	553	0
Barnard C.	228	516	928	805	1,246	814	432	0	0	0
Saint Louis U.	229	919	944	1,302	1,237	0	1,226	0	11	0

TABLE 49

**Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2021 physical sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
San Francisco State U.	230	1,250	1,223	1,206	i 1,218	69	409	242	498	0
California State U., Fresno	231	797	823	868	1,192	0	1,014	0	178	0
U. New Orleans	232	1,124	1,052	782	1,171	0	702	0	469	0
New Mexico Institute of Mining and Technology	233	1,442	1,928	1,348	1,139	0	167	0	972	0
Florida Atlantic U.	234	1,494	1,253	1,317	1,135	37	694	0	404	0
North Carolina Agricultural and Technical State U.	235	1,317	1,517	1,163	1,125	0	248	0	877	0
California State Polytechnic U., Pomona	236	1,388	673	1,393	1,105	905	160	0	40	0
U. Missouri, Kansas City	237	1,340	1,407	1,102	1,104	128	236	0	667	73
Troy U.	238	ne	ne	1,216	1,094	0	0	1,094	0	0
U. Texas Rio Grande Valley	239	1,847	1,865	2,215	1,083	337	63	0	683	0
Southern Illinois U., Carbondale	240	1,707	1,020	1,270	1,081	0	824	0	257	0
U. of the Virgin Islands	241	0	0	908	1,069	0	80	0	989	0
California State U., San Marcos	242	1,106	901	1,667	1,060	0	33	0	336	691
California State U., Fullerton	243	1,133	897	1,003	1,058	702	6	34	316	0
Texas Southern U.	244	139	179	1,069	1,036	0	801	0	95	140
Idaho State U.	245	2,776	2,191	889	1,034	0	628	3	403	0
St. Edward's U.	246	445	400	994	1,021	119	850	0	52	0
U. West Florida	247	380	373	1,049	1,014	0	392	0	0	622
U. Alaska, Anchorage	248	17	16	154	1,010	80	898	0	32	0
U. Missouri, Saint Louis	249	1,615	1,896	1,229	1,007	28	951	0	28	0
South Carolina State U.	250	1,621	i 930	965	i 1,000	i 180	i 0	i 0	i 189	i 631
Chapman U.	251	699	824	1,655	936	0	157	0	86	693
California Polytechnic State U., San Luis Obispo	252	824	1,124	1,202	932	0	274	0	658	0
Illinois State U.	253	513	690	511	923	0	709	0	214	0
James Madison U.	254	320	653	531	919	20	397	0	266	236
U. Puerto Rico, Humacao	255	647	494	922	899	0	71	583	245	0
U. Arkansas, Pine Bluff	256	315	352	418	895	0	895	0	0	0
U. Northern Iowa	257	498	1,016	796	894	0	777	0	117	0
SUNY, Geneseo	258	592	663	624	888	0	256	0	632	0
Creighton U.	259	609	i 878	i 806	i 881	i 0	i 310	i 0	i 571	i 0
Winston-Salem State U.	260	255	320	496	871	0	590	0	0	281
Wichita State U.	261	434	851	912	853	0	593	0	0	260
C. Charleston	262	640	787	573	847	188	26	515	118	0

TABLE 49

## Federally financed higher education R&amp;D expenditures in the physical sciences, ranked by all FY 2021 physical sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Western Michigan U. and Homer Stryker M.D. School of Medicine	263	803	723	844	838	0	396	0	442	0
Texas A&M U.-Commerce	264	858	667	746	834	0	156	0	678	0
U. Idaho	265	1,153	1,249	771	831	532	127	12	160	0
U. Dayton	266	1,304	1,175	849	820	0	108	205	507	0
Texas A&M U.-Corpus Christi	267	198	1,062	1,250	808	0	59	0	0	749
Prairie View A&M U.	268	411	407	489	807	0	622	0	185	0
Fort Lewis C.	269	ne	0	435	786	0	345	441	0	0
Norfolk State U.	270	800	819	726	763	0	31	0	732	0
Morgan State U.	271	116	30	393	759	0	385	0	374	0
Clark U.	272	319	384	747	717	0	74	0	643	0
Western Kentucky U.	272	911	1,013	1,072	717	0	401	0	316	0
Loyola U., Chicago	274	726	913	610	716	0	570	0	146	0
Abilene Christian U.	275	ne	ne	ne	712	0	0	0	712	0
U. North Dakota	276	638	977	739	703	0	672	0	31	0
U. Puerto Rico, Mayaguez	277	1,136	832	904	687	0	394	0	293	0
U. Central Oklahoma	278	606	657	651	683	0	146	0	537	0
U. Washington, Bothell	279	0	215	156	681	0	0	0	681	0
Tennessee Technological U.	280	1,092	1,042	914	672	0	270	0	402	0
U. San Diego	281	575	928	837	658	0	256	0	402	0
Swarthmore C.	282	642	550	366	655	162	331	0	162	0
Middlebury C.	283	376	410	388	644	151	201	0	276	16
U. Wisconsin-Eau Claire	284	436	504	456	641	19	500	122	0	0
Bucknell U.	285	108	247	604	592	215	292	0	85	0
U. Arkansas, Little Rock	286	603	616	828	590	0	590	0	0	0
Trinity U.	287	708	495	604	586	0	471	0	115	0
Georgia Southern U.	288	173	164	607	580	25	523	0	32	0
New Mexico Highlands U.	289	675	ne	541	568	0	568	0	0	0
Skidmore C.	290	128	150	250	557	0	523	0	34	0
Christopher Newport U.	291	353	534	571	546	0	20	0	526	0
Arkansas State U., Jonesboro	292	440	787	753	537	0	523	0	14	0
Furman U.	293	527	558	358	523	0	522	0	1	0
Spelman C.	293	620	595	713	523	0	523	0	0	0

TABLE 49

## Federally financed higher education R&amp;D expenditures in the physical sciences, ranked by all FY 2021 physical sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Occidental C.	295	274	177	340	522	0	458	0	64	0
CUNY, Graduate Center	296	0	330	435	518	0	0	0	518	0
U. South Alabama	297	239	355	363	499	0	464	0	35	0
U. Massachusetts, Dartmouth	298	197	216	275	485	0	444	0	41	0
Alabama A&M U.	299	997 i	705 i	481 i	478 i	0 i	216 i	0 i	262 i	0 i
CUNY, C. Staten Island	299	1,073 i	1,310	770	478	0	239	0	239	0
Amherst C.	301	716	1,124	892	476	7	35	0	434	0
Montclair State U.	302	242	121	263	466	29	437	0	0	0
Augustana U.	303	375	301	ne	457	0	159	0	298	0
Santa Clara U.	304	736	394	445	454	0	310	0	144	0
Ball State U.	305	361	578	315	449	0	428	0	21	0
U. North Carolina, Asheville	306	273	418	687	443	13	33	0	0	397
Bowie State U.	307	293	246	272	438	0	389	0	0	49
Grambling State U.	308	518	476	356	436	0	386	0	50	0
Mount Holyoke C.	309	1,164	894	471	434	74	18	0	342	0
Kennesaw State U.	310	366	721	558	427	0	267	0	160	0
Duquesne U.	311	776	725	664	426	0	392	0	34	0
Clarkson U.	312	539	652	767	422	0	283	0	139	0
U. of the Sciences Philadelphia	313	268	498	318	420	0	420	0	0	0
U. North Carolina, Wilmington	314	406	512	336	419	0	110	0	118	191
Franklin and Marshall C.	315	737	279	350	415	27	292	0	96	0
Northern Kentucky U.	316	284	448	514	401	15	353	0	33	0
Seton Hall U.	317	0	0	401	396	0	396	0	0	0
Calvin U.	318	474	388	372 i	395 i	0 i	270 i	0 i	125 i	0 i
Louisiana Tech U.	319	696	403	323	378	0	146	0	232	0
U. Central Arkansas	320	521	576	490	375	0	184	0	176	15
Tougaloo C.	321	848	849	361	359 i	0 i	278 i	0 i	81 i	0 i
U. North Florida	322	240	348	374	352	0	252	0	100	0
C. New Jersey	323	302	ne	354	351	0	118	0	233	0
U. Colorado Anschutz Medical Campus <sup>e</sup>	324	na	na	na	344	0	0	0	344	0
U.S. Military Academy	325	120	35	814	338	0	150	44	144	0
U. Minnesota, Duluth	326	442	498	303	337	0	162	0	175	0
Macalester C.	327	267	322	149	335	0	163	0	172	0

TABLE 49

## Federally financed higher education R&amp;D expenditures in the physical sciences, ranked by all FY 2021 physical sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Smith C.	328	334	389	264	334	25	97	0	212	0
Southern Connecticut State U.	329	509	246	579	333	333	0	0	0	0
Bryn Mawr C.	330	464	471	388	325	0	68	0	257	0
U. Wisconsin-La Crosse	331	210	113	205	323	80	0	0	243	0
Texas Christian U.	332	260	341	388	321	0	167	0	154	0
Youngstown State U.	332	59	105	327	321	139	158	0	24	0
Rhode Island C.	334	100	120	356	320	0	0	0	0	320
CUNY, New York City C. of Technology	335	28	315	200	319	0	5	0	314	0
Johnson C. Smith U.	336	228	66	300	318	0	318	0	0	0
California State U., Dominguez Hills	337	626	635	393	317	0	317	0	0	0
Winthrop U.	338	199	256	231	316	0	95	221	0	0
Southern Illinois U., Edwardsville	339	516	390	231	315	0	193	0	122	0
Cleveland State U.	340	283	488	716	313	0	122	0	191	0
St. John's U., New York	341	142	221	325	304	0	304	0	0	0
SUNY, C. of Environmental Science and Forestry	342	32	52	136	303	141	115	0	0	47
Towson U.	343	710	564	187	300	17	168	0	115	0
Sam Houston State U.	344	262	420	414	298	0	151	0	147	0
U. of the Incarnate Word	344	568	372	176	298	0	238	0	60	0
Southern U. and A&M C., Baton Rouge	346	1,132	646	466	292	0	65	0	227	0
Albion C.	347	114	180	272	289	14	98	0	53	124
Wellesley C.	348	1,194	1,109	251	286	0	263	0	23	0
U. Richmond	349	349	187	286	280	0	202	0	78	0
Williams C.	350	382	263	253	268	75	0	0	193	0
Pomona C.	351	277	250	490	263	60	64	0	139	0
Colgate U.	352	389	278	248	259	16	161	0	82	0
Missouri State U.	353	150	336	380	258	74	0	0	184	0
Harvey Mudd C.	354	604	160	297	257	0	109	0	148	0
Indiana U., South Bend	355	22	ne	ne	256	0	12	0	244	0
U. Maryland Center for Environmental Science	355	228	80	174	256	0	195	0	61	0
Indiana U. Pennsylvania	357	133	128	268	255	0	84	0	171	0
CUNY, Baruch C.	358	241	330	296	253	0	0	0	253	0
Yeshiva U.	358	0	0	286	253	0	0	0	253	0
Bowdoin C.	360	285	177	184	252	0	158	0	78	16

TABLE 49

## Federally financed higher education R&amp;D expenditures in the physical sciences, ranked by all FY 2021 physical sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Dillard U.	360	352	122	662	252	0	0	47	205	0
Fordham U.	362	0	107	294	251	0	251	0	0	0
Ithaca C.	363	ne	ne	301	246	132	101	0	13	0
Davidson C.	364	215	232	157	245	0	138	0	107	0
CUNY, John Jay C. of Criminal Justice	365	249	222	405	235	0	165	0	0	70
DePaul U.	365	111	112	207	235	0	24	0	211	0
Pacific U.	367	220	283	29	233	10	207	0	16	0
Lafayette C.	368	298	333	299	231	0	37	0	194	0
Carleton C.	369	357	210	248	230	19	110	0	101	0
SUNY, Oswego	370	351	266	182	228	0	228	0	0	0
Bates C.	371	433	340	318	227	0	190	0	37	0
Keene State C.	372	ne	52	53	223	0	223	0	0	0
U. of the Pacific	372	247	422	307	223	92	91	0	40	0
U. Wisconsin-Oshkosh	374	227 i	225 i	224 i	222	0	222	0	0	0
U. New Haven	375	26	300	142	216	0	0	216	0	0
Central Washington U.	376	189	182	255	213	0	186	0	27	0
Sonoma State U.	377	ne	ne	123	209	0	188	0	0	21
U. Houston-Clear Lake	378	442	476	377	208	0	0	0	0	208
Drake U.	379	113	118	ne	200	0	0	0	200	0
Oberlin C.	380	486	422	262	190	0	58	0	132	0
CUNY, York C.	381	ne	862	510	186	0	61	0	125	0
Colby C.	382	427	297	299	184	0	143	0	41	0
Framingham State U.	383	17	ne	169	177 i	0 i	177 i	0 i	0 i	0 i
Andrews U.	384	ne	183	191	174	174	0	0	0	0
Canisius C.	385	163	191	ne	173	0	0	0	0	173
Grand Valley State U.	386	597	246	350	172	0	172	0	0	0
Appalachian State U.	387	303	211	172	171	0	5	0	166	0
Tuskegee U.	388	383	163	166	169	0	134	0	35	0
West Texas A&M U.	388	2	75	166	169	0	169	0	0	0
California State U., Chico	390	86	166	150	166	0	4	0	162	0
California State U., Bakersfield	391	0	313	29	159	0	159	0	0	0
Fort Hays State U.	391	ne	52	85	159	0	154	0	5	0
Reed C.	391	25	81	150	159 i	0 i	116 i	0 i	43 i	0 i

TABLE 49

## Federally financed higher education R&amp;D expenditures in the physical sciences, ranked by all FY 2021 physical sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Marshall U.	394	260	462	99	155	0	143	0	12	0
Salisbury U.	395	42	335	21	148	0	148	0	0	0
Fayetteville State U.	396	300	200	260	147	0	0	0	0	147
Southeastern Louisiana U.	397	108	35	179	145	0	107	0	38	0
Tennessee State U.	397	318	112	137	145	i 104	i 41	i 0	i 0	i 0
Murray State U.	399	157	328	155	141	0	141	0	0	0
Pennsylvania State U., Behrend	400	30	33	31	138	0	26	95	17	0
Vassar C.	400	773	i 168	160	138	0	49	0	89	0
Claremont McKenna C.	402	39	140	144	136	21	56	0	59	0
West Chester U. Pennsylvania	403	36	84	73	135	24	56	0	55	0
C. Wooster	404	436	251	126	134	i 0	i 97	i 0	i 37	i 0
East Tennessee State U.	404	281	249	315	134	97	1	0	36	0
Montana Technological U.	406	77	54	97	133	0	133	0	0	0
U. Colorado Colorado Springs	407	105	68	69	131	0	57	0	25	49
California State U., Sacramento	408	170	199	196	130	0	5	0	125	0
U. Nebraska, Kearney	408	158	248	142	130	0	130	0	0	0
Clafin U.	410	600	508	258	129	0	104	0	25	0
U. Puerto Rico, Cayey	411	45	140	185	127	0	65	0	62	0
U. Tulsa	412	364	202	114	125	0	22	0	103	0
Grinnell C.	413	127	44	410	124	119	5	0	0	0
Long Island U.	414	60	171	51	123	0	69	0	54	0
Union C., Schenectady	415	210	522	222	122	20	96	0	6	0
Eastern Kentucky U.	416	62	0	61	115	0	51	0	64	0
Manhattan C.	417	ne	55	71	112	0	112	0	0	0
Lewis and Clark C.	418	111	153	494	110	0	55	0	55	0
SUNY, C. Plattsburgh	419	333	259	110	107	0	66	0	41	0
Florida Gulf Coast U.	420	0	116	344	106	0	106	0	0	0
Hobart and William Smith Colleges	421	ne	186	132	104	0	0	0	99	5
Loyola Marymount U.	421	131	132	140	104	0	104	0	0	0
Black Hills State U.	423	395	371	91	103	0	0	0	94	9
Albany State U.	424	137	150	54	102	0	102	0	0	0
Purdue U., Northwest	424	284	111	168	102	0	102	0	0	0
Texas A&M International U.	426	1	0	38	101	0	64	0	37	0

TABLE 49

## Federally financed higher education R&amp;D expenditures in the physical sciences, ranked by all FY 2021 physical sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Eastern Michigan U.	427	155	185	126	98	43	28	18	9	0
Connecticut C.	428	249	384	113	97	0	97	0	0	0
Gallaudet U.	429	156	22	0	92	0	0	0	92	0
U. Houston-Downtown	430	0	0	0	88	0	65	0	0	23
Texas A&M U.-Kingsville	431	28	129	108	87	0	87	0	0	0
Indiana State U.	432	168	155	160	86	0	30	0	56	0
Trinity C., Hartford	432	129	92	5	86	0	86	0	0	0
U. Guam	432	0	0	0	86	86	0	0	0	0
U. San Francisco	435	0	0	0	84	84	0	0	0	0
U. Northern Colorado	436	26	20	19	83	22	61	0	0	0
Willamette U.	436	245	194	66	83	0	4	0	0	79
Purdue U., Fort Wayne	438	57	101	123	82	0	82	0	0	0
Seattle U.	439	137	50	58	79	0	0	0	79	0
Fort Valley State U.	440	88	104	72	76	0	76	0	0	0
Mercyhurst U.	441	ne	71 i	73 i	75 i	0 i	26 i	0 i	49 i	0 i
U. of Mary Washington	441	4	48	54	75	0	50	0	25	0
Fairfield U.	443	95	442	100	74	0	7	0	50	17
California State U., Channel Islands	444	23	54	0	73	0	73	0	0	0
U. of St. Thomas (MN)	445	87	61	90	70	0	58	0	12	0
Suffolk U.	446	ne	ne	97	69	0	69	0	0	0
Central State U.	447	83	63	6	67	0	16	0	51	0
Doane U.	447	166	60	62 i	67 i	0 i	67 i	0 i	0 i	0 i
Providence C.	447	94	71	372	67	25	42	0	0	0
U. Wisconsin-Green Bay	450	43 i	66 i	72 i	66 i	0 i	30 i	0 i	36 i	0 i
Sacred Heart U.	451	ne	ne	ne	64	64	0	0	0	0
U. Hawaii, Hilo	451	466	128	214	64	0	31	0	33	0
Western Illinois U.	453	0	36	60	63	0	47	0	16	0
Eastern Washington U.	454	212	152	66	62	0	0	0	62	0
Biola U.	455	55 i	58 i	60 i	61 i	0 i	21 i	0 i	40 i	0 i
California State U., Stanislaus	456	0	0	0	60	0	60	0	0	0
Coastal Carolina U.	456	0	0	0	60	0	0	0	60	0
U. Wisconsin-River Falls	456	345	ne	258	60	0	24	0	36	0
California State U., Monterey Bay	459	0	65	0	57	0	57	0	0	0



TABLE 49

## Federally financed higher education R&amp;D expenditures in the physical sciences, ranked by all FY 2021 physical sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
SUNY, C. Brockport	460	0	6	41	54	24	19	0	11	0
Wheaton C., Wheaton	460	23	74	66	54	0	19	0	35	0
Austin Peay State U.	462	271	207	13	50	0	0	0	50	0
Lamar U.	463	23	101	20	49	0	0	0	49	0
Dakota State U.	464	0	0	0	48	0	0	0	48	0
Lawrence Technological U.	464	56	0	6	48	0	0	0	48	0
U. Alaska, Southeast	466	0	0	30	47	47	0	0	0	0
U. Nebraska, Omaha	466	194	130	0	47	0	0	0	47	0
U. Baltimore	468	36	34	45	45	0	0	0	0	45
Central Connecticut State U.	469	ne	78	60	41	0	41	0	0	0
U. Wisconsin-Platteville	470	ne	36 i	36 i	37 i	0 i	21 i	0 i	16 i	0 i
Northeastern Illinois U.	471	88	84	66	34	0	0	0	0	34
Savannah State U.	471	59	63	50	34	0	34	0	0	0
U. Ana G. Mendez, Gurabo	473	144	29	25	29	0	29	0	0	0
Langston U.	474	33 i	29	109	26	0	0	0	0	26
Pittsburg State U.	475	21	30	22	24	0	24	0	0	0
Saginaw Valley State U.	476	30	294	21	22 i	0 i	22 i	0 i	0 i	0 i
U. Virginia's C. Wise	477	ne	ne	ne	18	0	18	0	0	0
Monmouth U.	478	ne	0	0	15	0	0	0	15	0
U. Illinois, Springfield	478	0	12	12	15	0	15	0	0	0
Kettering U.	480	410	116	305	14	0	0	0	14	0
U. Wisconsin-Stevens Point	480	61 i	73 i	85	14	0	7	0	7	0
C. of Saint Benedict	482	22	21 i	20 i	10 i	0 i	6 i	1 i	3 i	0 i
U. Louisiana, Monroe	482	26	67	55	10	0	10	0	0	0
Azusa Pacific U.	484	44	28	12	9	0	9	0	0	0
Minnesota State U., Mankato	484	74	94	2	9	9	0	0	0	0
Hamilton C.	486	3	12	3	8	0	0	0	8	0
Citadel Military C. South Carolina	487	ne	ne	0	7	0	0	0	7	0
Humboldt State U.	487	69	48	76	7	0	0	0	7	0
Texas Woman's U.	487	7	0	49	7	0	0	0	0	7
U. Michigan, Dearborn	490	64	107	26	6	0	0	0	0	6
Alfred U.	491	11	13	7	5	5	0	0	0	0
Colorado C.	492	60	14	15	4	0	0	0	4	0

TABLE 49

**Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2021 physical sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
U. South Carolina, Aiken	492	0	0	8	4	0	4	0	0	0
New York Institute of Technology	494	174	0	0	3	0	0	0	3	0
St. Olaf C.	494	106	60	13	3	0	3	0	0	0
Hofstra U.	496	24	38	4	2	2	0	0	0	0
U. North Georgia	496	71	52	0	2	2	0	0	0	0
All other surveyed institutions	-	92,186	7,363	4,694	0	0	0	0	0	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

nec = not elsewhere classified.

<sup>a</sup> Johns Hopkins University includes the Applied Physics Laboratory, with \$291,354 thousand in federally financed R&D expenditures in physical sciences in FY 2021.

<sup>b</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

<sup>c</sup> The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

<sup>d</sup> The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

<sup>e</sup> The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

**Note(s):**

Institutions reporting zero expenditures in ranked total for FY 2021 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 50

**Total and federally financed higher education R&D expenditures in chemistry, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
All institutions	-	1,866,167	1,965,466	1,929,674	1,999,546	1,130,063	1,182,645	1,167,474	1,239,825
U. California, San Francisco	1	62,661	65,572	68,745	68,492	35,467	38,487	41,413	37,311
U. Houston	2	25,126	34,730	40,835	43,502	2,511	2,298	2,981	3,476
U. California, Berkeley	3	32,164	30,743	36,326	41,402	16,256	15,560	17,414	21,494
Massachusetts Institute of Technology	4	31,921	31,179	32,375	37,408	20,339	18,377	19,258	22,959
California Institute of Technology	5	46,180	42,498	40,638	37,366	30,824	28,469	26,664	22,573
Harvard U.	6	29,444	34,683	33,675	37,078	20,642	20,722	19,149	22,149
Northwestern U.	7	39,150	40,651	35,130	36,484	23,691	25,466	22,766	25,004
U. Illinois, Urbana-Champaign	8	31,819	35,411	34,642	35,360	19,818	21,926	21,367	20,905
U. Wisconsin-Madison	9	24,620	26,369	31,441	33,896	15,032	17,502	19,249	22,131
U. Michigan, Ann Arbor	10	29,285	29,977	31,361	33,006	17,947	19,168	18,164	19,179
U. Notre Dame	11	26,254	28,342	29,216	30,859	16,038	17,970	18,246	19,720
Princeton U.	12	21,060	22,317	25,095	29,163	10,722	11,066	13,611	13,984
Cornell U.	13	25,958	26,542	27,423	27,978	15,966	19,679	21,016	19,666
Stanford U.	14	22,807	25,306	25,478	27,849	19,329	22,382	22,802	25,419
U. California, San Diego	15	22,362	32,067	27,429	27,339	19,106	21,472	16,704	21,719
Purdue U., West Lafayette	16	22,723	22,763	22,953	26,272	10,704	11,830	12,344	14,122
Johns Hopkins U. <sup>a</sup>	17	23,237	24,180	25,946	24,078	21,621	22,678	24,462	22,938
U. California, Los Angeles	18	18,893	23,711	19,842	24,038	12,928	16,506	14,839	16,178
U. Chicago	19	23,476	23,963	24,631	24,034	18,284	19,011	20,747	20,993
U. Washington, Seattle	20	21,246	22,113	24,008	23,508	17,773	19,183	21,802	21,211
Texas A&M U., College Station and Health Science Center	21	24,441	24,066	24,507	23,182	6,994	7,711	8,781	8,988
U. Pennsylvania	22	18,743	20,121	21,246	23,124	11,489	12,441	13,345	15,115
U. North Carolina, Chapel Hill	23	22,770	24,143	22,546	23,102	16,730	16,280	15,780	16,230
Georgia Institute of Technology	24	26,409	25,802	22,323	22,555	16,774	17,973	15,235	15,425
Florida International U.	25	11,455	17,688	18,412	22,439	5,561	6,744	7,623	12,085
Yale U.	26	21,752	23,452	21,309	21,464	13,731	14,079	10,663	12,340
Emory U.	27	19,743	20,261	19,048	20,841	12,453	13,433	12,627	15,197
Florida State U.	28	22,901	20,708	23,225	20,686	12,016	11,289	12,958	11,182
U. Minnesota, Twin Cities	29	18,303	21,094	22,061	20,661	12,370	14,112	14,721	15,439
U. Utah	30	15,935	40,326	18,018	19,435	10,084	24,189	11,546	12,874
U. California, Irvine	31	21,325	22,169	21,988	18,924	14,279	16,378	15,738	12,676
U. Texas, Austin	32	15,216	15,321	16,470	18,584	7,278	7,452	8,614	7,913
Boston U.	33	13,092	13,712	14,230	17,695	7,975	8,686	9,210	11,004

TABLE 50

**Total and federally financed higher education R&D expenditures in chemistry, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Indiana U., Bloomington	34	17,613	19,039	19,430	17,500	11,681	12,357	11,206	10,812
Pennsylvania State U., University Park and Hershey Medical Center	35	18,013	18,532	17,696	16,923	9,695	11,300	10,176	13,617
Columbia U. in the City of New York	36	11,038	11,749	11,983	16,528	8,906	8,577	9,611	14,024
Vanderbilt U. and Vanderbilt U. Medical Center	37	14,798	12,997	13,559	16,401	7,581	5,760	7,056	9,126
North Carolina State U.	38	7,648	10,796	11,821	16,108	5,494	5,718	6,645	7,120
Ohio State U.	39	15,804	18,579	28,972	15,540	12,628	14,421	23,166	12,211
U. Pittsburgh, Pittsburgh	40	17,627	17,222	16,058	15,518	9,569	11,279	10,893	9,776
Rice U.	41	13,430	16,975	16,251	15,332	5,433	6,163	5,909	7,002
U. Arizona	42	13,525	13,060	14,511	15,246	7,711	7,735	8,089	7,395
Virginia Polytechnic Institute and State U.	43	12,149	16,338	14,242	14,389	6,950	9,475	8,991	8,643
New York U.	44	12,254	14,483	13,753	14,156	10,777	12,540	11,679	12,181
U. California, Davis	45	11,110	13,683	13,607	14,017	7,774	9,783	9,896	9,954
SUNY, Stony Brook U.	46	10,403	12,052	12,396	13,646	7,694	9,174	9,555	10,030
Washington State U.	47	9,476	10,768	8,512	13,478	6,544	7,003	5,986	7,937
Montana State U., Bozeman	48	6,178	7,838	8,796	13,389	5,110	5,448	5,606	9,290
U. Florida	49	11,850	12,084	10,773	12,984	6,292	6,722	6,769	7,415
U. Virginia, Charlottesville	50	11,746	11,511	11,980	12,853	7,132	6,674	6,608	8,676
U. Southern California	51	12,180	14,258	14,232	12,687	7,703	7,884	7,570	6,787
Michigan State U.	52	10,641	10,320	11,806	12,568	6,757	5,939	7,154	8,166
Wayne State U.	53	10,072	12,192	10,163	12,458	5,703	7,853	6,426	8,355
U. Southern Mississippi	54	11,054	13,266	11,328	12,382	8,358	9,050	8,520	11,026
Dartmouth C. and Dartmouth Hitchcock Medical Center	55	8,435	8,125	9,198	12,008	2,619	2,471	3,074	3,880
Iowa State U.	56	14,074	12,549	12,374	11,950	8,084	7,048	8,055	9,139
Arizona State U.	57	11,314	14,026	13,030	11,762	5,827	5,870	5,739	5,232
Washington U., Saint Louis	58	11,486	14,244	12,722	11,696	7,419	9,548	8,606	8,809
Duke U.	59	9,293	10,711	9,809	11,536	7,228	8,841	8,398	10,066
U. Kansas	60	4,670	5,932	4,499	11,480	3,761	4,395	3,664	9,348
U. California, Santa Cruz	61	6,840	10,719	10,478	10,689	4,219	7,835	7,886	7,556
SUNY, Binghamton U.	62	13,084	10,839	11,900	10,445	4,588	4,990	5,324	3,922
U. Nebraska, Lincoln	63	12,332	9,916	11,631	10,171	6,848	6,911	6,237	6,867
U. Massachusetts, Amherst	64	12,489	19,452	14,992	10,139	7,795	8,431	10,044	6,635
SUNY, U. Buffalo	65	9,069	7,311	7,461	10,122	5,798	4,716	4,783	5,756
U. Oklahoma, Norman and Health Science Center	66	10,818	11,836	12,342	10,051	7,849	9,760	8,392	5,844
Louisiana State U., Baton Rouge	67	9,652	8,558	8,252	10,020	4,119	4,312	3,955	5,423

TABLE 50

**Total and federally financed higher education R&D expenditures in chemistry, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
U. California, Riverside	68	8,602	9,249	9,260	9,556	6,557	7,019	7,396	8,133
U. Maryland <sup>b</sup>	69	na	9,888	10,389	9,419	na	7,246	6,777	6,858
U. Delaware	70	8,752	9,124	8,146	9,404	7,112	7,107	6,472	7,732
U. Colorado Boulder	71	8,937	9,650	9,041	9,383	7,298	6,877	6,537	7,132
U. Illinois, Chicago	72	7,653	8,664	7,868	9,326	4,506	5,362	4,659	6,060
Temple U.	73	6,458	7,522	9,606	9,251	5,078	5,636	5,786	5,501
Georgia State U.	74	8,188	8,366	9,304	9,032	4,860	5,085	6,834	5,193
Northeastern U.	75	6,270	7,067	7,636	8,833	4,218	4,258	4,811	6,872
Colorado State U., Fort Collins	76	9,944	10,311	8,042	8,806	6,907	7,684	5,324	6,716
Carnegie Mellon U.	77	9,028	8,868	9,207	8,696	3,122	3,818	4,095	3,985
Boston C.	78	6,530	7,188	7,492	8,543	4,805	5,597	5,627	6,600
Xavier U. Louisiana	79	6,921	5,878	7,186	8,440	6,697	5,796	7,077	8,325
U. California, Santa Barbara	80	11,676	17,290	9,166	8,346	7,982	10,287	6,268	6,502
U. Georgia	81	15,528	10,042	8,005	8,057	3,512	5,325	3,628	4,109
Texas Tech U.	82	7,703	7,368	7,136	7,686	2,510	2,760	2,780	2,622
Brandeis U.	83	3,137	2,287	4,239	7,463	2,470	1,819	1,679	5,363
Tufts U.	84	42,537	5,517	10,325	7,178	26,222	645	4,517	6,470
Jackson State U.	85	7,222	7,573	8,452	7,071	6,848	7,017	7,991	6,614
U. Texas, San Antonio	86	8,475	6,843	6,980	7,037	1,875	1,732	1,685	2,248
U. Akron	87	10,295	9,571	8,576	6,703	3,213	3,992	4,238	4,026
U. Tennessee, Knoxville <sup>c</sup>	88	8,481	7,780	6,816	6,532	4,300	3,649	3,170	2,699
U. Oregon	89	6,286	5,867	4,910	6,477	3,605	3,621	3,937	4,686
Rensselaer Polytechnic Institute	90	5,560	6,393	5,704	6,355	3,075	2,391	3,033	2,793
U. Texas, El Paso	91	6,456	6,519	4,620	6,291	4,026	3,736	3,233	2,978
U. Texas, Dallas	92	3,306	4,093	5,614	6,253	1,048	2,499	3,148	3,247
U. Cincinnati	93	4,704	5,968	5,796	5,987	2,199	2,241	2,005	2,173
U. Rochester	94	4,195	5,111	5,309	5,705	3,568	4,115	4,136	4,519
U. South Florida <sup>d</sup>	95	6,843	8,838	6,507	5,647	3,201	2,686	2,520	2,365
U. Texas, Arlington	96	4,776	5,243	5,740	5,631	1,228	1,432	1,807	2,204
U. Kentucky	97	4,703	5,236	4,802	5,598	3,001	4,073	3,669	4,627
Rutgers, State U. New Jersey, New Brunswick	98	4,606	7,258	6,321	5,579	3,529	2,680	2,557	3,276
U. Massachusetts, Lowell	99	3,948	4,105	4,475	5,555	422	469	1,064	1,387
Rockefeller U.	100	5,669	4,970	4,720	5,530	3,261	2,287	2,299	3,233
U. Missouri, Columbia	101	4,893	4,266	5,730	5,501	4,563	4,142	5,168	4,640

TABLE 50

**Total and federally financed higher education R&D expenditures in chemistry, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Brown U.	102	5,160	5,250	5,201	5,495	3,230	3,932	3,416	3,552
U. Nevada, Las Vegas	103	4,491	4,910	5,140	5,482	2,984	2,991	2,828	2,582
Auburn U., Auburn	104	4,298	6,440	7,222	5,463	1,355	1,833	1,737	1,645
U. North Texas, Denton	105	3,314	4,069	5,586	5,451	1,191	1,143	1,107	1,596
U. Iowa	106	5,293	4,659	5,415	5,342	3,835	3,607	3,681	4,065
Baylor U.	107	4,279	3,877	3,921	5,111	921	785	945	1,464
Howard U.	108	3,457	4,558	4,546	5,000	2,994	3,989	3,769	4,150
U. Connecticut	109	5,170	4,713	5,868	4,998	3,297	3,005	3,515	3,316
CUNY, City C.	110	5,779	6,308	5,164	4,978	4,351	4,502	3,803	3,808
SUNY, U. Albany	111	5,947	5,655	5,292	4,814	2,759	3,266	3,384	3,054
Mississippi State U.	112	5,228	6,348	6,041	4,790	1,603	1,206	1,111	1,175
California State U., Los Angeles	113	4,040	5,640	4,602	4,770	3,894	4,197	3,633	3,691
Syracuse U.	114	4,005	4,454	4,276	4,742	1,037	1,316	1,370	2,036
U. Arkansas, Fayetteville	115	6,092	6,084	5,478	4,668	2,262	2,548	2,160	2,301
West Virginia U.	116	4,761	5,632	4,868	4,509	2,691	3,616	3,040	2,965
CUNY, Hunter C.	117	3,119	3,027	3,003	4,412	2,288	1,810	2,579	3,842
San Diego State U.	118	3,581	4,203	4,075	4,386	2,481	2,655	2,297	2,214
Oklahoma State U., Stillwater	119	5,074	4,804	5,180	4,341	1,363	1,971	1,513	1,179
U. Central Florida	120	4,622	4,148	4,614	4,027	1,667	1,635	1,876	1,645
Brigham Young U., Provo	121	2,942	3,158	3,234	4,020	2,514	2,617	2,457	2,487
Kansas State U.	122	4,750	5,535	4,374	3,977	3,037	3,641	2,739	2,466
U. Nevada, Reno	123	4,285	4,373	3,903	3,935	1,888	2,004	1,534	2,370
U. Alabama, Tuscaloosa	124	4,382	3,315	2,937	3,853	2,500	2,435	2,148	2,222
North Dakota State U.	125	4,067	3,713	3,106	3,801	1,806	1,889	1,349	2,245
Miami U.	126	1,786	847	1,185	3,798	521	14	292	2,543
Marquette U.	127	2,639	2,202	2,361	3,476	1,467	1,222	1,424	2,323
Colorado School of Mines	128	3,576	2,839	2,691	3,333	3,080	2,379	2,198	3,022
George Washington U.	129	3,492	3,526	3,976	3,281	2,048	2,256	1,769	1,974
U. Vermont	130	1,368	2,438	2,415	3,250	1,187	1,279	1,327	1,445
U. Mississippi	131	3,599	6,256	3,994	3,235	2,169	3,890	2,225	2,022
Clemson U.	132	4,957	5,030	4,327	3,121	2,865	2,985	2,337	1,749
U. Toledo	133	2,367	2,703	1,935	3,069	1,355	1,713	1,367	2,290
U. Puerto Rico, Rio Piedras	134	1,809	2,488	2,776	2,967	1,517	2,217	2,360	2,650
Utah State U.	135	3,075	3,158	3,101	2,926	1,354	1,710	1,636	1,974

TABLE 50

**Total and federally financed higher education R&D expenditures in chemistry, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
U. California, Merced	136	2,280	3,653	2,630	2,919	1,630	2,250	2,041	1,588
New Jersey Institute of Technology	137	2,538	3,128	3,891	2,846	700	553	939	836
Case Western Reserve U.	138	2,868	3,471	2,955	2,785	2,233	2,735	2,291	2,191
Oakland U.	139	1,136	2,281	2,521	2,777	767	720	966	854
U. Massachusetts, Boston	140	1,252	1,983	2,370	2,695	735	1,193	1,706	1,796
Georgetown U.	141	3,369	2,958	3,318	2,694	2,627	2,194	2,661	2,185
U. South Carolina, Columbia	142	1,723	1,394	1,205	2,682	0	1	0	0
Oregon State U.	143	2,916	3,811	2,788	2,652	2,378	3,214	2,560	2,444
U. Denver	144	2,944	2,818	3,314	2,647	1,916	2,110	2,435	1,834
Middle Tennessee State U.	145	299	386	345	2,632	198	124	185	1,670
Missouri U. of Science and Technology	146	2,595	2,446	2,315	2,605	1,985	1,462	1,833	1,769
U. Montana, Missoula	147	2,184	3,363	2,782	2,554	2,091	2,351	1,783	1,655
Old Dominion U.	148	2,687	2,838	2,297	2,470	2,126	1,654	1,091	1,123
U. Alabama, Birmingham	149	2,239	2,177	1,018	2,415	1,739	1,880	925	1,082
Kent State U.	150	1,390	2,087	2,091	2,387	550	591	968	1,102
U. Memphis	151	1,409	1,579	2,143	2,347	713	809	667	733
Rutgers, State U. New Jersey, Newark	152	2,000	1,869	1,976	2,296	1,559	1,412	1,175	1,704
Indiana U.-Purdue U., Indianapolis	153	1,912	1,832	1,783	2,262	1,075	816	919	1,385
U. Missouri, Saint Louis	154	1,985	2,412	1,764	2,255	1,363	1,741	1,131	951
Tulane U.	155	1,866	3,121	2,734	2,227	1,231	1,939	1,372	1,293
U. North Carolina, Greensboro	156	2,701	2,612	2,028	2,216	2,291	2,301	1,494	1,647
California State U., Long Beach	157	3,819	3,453	2,474	2,188	3,660	3,327	2,328	2,059
U. New Mexico	158	3,678	2,112	2,704	2,174	3,006	1,716	2,243	1,882
U. North Dakota	159	2,306	2,720	2,212	2,152	560	881	610	672
New Mexico State U.	160	6,534	5,931	5,296	2,141	5,348	4,397	3,699	612
Saint Louis U.	161	1,580	2,179	1,786	2,120	830	877	1,235	1,226
U. Maryland, Baltimore County	162	3,977	1,714	1,558	2,106	2,893	824	1,233	1,723
San Jose State U.	163	1,234	1,541	1,787	2,097	1,024	1,310	1,420	1,303
Southern Methodist U.	164	1,102	1,691	1,469	2,094	740	798	921	1,154
Lehigh U.	165	3,184	2,201	2,147	2,065	2,137	1,312	1,298	1,432
U. South Dakota	166	1,737	2,741	2,499	2,022	548	756	992	726
Virginia Commonwealth U.	167	2,287	2,383	2,250	2,017	1,174	1,442	1,293	1,356
U. Rhode Island	168	2,469	2,020	2,081	1,957	1,855	1,682	1,726	1,344
Georgia Southern U.	169	598	444	1,476	1,951	108	118	534	523

TABLE 50

**Total and federally financed higher education R&D expenditures in chemistry, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
U. Massachusetts, Dartmouth	170	996	1,314	1,601	1,934	158	152	200	444
U. New Orleans	171	1,328	1,387	1,595	1,903	616	447	231	702
Villanova U.	172	1,371	1,565	2,371	1,884	271	272	834	540
San Francisco State U.	173	2,106	1,418	1,735	1,871	417	171	405	409
Michigan Technological U.	174	1,556	1,507	1,925	1,867	402	288	642	695
South Dakota State U.	175	2,960	2,898	1,941	1,857	1,149	1,213	1,026	1,365
U. Louisville	176	1,260	1,824	1,820	1,813	879	1,116	1,012	1,049
U. New Hampshire	177	1,677	1,625	1,428	1,808	828	740	818	655
Texas State U.	178	1,513	1,296	1,141	1,791	1,012	870	976	1,647
Mercer U.	179	1,613	2,106	1,951	1,786	0	0	0	0
U. Hawaii, Manoa	180	1,750	1,876	2,401	1,722	1,431	1,366	1,732	1,204
California State U., San Bernardino	181	20	23	4	1,706	0	0	3	1,579
U. Wisconsin-Milwaukee	182	4,080	2,749	2,173	1,679	2,555	1,275	750	497
Florida Atlantic U.	183	2,181	2,184	1,772	1,668	1,258	968	836	694
Portland State U.	184	3,360	2,667	1,782	1,646	2,151	2,222	1,467	1,145
CUNY, Advanced Science Research Center	185	340	478	1,376	1,617	293	430	922	1,160
Worcester Polytechnic Institute	186	2,035	1,722	1,422	1,613	1,589	1,481	1,021	1,035
U. North Carolina, Charlotte	187	882	1,585	1,261	1,610	866	1,207	977	1,267
Northern Illinois U.	188	1,458	1,283	1,536	1,579	649	969	1,146	1,208
CUNY, Lehman C.	189	1,821	1,495	1,698	1,567	1,821	1,495	1,612	1,551
Bowling Green State U.	190	2,390	1,769	1,477	1,561	969	1,005	741	753
Southern Illinois U., Carbondale	191	2,118	901	1,318	1,441	1,178	592	934	824
Ohio U.	192	756	492	1,399	1,432	197	219	582	1,073
U. Miami	193	1,782	1,102	1,437	1,318	1,193	604	1,011	1,129
CUNY, Queens C.	194	815	893	955	1,289	685	846	870	1,197
Hope C.	195	826	520	615	1,238	264	226	204	752
Western Washington U.	196	964	898	1,037	1,218	487	544	743	846
East Carolina U.	197	868	1,586	1,354	1,193	419	688	830	986
U. Arkansas, Pine Bluff	198	405	448	540	1,175	315	352	418	895
U. Alabama, Huntsville	199	1,648	1,466	1,300	1,165	169	262	218	219
U. Colorado Denver <sup>e</sup>	200	na	na	na	1,157	na	na	na	1,144
U. Maine	200	888	2,171	1,160	1,157	347	810	220	128
Clark Atlanta U.	202	992	804	978	1,139	960	680	760	951
California State U., Fresno	203	562	703	748	1,129	431	482	616	1,014



TABLE 50

**Total and federally financed higher education R&D expenditures in chemistry, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
CUNY, Brooklyn C.	204	1,168	760	i 789	1,127	1,049	699	i 727	1,120
Furman U.	205	1,146	981	913	1,105	527	556	357	522
Wichita State U.	206	607	715	945	1,095	410	656	756	593
Fordham U.	207	63	333	747	1,067	0	107	294	251
George Mason U.	208	85	621	304	1,062	61	79	125	447
Louisiana Tech U.	209	853	732	711	1,051	243	86	71	146
U. Louisiana, Lafayette	210	853	162	1,256	1,029	114	160	158	82
Trinity U.	211	1,237	1,175	1,012	1,026	673	452	543	471
Wake Forest U.	212	391	1,370	575	1,010	389	397	396	534
U. Alaska, Anchorage	213	0	15	59	984	0	15	59	898
Idaho State U.	214	418	583	564	959	363	505	429	628
California State U., East Bay	215	ne	ne	296	947	ne	ne	164	830
Clarkson U.	216	772	2,300	1,829	945	343	504	523	283
James Madison U.	217	1,123	1,123	766	941	147	481	168	397
Illinois State U.	218	501	702	338	891	390	545	291	709
Kennesaw State U.	219	798	980	731	880	324	621	393	267
St. Edward's U.	220	345	272	750	865	230	250	735	850
Loyola U., Chicago	221	1,111	1,250	711	860	726	913	610	570
Southern Illinois U., Edwardsville	222	1,026	502	911	849	299	306	231	193
Long Island U.	223	0	20	675	845	0	0	0	69
U. Northern Iowa	224	705	1,271	825	841	472	1,002	710	777
Wesleyan U.	225	1,371	960	776	827	695	395	487	525
Texas Southern U.	226	196	144	927	801	139	114	881	801
American U.	227	1,300	1,864	847	790	738	190	196	160
Northern Arizona U.	228	1,355	1,387	799	780	1,094	271	324	270
Western Kentucky U.	229	1,063	1,287	1,360	772	546	664	783	401
Grambling State U.	230	525	493	468	756	381	424	349	386
Boise State U.	231	900	1,182	857	745	417	619	509	440
Reed C.	232	243	222	757	738	i 19	49	109	116
Drexel U.	233	1,494	1,130	902	735	629	308	305	310
Montclair State U.	234	256	245	507	689	242	106	224	437
U. Arkansas, Little Rock	235	901	896	1,088	685	603	614	828	590
U. Idaho	236	881	1,068	613	683	315	501	51	127
South Dakota School of Mines and Technology	237	685	504	732	681	539	485	691	639

TABLE 50

**Total and federally financed higher education R&D expenditures in chemistry, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Rowan U.	238	560	614	388	676	139	422	213	613
Winston-Salem State U.	239	180	193	437	673	180	193	410	590
Creighton U.	240	583	734	626	670	196	302	277	310
Ball State U.	241	677	963	801	667	361	576	315	428
Bryn Mawr C.	242	510	422	758	657	158	136	130	68
North Carolina Central U.	243	128	120	149	656	0	75	54	634
U. of the Sciences Philadelphia	244	669	614	533	652	267	497	293	420
Arkansas State U., Jonesboro	245	578	922	840	647	320	740	720	523
Skidmore C.	245	241	256	314	647	128	115	209	523
U. Nebraska, Kearney	247	162	493	281	630	101	146	118	130
U. Wyoming	248	2,484	933	554	625	679	915	554	614
Prairie View A&M U.	249	224	299	421	623	163	182	392	622
U. Texas Rio Grande Valley	250	642	1,272	1,669	617	537	602	1,061	63
U. Puerto Rico, Mayaguez	251	618	792	980	616	382	545	612	394
Western Michigan U. and Homer Stryker M.D. School of Medicine	252	587	650	649	611	273	258	335	396
U.S. Naval Academy	253	1,223	1,324	927	603	1,157	1,284	903	602
U. South Alabama	254	278	471	407	589	239	355	338	464
Amherst C.	255	654	1,062	782	580	126	21	289	35
U. Wisconsin-Eau Claire	256	405	463	457	577	307	388	355	500
Duquesne U.	257	2,436	2,446	2,204	569	721	669	621	392
New Mexico Highlands U.	258	714	ne	541	568	675	ne	541	568
U.S. Air Force Academy	259	627	330	0	552	46	330	0	552
Cleveland State U.	260	763	733	761	549	109	211	307	122
Stevens Institute of Technology	261	51	0	10	548	51	0	0	258
Occidental C.	262	191	170	181	535	177	151	140	458
Spelman C.	263	620	595	713	523	620	595	713	523
U. West Florida	264	0	166	88	515	0	0	0	392
U. San Diego	265	673	727	578	498	403	575	341	256
Northern Kentucky U.	266	292	369	431	497	176	258	251	353
Barnard C.	267	361	606	341	495	361	561	276	432
William & Mary	268	699	766	501	494	592	497	379	366
Rochester Institute of Technology	269	929	651	522	492	632	395	382	246
Swarthmore C.	270	628	552	231	475	245	222	155	331
Florida Institute of Technology	271	571	448	469	466	186	180	154	204

TABLE 50

**Total and federally financed higher education R&D expenditures in chemistry, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
California Polytechnic State U., San Luis Obispo	272	348	385	456	460	252	198	265	274
Bucknell U.	273	396	265	494	i 456	18	80	298	i 292
California State U., Bakersfield	274	5	94	91	447	0	0	29	159
U. North Florida	275	343	345	485	446	143	248	286	252
Franklin and Marshall C.	276	780	533	406	444	579	187	254	292
Colgate U.	277	409	570	432	426	271	225	226	161
Naval Postgraduate School	278	299	104	348	422	299	104	234	422
Towson U.	279	217	218	246	420	84	110	120	168
California State U., Dominguez Hills	280	778	781	531	418	581	603	390	317
U. Maryland Center for Environmental Science	281	685	234	416	413	211	25	102	195
California State U., Northridge	282	385	366	666	406	369	315	612	274
Seton Hall U.	283	0	0	401	396	0	0	401	396
Fort Lewis C.	284	ne	1	44	394	ne	0	9	345
Salisbury U.	285	111	521	169	392	38	335	21	148
Bowie State U.	286	83	112	175	389	83	112	175	389
Morgan State U.	286	3	0	177	389	3	0	175	385
Tennessee Technological U.	288	820	653	583	374	549	498	426	270
U. Minnesota, Duluth	288	775	828	717	374	254	302	286	162
Santa Clara U.	290	289	337	342	368	233	313	315	310
U. Richmond	291	411	318	318	363	232	88	188	202
Haverford C.	292	320	i 315	i 394	i 357	i 221	201	187	273
Tarleton State U.	292	70	227	257	357	0	0	0	0
U. Missouri, Kansas City	294	312	347	591	353	133	182	273	236
St. John's U., New York	295	248	251	329	344	142	221	325	304
Grinnell C.	296	621	626	625	341	58	22	352	5
Illinois Institute of Technology	297	433	293	319	334	395	281	296	257
Sam Houston State U.	298	353	472	407	333	239	351	342	151
Calvin U.	299	422	325	310	i 321	i 372	265	254	i 270
Johnson C. Smith U.	300	228	66	300	318	i 228	66	300	318
Clark U.	301	243	539	594	317	74	204	161	74
California State U., Channel Islands	302	33	57	39	301	23	54	0	73
Morehouse C.	303	391	116	177	298	391	116	177	298
U. Central Arkansas	303	356	476	505	298	289	440	414	184
Alabama A&M U.	305	600	i 447	i 305	i 297	i 460	i 325	i 222	i 216

TABLE 50

**Total and federally financed higher education R&D expenditures in chemistry, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed				
		2018	2019	2020	2021	2018	2019	2020	2021	
CUNY, C. Staten Island	306	846	i 880	311	282	533	i 651	228	239	
SUNY, Oswego	306	525	385	291	282	351	266	182	228	
Tougaloo C.	308	848	849	280	278	i 848	849	280	278	i
Wellesley C.	309	438	487	283	277	408	367	251	263	
Delaware State U.	310	1,275	590	240	i 276	1,020	457	240	i 276	
Marshall U.	311	483	679	1,019	273	258	462	99	143	
Connecticut C.	312	538	902	350	271	247	384	113	97	
SUNY, Geneseo	313	63	59	102	269	0	0	82	256	
Pacific U.	314	188	189	71	268	113	114	0	207	
Sonoma State U.	314	ne	ne	88	268	ne	ne	8	188	
Texas A&M U.-Corpus Christi	314	341	645	181	268	198	414	107	59	
U. Wisconsin-Oshkosh	317	257	i 259	i 261	i 262	227	i 225	i 224	i 222	
Framingham State U.	318	28	ne	247	258	i 17	ne	169	177	i
Central Washington U.	319	115	51	197	256	71	12	152	186	
Keene State C.	320	ne	52	72	248	ne	52	53	223	
North Carolina Agricultural and Technical State U.	320	917	626	522	248	462	306	114	248	
Chapman U.	322	491	584	370	247	346	334	362	157	
Smith C.	323	221	242	217	246	142	151	167	97	
Carleton C.	324	410	382	488	244	219	114	142	110	
Grand Valley State U.	324	599	243	364	244	571	219	341	172	
Bates C.	326	291	209	211	238	252	166	185	190	
U. of the Incarnate Word	326	34	224	226	238	0	178	176	238	
Pace U.	328	349	152	138	226	0	0	0	0	
Wright State U.	329	675	384	390	222	387	183	221	153	
Loyola Marymount U.	330	249	369	231	218	131	132	140	104	
Montana Technological U.	331	110	62	123	216	77	54	97	133	
Texas A&M U.-Commerce	332	227	240	129	212	104	136	58	156	
Albion C.	333	108	123	204	207	i 0	0	92	98	i
California State Polytechnic U., Pomona	334	959	17	110	205	664	17	108	160	
Middlebury C.	335	153	245	253	201	131	213	238	201	
West Texas A&M U.	336	43	121	211	200	0	71	166	169	
Florida Gulf Coast U.	337	0	22	257	197	0	0	204	106	
U. Tulsa	338	300	317	261	196	51	21	43	22	
Murray State U.	339	194	337	165	195	157	328	155	141	

TABLE 50

**Total and federally financed higher education R&D expenditures in chemistry, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Lewis and Clark C.	340	160	127	151	194	50	45	53	55
U. Dayton	340	12	8	8	194	0	0	0	108
C. New Jersey	342	27	ne	54	184	24	ne	48	118
Colby C.	343	420	330	302	180	359	260	225	143
Texas A&M U.-Kingsville	343	48	148	163	180	0	83	108	87
Macalester C.	345	447	296	206	179	256	272	118	163
Bowdoin C.	346	193	79	77	177	162	71	43	158
Indiana U. Pennsylvania	347	68	143	207	175	28	46	93	84
Augusta U.	348	43	48	29	172	0	0	0	0
Ithaca C.	348	ne	ne	76	172	ne	ne	70	101
Youngstown State U.	350	44	101	182	171	26	87	166	158
Harvey Mudd C.	351	803	217	259	169	584	88	201	109
Texas Christian U.	352	649	306	377	168	158	106	213	167
New Mexico Institute of Mining and Technology	353	624	450	287	167	615	450	287	167
CUNY, John Jay C. of Criminal Justice	354	329	158	220	165	249	158	167	165
C. Wooster	355	554	389	160	164	379	151	91	97
Davidson C.	356	294	282	154	162	215	225	112	138
West Chester U. Pennsylvania	356	229	262	255	162	0	62	35	56
Winthrop U.	358	254	287	150	161	95	100	64	95
Fisk U.	359	108	0	0	160	108	0	0	158
Augustana U.	360	201	158	ne	159	189	153	ne	159
California State U., Fullerton	360	414	213	166	159	404	7	0	6
Fort Hays State U.	360	ne	73	72	159	ne	32	64	154
Oberlin C.	363	381	222	213	157	262	167	71	58
SUNY, C. of Environmental Science and Forestry	364	133	243	94	155	14	42	47	115
Williams C.	365	155	165	156	152	53	0	0	0
U.S. Military Academy	366	0	0	419	150	0	0	419	150
Union C., Schenectady	366	41	408	38	150	17	352	21	96
U. Central Oklahoma	368	87	140	139	146	87	140	139	146
U. Wisconsin-La Crosse	369	242	249	228	144	84	69	54	0
U. Ana G. Mendez, Gurabo	370	362	1,007	362	142	144	29	25	29
Southeastern Louisiana U.	371	216	81	213	140	54	28	135	107
U. Houston-Downtown	372	73	77	72	139	0	0	0	65
Tuskegee U.	373	229	131	134	134	229	131	134	134

TABLE 50

**Total and federally financed higher education R&D expenditures in chemistry, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Southern U. and A&M C., Baton Rouge	374	592	451	101	133	310	73	39	65
Azusa Pacific U.	375	250	98	137	129	44	0	12	9
U. North Carolina, Wilmington	376	388	458	208	126	312	374	169	110
U. of St. Thomas (MN)	376	187	338	94	126	49	42	49	58
Appalachian State U.	378	162	108	226	124	147	78	74	5
Doane U.	379	251	121	123	i 119	i 166	60	62	i 67
William Paterson U.	380	153	229	267	116	0	0	0	0
Manhattan C.	381	ne	55	71	112	ne	55	71	112
Pomona C.	381	391	304	446	112	158	132	212	64
Texas A&M International U.	381	4	1	0	112	0	0	0	64
Trinity C., Hartford	381	275	154	46	112	129	92	5	86
Purdue U., Northwest	385	305	115	207	110	284	111	168	102
U. Minnesota, Morris	386	ne	14	94	108	ne	0	0	0
Colorado C.	387	183	83	38	107	0	0	0	0
Saint Joseph's U.	388	194	208	128	105	0	0	0	0
Clafin U.	389	600	501	208	104	600	501	208	104
Albany State U.	390	137	150	54	102	137	150	54	102
Catholic U. of America	391	662	551	659	101	540	481	523	84
Pepperdine U.	391	99	77	54	101	0	0	0	0
Wheaton C., Wheaton	393	37	101	57	98	6	0	0	19
Eastern Michigan U.	394	150	176	410	97	0	0	1	28
U. of the Pacific	395	114	257	144	91	114	257	144	91
U. Alaska, Fairbanks	396	11	75	57	87	11	48	57	87
U. North Carolina, Asheville	397	201	13	180	86	190	0	146	33
Willamette U.	397	225	271	161	86	145	149	62	4
Purdue U., Fort Wayne	399	51	101	123	82	51	101	123	82
U. Northern Colorado	399	176	71	53	82	0	0	0	61
U. Puerto Rico, Humacao	401	313	157	200	81	287	104	192	71
U. of the Virgin Islands	402	0	0	159	80	0	0	159	80
St. Olaf C.	403	186	79	75	78	69	0	6	3
Fort Valley State U.	404	88	104	72	76	88	104	72	76
Saint John's U.	404	106	104	i 99	i 76	i 0	0	i 0	i 0
C. of Saint Benedict	406	140	i 137	i 130	i 75	22	21	i 20	i 6
Lafayette C.	406	177	176	156	75	152	151	94	37

TABLE 50

**Total and federally financed higher education R&D expenditures in chemistry, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Providence C.	408	175	93	370	74	94	71	352	42
Hamilton C.	409	73	82	164	73	0	0	0	0
California State U., Stanislaus	410	17	20	12	72	0	0	0	60
SUNY, C. Plattsburgh	410	88	7	0	72	72	0	0	66
Suffolk U.	412	ne	ne	97	69	ne	ne	97	69
U. of Mary Washington	413	4	32	57	68	4	32	49	50
Central Connecticut State U.	414	ne	101	78	66	ne	78	60	41
Lamar U.	414	126	128	54	66	2	73	20	0
SUNY, C. Brockport	414	0	33	69	66	0	0	39	19
U. Puerto Rico, Cayey	417	41	83	155	65	41	83	137	65
Humboldt State U.	418	3	48	39	64	0	0	0	0
California State U., Sacramento	419	156	183	89	62	92	102	44	5
CUNY, York C.	420	ne	448	331	61	ne	437	329	61
Pennsylvania State U., Behrend	420	49	76	22	61	15	17	16	26
Eastern Kentucky U.	422	65	0	55	60	62	0	26	51
East Tennessee State U.	423	35 i	78 i	91 i	59 i	11	11	27	1
Tennessee State U.	423	14	19	57	59 i	14	1	39	41 i
C. Charleston	425	245	200	131	57	103	154	88	26
California State U., Monterey Bay	425	0	65	0	57	0	65	0	57
U. Colorado Colorado Springs	425	0	0	0	57	0	0	0	57
Vassar C.	425	175 i	38	18	57	175 i	38	13	49
Claremont McKenna C.	429	40	144	85	56	39	140	85	56
U. San Francisco	429	73	55	45	56	0	0	0	0
Mercyhurst U.	431	ne	55 i	57 i	55 i	ne	24 i	25 i	26 i
U. Wisconsin-Green Bay	431	42 i	63 i	62 i	55 i	19 i	30 i	33 i	30 i
Kettering U.	433	133	149	115	53	84	89	64	0
Central Michigan U.	434	192	257	31	52	86	68	0	0
Citadel Military C. South Carolina	434	ne	ne	23	52	ne	ne	0	0
Fairfield U.	434	14	297	84	52	14	297	41	7
Western Illinois U.	434	12	38	39	52	0	17	21	47
U. New Haven	438	178	264	122	49	1	1	0	0
U. Wisconsin-River Falls	439	103	ne	155	48	103	ne	84	24
DePaul U.	440	58	42	38	47	0	1	2	24
U. Texas, Tyler	441	33	44	33	46	0	0	0	0

TABLE 50

**Total and federally financed higher education R&D expenditures in chemistry, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
U. Wisconsin-Stevens Point	442	48 i	55 i	62	45	30 i	36 i	42	7
Western Carolina U.	442	196	342	253	45	144	172	118	0
U. Wisconsin-Platteville	444	ne	99 i	101 i	43 i	ne	36 i	36 i	21 i
Florida Polytechnic U.	445	ne	0	17	42	ne	0	0	0
Niagara U.	445	145	78	54	42	0	0	0	0
Rutgers, State U. New Jersey, Camden	447	19	74	322	39	2	0	0	0
Elon U.	448	38	40	39	38	0	0	0	0
Southern Connecticut State U.	448	8	98	118	38	0	0	0	0
Saginaw Valley State U.	450	42	300	35	36 i	25	294	21	22 i
Savannah State U.	451	63	63	0	34	59	63	0	34
Biola U.	452	34 i	33 i	35 i	33 i	21 i	20 i	21 i	21 i
California State U., San Marcos	452	0	118	61	33	0	118	61	33
Indiana State U.	452	42	62	39	33	42	62	39	30
Indiana U., South Bend	452	0	ne	ne	33	0	ne	ne	12
U. Hawaii, Hilo	456	4	17	179	32	0	12	178	31
Hobart and William Smith Colleges	457	ne	92	30	31	ne	17	0	0
Norfolk State U.	457	404	508	76	31	404	508	76	31
Monmouth U.	459	ne	18	19	29	ne	0	0	0
Mount Holyoke C.	460	263	210	114	28	260	183	111	18
Stephen F. Austin State U.	460	91	85	33	28	0	0	0	0
Missouri State U.	462	24	7	22	27	24	7	20	0
U. Houston-Clear Lake	462	38	44	26	27	0	0	0	0
Christopher Newport U.	464	18	102	63	26	9	64	53	20
Pittsburg State U.	465	21	28	19	24	21	28	19	24
Florida A&M U.	466	1,628	25	39	23	1,628	21	39	23
U. Tennessee, Chattanooga	467	10	35	52	22	0	0	0	0
Coastal Carolina U.	468	0	0	0	20	0	0	0	0
U. Illinois, Springfield	468	0	12	14	20	0	12	12	15
U. Virginia's C. Wise	470	ne	ne	ne	18	ne	ne	ne	18
Minnesota State U., Mankato	471	69	51	48	17	55	18	0	0
U. Louisiana, Monroe	471	50	75	55	17	26	67	55	10
U. New England	471	27	23	20	17	0	0	0	0
U. Southern Maine	471	36	11	0	17	21	11	0	0
Central State U.	475	83	63	6	16	83	63	6	16



TABLE 50

**Total and federally financed higher education R&D expenditures in chemistry, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
California State U., Chico	476	48	30	26	10	18	16	6	4
Colorado State U., Pueblo	477	ne	6	18	8	ne	0	0	0
Northern Michigan U.	478	26	24	9	7	0	0	0	0
Hofstra U.	479	8	6	4	6	0	0	0	0
U. Detroit Mercy	479	11	13	5	6	0	0	0	0
U. Michigan, Flint	479	22	26	21	6	0	0	0	0
U. South Carolina, Aiken	479	108	0	51	6	0	0	8	4
CUNY, New York City C. of Technology	483	13	1	0	5	10	1	0	5
Eastern Connecticut State U.	484	6	10	0	4	0	0	0	0
St. Cloud State U.	484	1	1	3	4	0	0	0	0
U. Nebraska, Omaha	486	34	2	2	3	15	0	0	0
Roger Williams U.	487	234	15	3	2	90	0	0	0
Seattle U.	487	63	84	86	2	8	0	0	0
Lawrence Technological U.	489	0	9	0	1	0	0	0	0
All other surveyed institutions	-	18,187	5,823	3,147	0	11,692	4,407	2,519	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

<sup>a</sup> Johns Hopkins University includes the Applied Physics Laboratory (APL), with \$12,600 thousand imputed for total and \$12,263 thousand reported for federally financed R&D expenditures in chemistry in FY 2021. Total expenditures by field for Johns Hopkins University are flagged as imputed because APL was unable to distribute a portion of institutionally funded R&D by field.

<sup>b</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

<sup>c</sup> The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

<sup>d</sup> The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

<sup>e</sup> The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

**Note(s):**

Institutions reporting zero expenditures in ranked total for FY 2021 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 51

**Total and federally financed higher education R&D expenditures in physics, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
All institutions	-	2,206,620	2,327,034	2,434,432	2,463,331	1,570,701	1,657,750	1,735,972	1,767,740
Johns Hopkins U. <sup>a</sup>	1	150,439 i	183,818 i	232,583 i	223,991 i	143,918	176,299	222,997	215,073
Michigan State U.	2	158,507	140,832	142,473	154,887	105,035	89,321	92,899	113,913
California Institute of Technology	3	83,649	84,599	106,237	100,714 i	71,571	72,782	92,720	78,185
U. Rochester	4	88,866	106,277	95,695	93,851	84,512	102,405	90,436	88,161
U. Colorado Boulder	5	54,531	66,848	69,967	70,498	49,962	62,321	64,624	64,351
Harvard U.	6	36,953	43,696	49,146	59,910	23,294	25,671	29,457	31,258
Massachusetts Institute of Technology	7	44,041	43,880	48,695	57,207	34,614	33,496	38,758	45,000
U. California, San Diego	8	44,584	52,798	66,169	56,983	24,028	25,547	32,298	32,711
Cornell U.	9	47,530	50,551	48,658	53,686	37,320	39,904	37,180	43,263
Stanford U.	10	35,411	49,051	48,826	47,667	23,263	35,992	32,816	32,299
U. Maryland <sup>b</sup>	11	na	47,394	46,013	42,274	na	34,664	29,752	31,173
Florida State U.	12	43,927	39,877	41,870	38,309	26,286	23,281	26,260	22,154
Princeton U.	13	34,551	38,060	40,161	35,249	25,073	25,639	28,224	23,204
U. Illinois, Urbana-Champaign	14	25,760	24,104	27,506	33,961	18,780	19,128	20,032	22,415
U. California, Berkeley	15	24,630	29,261	32,085	33,755	16,384	17,665	17,480	18,480
U. Central Florida	16	23,077	26,198	29,759	33,116	16,823	16,665	16,961	19,270
U. California, Los Angeles	17	35,056	34,460	33,263	30,227	23,630	23,350	22,591	20,068
Yale U.	18	32,428	32,019	27,884	29,911	19,468	17,859	16,547	16,119
U. Michigan, Ann Arbor	19	24,822	24,752	23,596	27,204	15,236	14,747	13,625	16,183
SUNY, Stony Brook U.	20	27,815	27,697	26,615	26,964	19,335	21,289	19,742	20,764
U. California, Santa Barbara	21	17,663	16,998	23,427	26,695	10,856	8,294	13,661	16,106
U. Iowa	22	19,055	18,463	17,099	26,404	17,902	16,600	14,623	24,381
U. Wisconsin-Madison	23	24,980	27,643	24,984	26,135	19,691	19,614	17,822	18,846
U. Texas, Austin	24	26,391	23,553	26,463	23,011	14,929	13,519	18,638	14,953
U. Pennsylvania	25	23,102	23,806	21,371	20,728	16,380	15,939	14,450	14,568
Pennsylvania State U., University Park and Hershey Medical Center	26	26,179	26,674	26,281	20,314	17,984	18,349	16,969	17,473
Ohio State U.	27	19,057	22,458	21,007	19,719	15,524	17,794	17,224	16,003
U. California, Irvine	28	16,589	18,441	18,770	19,684	9,934	11,538	10,987	11,775
Northwestern U.	29	18,337	17,918	15,418	19,296	8,597	10,063	8,508	8,746
U. Minnesota, Twin Cities	30	19,371	22,848	19,948	19,162	16,100	18,504	16,693	15,816
U. Washington, Seattle	31	16,964	19,123	19,281	18,479	15,446	17,410	17,789	17,655
U. Texas M. D. Anderson Cancer Center	32	15,858	19,017	19,060	17,572	6,607	7,922	8,114	8,179
Columbia U. in the City of New York	33	10,285	11,102	12,331	17,403	8,485	8,586	9,642	15,103

TABLE 51

**Total and federally financed higher education R&D expenditures in physics, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
U. Notre Dame	34	16,252	16,720	15,639	16,473	10,939	11,107	10,607	10,256
Purdue U., West Lafayette	35	14,819	15,318	19,417	16,391	8,549	8,498	9,235	10,082
Texas A&M U., College Station and Health Science Center	36	19,108	21,835	17,848	16,238	9,529	12,329	9,751	10,514
Air Force Institute of Technology	37	5,871	8,478	7,796	15,999	4,241	4,457	4,973	8,037
U. Chicago	38	13,301	12,617	12,688	15,752	11,582	10,463	10,586	13,574
Northeastern U.	39	10,413	11,698	12,711	15,248	7,634	7,954	8,026	9,014
Boston U.	40	14,384	14,758	14,002	15,143	9,806	9,580	9,963	10,572
Arizona State U.	41	12,359	11,934	12,338	14,980	6,077	5,865	6,395	8,833
Iowa State U.	42	16,452	16,586	14,842	14,746	10,735	10,808	9,760	11,324
U. Nebraska, Lincoln	43	15,119	15,908	13,795	14,617	10,574	11,136	9,346	8,578
Rice U.	44	14,060	16,234	16,107	14,466	8,839	9,712	9,200	8,273
Dartmouth C. and Dartmouth Hitchcock Medical Center	45	10,542	10,632	12,021	14,279	3,205	3,832	4,677	5,301
U. Tennessee, Knoxville <sup>c</sup>	46	15,826	17,897	14,423	14,277	10,820	13,025	8,951	9,105
Catholic U. of America	47	9,434	11,192	12,213	13,988	9,090	10,760	11,952	13,555
Vanderbilt U. and Vanderbilt U. Medical Center	48	14,239	15,954	14,458	13,676	7,143	8,777	8,139	6,510
Rutgers, State U. New Jersey, New Brunswick	49	10,341	11,380	12,903	13,193	7,595	7,578	6,212	6,736
U. Florida	50	10,474	11,707	13,128	13,180	6,922	8,198	9,258	9,375
Louisiana State U., Baton Rouge	51	14,148	14,926	13,851	12,979	8,197	8,553	9,293	8,305
U. Massachusetts, Lowell	52	10,236	13,871	14,669	12,753	6,782	7,738	10,138	9,661
New York U.	53	11,661	11,615	12,945	12,261	7,093	7,180	6,927	7,483
North Carolina State U.	54	10,671	11,957	11,615	12,217	7,424	7,674	7,012	7,912
Indiana U., Bloomington	55	7,165	10,702	12,816	11,417	7,148	7,561	9,644	8,075
Georgia Institute of Technology	56	11,087	12,427	11,892	11,359	6,198	7,871	7,182	6,788
Carnegie Mellon U.	57	9,912	9,879	11,458	11,111	5,648	5,753	6,254	6,000
Washington State U.	58	17,436	16,288	12,549	10,978	6,667	7,330	6,837	8,560
U. Virginia, Charlottesville	59	10,786	11,930	12,224	10,671	8,255	8,914	10,220	8,967
Duke U.	60	10,029	10,465	12,587	10,595	9,104	9,595	10,780	9,760
U. Texas, Arlington	61	10,412	9,378	10,782	10,373	5,879	6,027	6,615	6,574
U. North Carolina, Chapel Hill	62	8,318	8,412	10,472	10,003	5,441	6,000	8,065	7,344
Montana State U., Bozeman	63	4,734	7,183	9,194	9,940	4,223	4,393	5,188	7,261
Syracuse U.	64	9,237	11,440	9,629	9,184	6,218	7,811	5,770	6,037
Auburn U., Auburn	65	7,303	6,710	7,842	9,147	3,557	4,225	5,012	4,549
U. Arizona	66	6,151	8,970	9,230	9,072	3,972	5,354	5,464	5,685
U. California, Davis	67	10,035	10,672	10,195	9,032	6,947	7,553	7,160	6,595

TABLE 51

**Total and federally financed higher education R&D expenditures in physics, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
U. Utah	68	0	0	0	8,945	0	0	0	5,381
Kansas State U.	69	8,725	8,878	8,209	8,759	6,066	6,186	6,007	6,616
U. Pittsburgh, Pittsburgh	70	9,209	9,772	8,507	8,706	6,891	6,844	6,176	5,927
Brown U.	71	9,766	7,636	7,968	8,542	4,482	4,358	3,718	5,221
U. Illinois, Chicago	72	4,949	5,792	7,884	8,392	3,690	4,579	5,874	6,815
U. California, Riverside	73	7,903	6,917	7,777	8,003	6,997	5,889	6,880	6,534
U. Massachusetts, Amherst	74	7,256	7,403	8,927	7,995	3,763	4,709	4,976	5,267
Virginia Polytechnic Institute and State U.	75	6,511	7,909	7,831	7,913	3,627	4,538	4,788	5,196
Brandeis U.	76	7,129	7,551	9,118	7,631	4,919	5,958	5,523	4,522
U. Mississippi	77	7,349	8,361	7,658	7,568	4,968	5,816	5,768	5,690
Texas Tech U.	78	7,096	6,641	7,419	7,553	1,194	1,656	1,215	1,141
Georgetown U.	79	3,119	3,921	5,833	7,444	1,955	2,939	4,763	6,119
U. Houston	80	5,168	7,839	8,637	7,385	2,845	3,366	2,775	2,809
U. California, Santa Cruz	81	7,803	7,057	6,991	6,919	5,071	5,048	4,865	4,666
U. Toledo	82	5,693	4,115	4,645	6,700	2,781	2,724	3,237	4,768
U. Oklahoma, Norman and Health Science Center	83	4,081	3,526	6,397	6,446	3,088	2,731	3,054	2,907
Temple U.	84	5,366	5,717	6,708	6,242	3,696	4,069	3,720	3,387
Clemson U.	85	5,148	5,861	5,747	5,915	3,171	3,703	3,820	4,288
U. Southern California	86	2,735	4,410	5,508	5,759	2,715	3,439	4,861	5,061
Washington U., Saint Louis	87	6,274	5,476	5,060	5,680	5,461	4,827	4,606	5,255
U. Maine	88	4,442	5,457	5,267	5,645	1,633	1,844	1,648	2,161
William & Mary	89	4,520	5,788	5,280	5,491	3,600	3,752	4,049	3,774
U. Connecticut	90	5,973	6,330	6,034	5,482	3,604	3,691	4,609	4,030
Colorado School of Mines	91	3,128	4,841	5,398	5,336	2,689	4,336	5,059	4,957
Florida International U.	92	6,587	5,911	8,185	5,218	3,399	3,113	3,976	2,345
West Virginia U.	93	10,631	8,707	7,810	4,887	6,494	6,067	5,765	3,757
U. Nevada, Las Vegas	94	4,989	3,765	3,807	4,851	3,504	1,321	982	1,428
Emory U.	95	2,773	2,882	3,433	4,835	1,844	2,262	2,729	2,984
Georgia State U.	96	6,368	4,948	5,727	4,705	4,558	4,548	5,143	2,893
Old Dominion U.	97	3,875	4,709	4,731	4,551	3,276	3,606	3,510	3,352
U. Texas, Dallas	98	3,845	2,216	5,219	4,550	1,675	1,749	2,914	2,588
U. Delaware	99	5,605	5,499	5,429	4,523	4,747	4,630	4,452	3,576
U. Texas, San Antonio	100	3,086	3,774	4,254	4,510	1,858	2,463	3,017	3,090
CUNY, Advanced Science Research Center	101	329	1,640	2,778	4,490	232	1,252	2,096	3,559

TABLE 51

**Total and federally financed higher education R&D expenditures in physics, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Oklahoma State U., Stillwater	102	3,429	3,654	4,604	4,483	875	1,164	1,357	1,461
U. Hawaii, Manoa	103	3,897	4,040	4,021	4,291	3,677	3,914	3,792	3,763
Wayne State U.	104	5,025	4,317	3,654	4,254	3,666	2,614	2,469	3,071
Abilene Christian U.	105	ne	ne	ne	4,209	ne	ne	ne	712
New Jersey Institute of Technology	106	4,059	4,090	4,366	4,153	1,430	1,511	1,542	1,640
SUNY, Binghamton U.	107	6,720	3,930	6,624	4,123	1,096	1,121	2,318	1,619
Ohio U.	108	4,602	3,859	3,971	4,088	2,373	2,386	2,885	3,070
Naval Postgraduate School	109	4,310	6,126	6,244	4,070	3,074	5,302	6,178	3,899
U. New Mexico	110	4,344	3,989	4,272	4,044	3,967	3,620	3,846	3,524
U. Alabama, Tuscaloosa	111	3,078	2,437	3,530	4,005	2,575	2,287	2,568	2,558
Northern Illinois U.	112	4,988	4,823	4,024	3,875	3,136	3,311	2,567	2,460
George Washington U.	113	3,699	4,108	4,334	3,752	2,771	3,354	3,597	2,898
U. Miami	114	4,079	4,465	3,713	3,682	3,451	4,041	3,161	3,353
Mississippi State U.	115	4,773	4,710	3,475	3,675	2,737	2,424	1,138	1,022
U. South Florida <sup>d</sup>	116	5,096	4,440	4,213	3,623	2,761	2,225	2,114	1,867
American U.	117	2,245	3,303	3,867	3,614	1,768	2,732	3,205	2,976
Rochester Institute of Technology	118	3,316	3,369	3,504	3,585	2,468	2,219	2,160	2,165
CUNY, City C.	119	4,213	3,207	3,361	3,553	3,260	2,179	2,626	3,228
U. Oregon	120	5,695	7,523	7,248	3,462	4,294	4,467	4,826	2,937
U. Arkansas, Fayetteville	121	3,575	3,370	4,313	3,443	1,747	1,765	2,292	2,070
U. Louisiana, Lafayette	122	2,146	460	1,283	3,442	159	22	44	2,011
Hampton U.	123	4,129	4,044	3,142	3,409	4,129	4,044	3,142	3,409
U. Wisconsin-Milwaukee	124	10,329	8,327	6,526	3,324	8,049	6,609	4,260	1,985
Boston C.	125	1,783	2,384	1,814	3,320	1,470	1,809	1,471	1,997
SUNY, U. Buffalo	126	4,227	4,236	3,526	3,283	2,949	2,998	2,412	2,319
U. Kansas	127	2,578	2,269	2,108	3,264	2,424	2,233	1,983	2,365
U. Missouri, Columbia	128	9,092	6,020	3,443	3,221	7,613	2,544	2,486	2,070
U. North Texas, Denton	129	2,044	3,517	3,689	3,205	1,240	1,445	1,222	1,099
U. Cincinnati	130	4,352	3,673	3,078	3,202	2,643	2,483	2,036	2,328
U. Kentucky	131	2,366	2,937	3,751	3,124	1,928	2,534	3,116	2,434
Illinois Institute of Technology	132	3,188	2,772	2,476	3,110	2,897	2,453	2,125	2,613
U. South Carolina, Columbia	133	2,941	2,203	2,806	3,050	2,335	1,774	2,264	1,467
Colorado State U., Fort Collins	134	2,772	2,837	2,855	2,956	2,649	2,140	2,101	2,460
Baylor U.	135	2,585	2,866	2,968	2,955	1,085	1,213	1,136	1,158

TABLE 51

**Total and federally financed higher education R&D expenditures in physics, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
U. Nevada, Reno	136	4,126	3,942	4,235	2,947	2,695	2,118	2,590	2,399
Rensselaer Polytechnic Institute	137	4,705	4,936	2,554	2,883	2,699	1,913	1,151	1,240
U. Maryland, Baltimore County	138	2,037	2,742	2,753	2,869	1,654	2,261	2,300	2,570
Oakland U.	139	890	2,343	2,300	2,819	743	933	886	1,208
U. Texas, El Paso	140	1,385	1,068	2,155	2,801	731	648	1,024	1,559
Tulane U.	141	3,866	3,327	2,986	2,791	2,218	1,594	1,971	1,748
U. New Hampshire	142	1,423	1,717	2,672	2,786	900	1,119	2,283	1,461
North Carolina Central U.	143	2,850	1,881	2,878	2,601	2,850	1,881	2,834	2,356
Florida Institute of Technology	144	759	650	1,364	2,513	504	428	1,193	1,887
Southern Methodist U.	145	2,237	1,900	2,378	2,504	2,050	1,701	1,934	2,266
U. Georgia	146	3,331	1,053	2,701	2,499	538	722	792	516
Kent State U.	147	2,636	2,205	2,591	2,378	1,670	1,355	1,617	1,282
U. California, Merced	148	2,649	2,190	3,101	2,344	1,699	1,387	2,119	871
U. Alabama, Birmingham	149	2,675	2,419	2,491	2,339	2,340	2,140	2,214	2,093
Brigham Young U., Provo	150	1,963	2,696	2,034	2,337	1,851	2,216	1,676	1,927
U. Alabama, Huntsville	151	1,656	1,724	1,767	2,284	869	741	886	1,172
Embry-Riddle Aeronautical U.	152	631	724	1,787	2,244	265	490	902	873
Worcester Polytechnic Institute	153	1,061	3,269	1,351	2,239	551	525	582	1,136
Michigan Technological U.	154	1,930	2,215	2,169	2,218	299	440	640	553
Utah State U.	155	1,919	2,318	2,462	2,172	1,294	1,586	1,661	1,421
SUNY, U. Albany	156	1,911	2,156	2,427	1,977	224	279	533	609
U. Puerto Rico, Rio Piedras	157	1,930	2,639	1,653	1,919	1,197	1,587	1,067	1,454
Missouri U. of Science and Technology	158	1,019	1,017	3,792	1,873	978	620	2,758	883
Tufts U.	159	467	234	1,621	1,872	467	216	1,587	1,798
U.S. Air Force Academy	160	844	2,603	2,714	1,846	249	2,603	2,714	1,796
California Polytechnic State U., San Luis Obispo	161	1,536	2,783	2,494	1,757	572	926	937	658
U. North Carolina, Charlotte	161	2,282	2,804	2,742	1,757	1,454	1,770	1,901	1,310
Case Western Reserve U.	163	2,799	2,476	1,767	1,702	2,405	2,170	1,610	1,476
U. South Dakota	164	1,220	2,089	1,555	1,691	456	1,313	976	1,028
New Mexico State U.	165	1,656	1,762	1,386	1,675	1,493	1,532	1,132	1,322
Central Michigan U.	166	2,121	2,527	2,366	1,651	1,527	2,168	1,943	1,627
San Diego State U.	167	1,344	1,422	1,561	1,594	408	507	440	517
Lehigh U.	168	1,897	1,195	1,348	1,577	1,096	845	868	1,102
Oregon State U.	169	906	1,204	1,310	1,564	812	1,112	1,304	1,554

TABLE 51

**Total and federally financed higher education R&D expenditures in physics, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
California State U., Northridge	170	1,865	2,397	2,567	1,525	1,788	2,312	2,373	1,508
Stevens Institute of Technology	171	1,469	2,045	1,824	1,518	1,297	1,960	1,648	1,242
U. Massachusetts, Boston	172	1,021	1,380	1,214	1,479	502	552	533	624
Virginia Commonwealth U.	173	1,320	1,086	1,249	1,379	1,190	983	901	992
Delaware State U.	174	2,434	3,716	1,313	1,340	1,567	1,158	873	1,003
Drexel U.	175	2,312	1,663	258	1,339	1,733	1,303	0	1,119
U. California, San Francisco	176	349	370	917	1,325	0	4	0	1
Florida A&M U.	177	4,455	3,463	1,371	1,323	4,254	3,337	1,327	1,321
Rockefeller U.	178	2,870	2,607	2,464	1,305	595	350	583	348
San Jose State U.	179	397	461	626	1,301	391	455	615	822
Texas State U.	180	1,735	1,421	735	1,251	1,663	1,365	734	1,127
U. Denver	181	1,632	1,147	1,456	1,230	1,065	641	795	598
California State U., East Bay	182	ne	ne	584	1,177	ne	ne	221	744
Jackson State U.	183	1,637	1,586	1,451	1,160	1,417	1,446	1,314	1,011
South Dakota School of Mines and Technology	184	1,163	1,098	693	1,143	1,003	1,098	693	865
U. Vermont	185	912	793	2,441	1,104	496	646	1,383	616
Wake Forest U.	186	1,337	1,680	1,366	1,080	1,278	1,344	1,103	936
Clark U.	187	421	350	1,054	1,069	245	180	586	643
Louisiana Tech U.	188	1,038	1,034	980	1,055	362	317	252	232
Fisk U.	189	89	0	200	1,022	89	0	200	904
CUNY, Hunter C.	190	1,285	1,625	1,194	1,015	800	1,186	973	954
Clarkson U.	191	283	198	388	1,005	196	148	244	139
U.S. Naval Academy	192	950	1,468	1,217	1,001	791	1,370	1,193	897
U. of the Virgin Islands	193	0	0	749	989	0	0	749	989
New Mexico Institute of Mining and Technology	194	821	1,520	1,074	984	808	1,478	1,061	972
Wright State U.	195	2,045	1,373	1,250	975	1,511	1,179	1,014	847
North Dakota State U.	196	482	764	732	970	382	288	197	514
Creighton U.	197	644	957	837	951	326	576	529	571
SUNY, Geneseo	198	869	843	683	928	592	663	542	632
San Francisco State U.	199	1,169	1,300	883	927	769	958	493	498
North Carolina Agricultural and Technical State U.	200	891	1,263	1,116	910	855	1,211	1,049	877
Wesleyan U.	201	1,030	1,366	1,130	909	805	1,037	791	597
U. Missouri, Kansas City	202	1,637	1,368	894	897	1,075	1,019	726	667
Idaho State U.	203	4,072	3,126	742	885	2,413	1,686	394	403

TABLE 51

**Total and federally financed higher education R&D expenditures in physics, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
U. San Diego	204	292	573	918	879	172	353	496	402
Northern Arizona U.	205	324	538	941	858	89	212	352	373
Florida Atlantic U.	206	472	560	991	849	236	285	481	404
U. North Dakota	207	813	887	1,123	812	78	96	129	31
U. Texas Rio Grande Valley	208	330	285	595	807	317	283	594	683
Bowling Green State U.	209	722	593	849	784	253	233	590	649
Texas A&M U.-Commerce	210	898	643	810	783	754	531	688	678
U. Memphis	211	474	578	791	770	182	230	353	341
Rowan U.	212	496	576	276	752	344	465	194	695
U. New Orleans	213	611	757	803	749	508	605	551	469
Norfolk State U.	214	396	311	650	732	396	311	650	732
Howard U.	215	601	719	762	720	525	559	612	583
U. Massachusetts, Dartmouth	216	212	441	499	716	39	64	75	41
Christopher Newport U.	217	368	656	766	705	344	470	518	526
U. Louisville	218	379	291	426	702	119	105	57	81
Prairie View A&M U.	219	1,517	783	932	692	248	225	97	185
U. Washington, Bothell	220	0	256	156	681	0	215	156	681
George Mason U.	221	487	445	842	646	408	311	700	466
East Carolina U.	222	596	591	814	621	214	133	305	401
Hope C.	223	398	614	560	615	343	598	444	524
U. Central Oklahoma	224	631	561	557	583	519	517	512	537
Amherst C.	225	809	1,312	705	570	590	1,103	603	434
U. Wyoming	226	1,385	892	679	549	1,118	835	652	511
CUNY, Graduate Center	227	0	353	630	547	0	330	435	518
Southern Illinois U., Carbondale	228	624	378	327	537	299	269	243	257
Western Michigan U. and Homer Stryker M.D. School of Medicine	228	679	571	660	537	530	465	509	442
Southern Illinois U., Edwardsville	230	694	84	0	525	217	84	0	122
James Madison U.	231	120	126	298	516	120	126	182	266
U. Dayton	232	1,030	539	438	511	1,013	525	428	507
Tennessee Technological U.	233	671	635	594	504	543	544	488	402
CUNY, Lehman C.	234	360	129	409	495	360	0	409	413
Villanova U.	235	255	436	520	492	123	239	306	273
Indiana U.-Purdue U., Indianapolis	236	205	418	507	486	165	370	455	486
Clark Atlanta U.	237	0	461	671	477	0	455	662	456



TABLE 51

**Total and federally financed higher education R&D expenditures in physics, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Bryn Mawr C.	238	775	635	462	462	306	335	55	257
Southern U. and A&M C., Baton Rouge	239	964	716	634	450	822	573	427	227
California State U., Fullerton	240	465	392	481	448	454	315	396	316
Western Kentucky U.	241	955	553	425	433	365	349	289	316
Cleveland State U.	242	555	639	786	427	174	277	409	191
Marquette U.	242	150	315	320	427	19	83	225	291
CUNY, Queens C.	244	648	553	458	423	409	295	171	278
U. Puerto Rico, Humacao	245	620	695	0	419	360	390	0	245
U. Colorado Denver <sup>e</sup>	246	na	na	na	417	na	na	na	417
Georgia Southern U.	247	244	190	120	415	65	34	47	32
California State U., Los Angeles	248	1,162	745	639	395	612	720	622	394
U. Colorado Anschutz Medical Campus <sup>e</sup>	249	na	na	na	391	na	na	na	344
Colgate U.	250	185	133	147	389	100	34	19	82
U. Puerto Rico, Mayaguez	251	1,121	380	367	386	754	287	292	293
Morgan State U.	252	113	34	234	385	113	30	218	374
Rutgers, State U. New Jersey, Newark	253	162	109	408	371	115	32	261	316
Mount Holyoke C.	254	0	0	22	364	0	0	0	342
Harvey Mudd C.	255	126	309	284	362	20	72	96	148
California State U., San Marcos	256	330	225	841	339	330	225	841	336
Alabama A&M U.	257	657	485	331	330	537	380	259	262
CUNY, New York City C. of Technology	258	30	347	212	326	18	314	200	314
Williams C.	259	197	329	315	323	189	189	182	193
Appalachian State U.	260	72	87	115	320	67	73	98	166
Portland State U.	261	90	195	418	317	38	85	344	303
Augustana U.	262	321	200	ne	298	186	148	ne	298
Middle Tennessee State U.	263	7	13	0	292	0	0	0	56
Illinois State U.	264	157	184	229	280	123	145	220	214
Towson U.	265	584	446	191	278	555	401	50	115
Middlebury C.	266	0	114	19	276	0	104	0	276
Macalester C.	267	11	139	171	272	11	50	31	172
CUNY, Baruch C.	268	241	375	276	256	241	330	275	253
U. Central Arkansas	269	266	149	80	255	232	136	76	176
Kennesaw State U.	270	146	189	288	253	42	100	165	160
Yeshiva U.	270	0	0	286	253	0	0	286	253

TABLE 51

**Total and federally financed higher education R&D expenditures in physics, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
U. Wisconsin-La Crosse	272	164	49	188	252	126	44	151	243
Carleton C.	273	78	219	84	250	64	2	84	101
U. Minnesota, Duluth	273	230	237	123	250	188	196	17	175
Indiana U., South Bend	275	219	ne	ne	248	22	ne	ne	244
U. Idaho	276	210	326	245	246	157	188	160	160
CUNY, C. Staten Island	277	701 i	777	542	242	540 i	659	542	239
C. New Jersey	278	278	ne	312	239	278	ne	306	233
Grambling State U.	279	267	129	65	238	137	52	7	50
West Chester U. Pennsylvania	279	391	149	98	238	31	0	0	55
Swarthmore C.	281	442	246	353	236	367	199	139	162
Grinnell C.	282	419	364	58	231	0	0	0	0
U. Montana, Missoula	282	318	244	260	231	295	117	77	117
C. Charleston	284	88	103	135	223	17	49	72	118
Drake U.	285	107	117	ne	221	105	109	ne	200
Smith C.	286	170	173	102	220	157	160	95	212
DePaul U.	287	185	187	267	211	111	111	205	211
Lafayette C.	287	146	183	227	211	146	182	205	194
Missouri State U.	289	93	296	305	208	78	278	289	184
U. Tulsa	290	566	268	163	207	313	181	71	103
Dillard U.	291	785	606	959	205	352	122	646	205
Texas Southern U.	292	0	67	277	199	0	65	188	95
CUNY, Brooklyn C.	293	72	187 i	193	198	28	113 i	118	177
Indiana U. Pennsylvania	294	140	126	218	189	105	82	175	171
South Carolina State U.	294	743 i	175	182 i	189 i	739 i	175	182 i	189 i
U. Colorado Colorado Springs	296	449	203	145	185	105	54	22	25
California State U., Fresno	297	391	341	283	178	366	341	252	178
California State U., Sacramento	298	104	161	207	176	78	97	152	125
Bates C.	299	246	282	155	175	143	141	94	37
Texas Christian U.	300	135	149	299	173	102	0	175	154
Sam Houston State U.	301	37	78	74	170	23	69	72	147
Pomona C.	302	109	40	103	167	20	0	0	139
Loyola U., Chicago	303	17	36	52	166	0	0	0	146
California State U., Chico	304	78	156	150	162	68	150	144	162
U. North Florida	304	225	179	197	162	97	100	88	100

TABLE 51

**Total and federally financed higher education R&D expenditures in physics, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Northern Kentucky U.	306	178	242	270	159	94	174	203	33
Franklin and Marshall C.	307	127	122	78	156	78	54	48	96
Long Island U.	308	60	178	109	151	60	171	51	54
Santa Clara U.	309	503	86	145	148	503	81	130	144
Morehouse C.	310	223	213	216	146	223	213	216	146
U.S. Military Academy	311	120	35	269	144	120	35	269	144
Miami U.	312	124	199	142	142	86	153	116	95
Oberlin C.	313	235	263	270	141	224	255	191	132
Trinity U.	314	79	194	218	139	35	43	61	115
Calvin U.	315	120	137	131	i 137	102	123	118	i 125
Boise State U.	316	219	256	202	131	167	214	94	79
CUNY, York C.	316	ne	123	214	131	ne	123	181	125
Reed C.	318	131	401	129	128	i 6	32	41	43
U. Northern Iowa	319	26	18	86	125	26	14	86	117
Vassar C.	320	501	i 113	232	121	501	i 109	147	89
U. North Carolina, Wilmington	321	90	52	110	118	47	51	110	118
Hobart and William Smith Colleges	322	ne	122	95	116	ne	120	82	99
Occidental C.	323	62	23	103	111	62	23	70	64
Fort Hays State U.	324	ne	82	86	108	ne	20	21	5
Davidson C.	325	0	70	45	107	0	7	45	107
Southeastern Louisiana U.	325	88	25	113	107	54	7	44	38
Black Hills State U.	327	388	363	116	94	370	331	91	94
Gallaudet U.	328	4	0	0	92	0	0	0	92
Mercer U.	328	81	83	87	92	0	0	0	0
Southern Connecticut State U.	330	327	92	13	91	279	53	0	0
U. Richmond	330	189	132	112	91	117	99	98	78
Chapman U.	332	86	55	81	88	0	0	71	86
Marymount U.	332	ne	ne	ne	88	ne	ne	ne	0
Haverford C.	334	54	i 91	i 147	i 87	17	37	49	51
Albion C.	335	72	69	84	86	i 31	50	50	53
South Dakota State U.	335	4	53	33	86	4	53	32	83
Bucknell U.	337	0	167	87	i 85	0	167	87	i 85
Seattle U.	338	139	73	79	84	129	50	58	79
Tougaloo C.	339	0	0	81	81	i 0	0	81	81

TABLE 51

**Total and federally financed higher education R&D expenditures in physics, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
California State U., San Bernardino	340	1	5	0	80	0	0	0	62
Bowdoin C.	341	115	250	131	79	108	89	125	78
Mercyhurst U.	341	ne	74 i	75 i	79 i	ne	47 i	48 i	49 i
Azusa Pacific U.	343	82	81	68	78	0	28	0	0
C. Wooster	344	88	179	75	76 i	57	100	35	37 i
U. Nebraska, Omaha	345	189	167	58	73	179	130	0	47
Eastern Kentucky U.	346	0	0	40	71	0	0	35	64
Coastal Carolina U.	347	0	0	0	68	0	0	0	60
Ball State U.	348	11	22	9	65	0	2	0	21
Colby C.	348	92	67	89	65	68	37	74	41
SUNY, C. Plattsburgh	348	305	369	126	65	261	259	110	41
Eastern Washington U.	351	33	34	66	63	33	34	66	62
Fairfield U.	351	41	81	52	63	41	81	42	50
U. Puerto Rico, Cayey	353	97	57	48	62	4	57	48	62
U. Maryland Center for Environmental Science	354	17	55	72	61	17	55	72	61
U. of the Incarnate Word	355	309	0	0	60	309	0	0	60
Claremont McKenna C.	356	0	0	59	59	0	0	59	59
Dakota State U.	357	8	5	0	58	0	0	0	48
U. Wisconsin-Green Bay	358	45 i	64 i	63 i	57 i	24 i	36 i	39 i	36 i
Indiana State U.	359	126	93	121	56	126	93	121	56
Lewis and Clark C.	360	153	141	598	55	61	108	441	55
Lawrence Technological U.	361	0	0	6	54	0	0	6	48
Biola U.	362	44 i	49 i	50 i	52 i	34 i	38 i	39 i	40 i
St. Edward's U.	362	255	164	55	52	160	150	55	52
Central State U.	364	0	0	0	51	0	0	0	51
Loyola Marymount U.	364	17	54	2	51	0	0	0	0
Austin Peay State U.	366	155	47	13	50	142	36	13	50
Wheaton C., Wheaton	366	56	74	93	50	17	74	66	35
East Tennessee State U.	368	293 i	171 i	227 i	49 i	193	140	188	36
Lamar U.	368	32	24	26	49	21	0	0	49
Salisbury U.	370	17	13	43	48	4	0	0	0
Colorado C.	371	84	19	37	47	60	14	15	4
Ithaca C.	371	ne	ne	22	47	ne	ne	0	13
Duquesne U.	373	195	135	122	46	55	56	43	34

TABLE 51

**Total and federally financed higher education R&D expenditures in physics, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
SUNY, Oswego	373	13	3	23	46	0	0	0	0
U. North Carolina, Greensboro	375	106	125	50	44	106	125	5	0
Skidmore C.	376	12	78	49	42	0	35	41	34
U. of St. Thomas (MN)	376	47	22	61	42	38	19	41	12
California State Polytechnic U., Pomona	378	0	0	89	40	0	0	89	40
Hamilton C.	378	165	116	44	40	3	12	3	8
U. of the Pacific	378	63	53	55	40	63	53	55	40
U. Missouri, Saint Louis	381	139	17	3	39	136	14	0	28
U. Wisconsin-Platteville	381	ne	0 i	0 i	39 i	ne	0 i	0 i	16 i
Texas A&M International U.	383	8	3	38	37	1	0	38	37
U. South Alabama	383	0	0	26	37	0	0	25	35
U. Wisconsin-River Falls	385	33	ne	175	36	0	ne	174	36
Tuskegee U.	386	154	32	32	35	154	32	32	35
U. Hawaii, Hilo	387	383	103	36	34	383	103	36	33
U. of the Sciences Philadelphia	387	61	30	47	34	1	1	25	0
Texas A&M U.-Kingsville	389	33	48	1	33	28	46	0	0
C. of Saint Benedict	390	39	39 i	37 i	32 i	0	0 i	0 i	3 i
Saint John's U.	390	35	35 i	33 i	32 i	0	0 i	0 i	0 i
Saint Joseph's U.	390	90	300	66	32	2	0	0	0
U. Alaska, Anchorage	390	0	0	0	32	0	0	0	32
U. of Mary Washington	390	136	16	5	32	0	16	5	25
U. Wisconsin-Oshkosh	395	23 i	25 i	27 i	30	0 i	0 i	0 i	0
Central Washington U.	396	125	178	109	29	118	170	103	27
Florida Polytechnic U.	396	ne	68	59	29	ne	0	0	0
Clafin U.	398	0	7	50	25	0	7	50	25
Youngstown State U.	398	27	12	23	25	18	5	20	24
Citadel Military C. South Carolina	400	ne	ne	0	24	ne	ne	0	7
Kettering U.	400	370	62	285	24	326	27	241	14
U. Northern Colorado	400	60	19	50	24	26	0	0	0
Wellesley C.	403	76	322	0	23	60	129	0	23
Marshall U.	404	16	5	11	22	2	0	0	12
Elon U.	405	108	49	27	21	0	0	0	0
Pacific U.	405	161	223	41	21	107	169	21	16
U. Rhode Island	407	104	95	100	20	89	85	79	20

TABLE 51

**Total and federally financed higher education R&D expenditures in physics, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Montclair State U.	408	0	0	43	19	0	0	0	0
Arkansas State U., Jonesboro	409	167	66	36	18	120	47	33	14
Milwaukee School of Engineering	410	49	69	85	17	49	69	0	0
Pennsylvania State U., Behrend	410	49	75	22	17	15	16	15	17
U. Wisconsin-Eau Claire	410	0	0	0	17	0	0	0	0
Hofstra U.	413	10	4	2	16	0	0	0	0
U. Nebraska, Kearney	413	7	65	17	16	5	8	9	0
U. Wisconsin-Stevens Point	413	31 i	37 i	43	16	31 i	37 i	43	7
Western Illinois U.	413	0	19	39	16	0	19	39	16
Monmouth U.	417	ne	0	0	15	ne	0	0	15
Humboldt State U.	418	106	115	144	14	69	48	76	7
Eastern Michigan U.	419	22	40	114	13	10	24	31	9
California State U., Stanislaus	420	0	5	5	12	0	0	0	0
Dordt U.	421	ne	ne	ne	11	ne	ne	ne	0
Saint Louis U.	421	105	205	156	11	89	67	67	11
SUNY, C. Brockport	421	4	15	5	11	0	6	2	11
Pepperdine U.	424	6	11	2	10	0	0	0	0
Purdue U., Fort Wayne	424	10	0	3	10	6	0	0	0
Furman U.	426	0	2	12	9	0	2	1	1
St. Cloud State U.	426	18	11	11	9	1	2	3	0
Central Connecticut State U.	428	ne	17	4	7	ne	0	0	0
Murray State U.	429	28	21	20	6	0	0	0	0
U. Michigan, Flint	429	31	14	8	6	19	1	0	0
Union C., Schenectady	429	268	201	110	6	193	170	81	6
Willamette U.	432	117	77	108	5	100	45	4	0
St. Olaf C.	433	30	0	31	4	0	0	7	0
U. San Francisco	433	16	28	27	4	0	0	0	0
Grand Valley State U.	435	35	33	10	3	26	27	9	0
Minnesota State U., Mankato	435	19	0	4	3	19	0	2	0
New York Institute of Technology	435	0	0	0	3	0	0	0	3
Northern Michigan U.	435	0	0	26	3	0	0	0	0
U. South Carolina, Aiken	435	0	0	0	3	0	0	0	0
Rutgers, State U. New Jersey, Camden	440	0	6	32	2	0	0	0	0
La Sierra U.	441	5	1	1	1	0	0	0	0

TABLE 51

**Total and federally financed higher education R&D expenditures in physics, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
St. John's U., New York	441	63	22	76	1	0	0	0	0
Stephen F. Austin State U.	441	3	0	3	1	0	0	0	0
Suffolk U.	441	ne	ne	3	1	ne	ne	0	0
Trinity C., Hartford	441	3	5	4	1	0	0	0	0
U. New Haven	441	4	4	2	1	0	0	0	0
All other surveyed institutions	-	60,807	3,294	1,848	0	42,993	2,086	1,339	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

<sup>a</sup> Johns Hopkins University includes the Applied Physics Laboratory (APL), with \$213,497 thousand imputed for total and \$207,606 thousand reported for federally financed R&D expenditures in physics in FY 2021. Total expenditures by field for Johns Hopkins University are flagged as imputed because APL was unable to distribute a portion of institutionally funded R&D by field.

<sup>b</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

<sup>c</sup> The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

<sup>d</sup> The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

<sup>e</sup> The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

**Note(s):**

Institutions reporting zero expenditures in ranked total for FY 2021 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 52

**Total and federally financed higher education R&D expenditures in psychology, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
All institutions	-	1,259,453	1,326,351	1,360,904	1,326,030	760,316	790,279	808,948	812,660
U. North Carolina, Chapel Hill	1	48,298	46,808	41,741	43,348	29,044	27,887	23,840	24,136
Florida International U.	2	24,056	29,269	34,642	34,345	11,967	14,279	18,163	17,520
Pennsylvania State U., University Park and Hershey Medical Center	3	30,520	38,984	40,599	29,685	19,907	28,216	26,894	26,302
U. Minnesota, Twin Cities	4	37,381	34,448	31,954	29,408	28,334	25,727	24,430	20,743
U. Georgia	5	20,028	24,590	25,773	27,865	10,818	13,105	15,401	17,784
New York U.	6	25,145	30,002	28,468	27,209	21,216	24,420	22,886	22,255
U. Connecticut	7	17,741	18,641	21,553	22,130	9,900	11,570	13,270	13,692
Boston U.	8	21,097	21,872	20,413	22,092	13,174	14,224	12,411	13,117
U. Oregon	9	14,099	15,658	17,505	19,455	11,990	13,714	15,759	16,939
San Jose State U.	10	18,313	20,152	19,670	18,930	17,668	19,428	19,256	18,043
San Diego State U.	11	12,943	14,071	20,222	18,729	8,752	9,047	13,516	12,013
U. California, San Diego	12	20,042	18,932	20,113	18,645	13,691	12,280	13,624	13,008
U. Michigan, Ann Arbor	13	19,865	19,157	20,413	18,255	6,500	6,704	6,479	6,813
U. Texas M. D. Anderson Cancer Center	14	16,080	17,247	16,860	17,939	4,381	3,601	3,013	2,854
Uniformed Services U. of the Health Sciences	15	9,809	10,574	7,672	17,880	7,082	8,150	5,704	13,369
U. California, Los Angeles	16	17,611	17,044	19,087	17,464	12,437	11,104	13,035	10,897
U. Pittsburgh, Pittsburgh	17	15,475	14,154	17,680	16,966	13,351	11,591	14,586	14,484
U. California, Berkeley	18	18,004	17,955	19,329	16,892	7,773	8,122	9,515	9,164
Florida State U.	19	15,647	15,866	17,715	16,829	9,241	9,145	9,763	8,887
Stanford U.	20	18,099	20,091	18,866	16,587	10,006	11,686	10,782	10,678
Vanderbilt U. and Vanderbilt U. Medical Center	21	15,501	15,490	15,682	15,687	7,743	8,303	7,496	7,238
U. Pennsylvania	22	18,872	14,222	15,854	15,250	10,032	7,085	9,563	9,265
U. Illinois, Urbana-Champaign	23	14,814	14,473	16,086	15,063	7,817	8,307	10,020	9,182
U. Miami	24	14,715	11,163	13,896	14,808	7,905	7,514	10,048	10,170
Arizona State U.	25	19,187	18,986	17,645	14,623	11,266	10,145	9,253	7,599
U. Colorado Boulder	26	8,990	13,092	11,982	13,610	8,298	10,775	10,667	11,879
U. Houston	27	14,948	12,218	13,999	13,601	9,627	9,647	9,765	9,784
Indiana U., Bloomington	28	16,086	14,744	13,021	13,211	9,578	7,756	6,822	6,621
Michigan State U.	29	14,454	17,834	16,399	13,042	7,564	9,257	8,921	7,758
U. Florida	30	9,863	10,208	10,922	12,597	6,452	6,412	7,199	9,487
U. Nebraska, Lincoln	31	9,871	10,968	12,761	12,502	4,979	5,671	5,396	7,108
CUNY, Hunter C.	32	14,303	15,915	14,507	12,382	11,143	12,178	12,455	10,035
Dartmouth C. and Dartmouth Hitchcock Medical Center	33	9,185	10,892	13,239	11,670	4,153	6,723	9,013	9,477



TABLE 52

**Total and federally financed higher education R&D expenditures in psychology, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
U. Kansas	34	15,843	17,811	16,106	11,469	5,394	6,360	5,579	8,056
Temple U.	35	12,495	8,832	11,418	11,427	8,863	6,473	6,930	7,574
Cornell U.	36	11,245	12,682	11,516	11,273	4,312	5,101	4,826	4,359
U. Washington, Seattle	37	10,953	9,552	8,802	11,269	8,712	7,693	7,112	9,989
U. Iowa	38	7,115	8,086	8,817	10,981	5,850	6,336	7,028	8,543
U. Wisconsin-Madison	39	10,555	12,498	12,090	10,944	6,198	7,166	7,467	6,299
U. California, Irvine	40	6,983	8,961	11,448	10,898	2,381	2,623	2,909	3,507
SUNY, Binghamton U.	41	10,263	11,007	12,263	10,640	4,395	4,231	3,526	4,331
Carnegie Mellon U.	42	9,386	10,601	11,507	10,631	8,180	9,163	9,841	8,940
Virginia Commonwealth U.	43	11,581	11,299	10,743	10,533	9,523	9,805	9,648	8,904
Yale U.	44	11,953	13,211	9,684	10,453	6,973	6,775	5,983	6,256
U. Texas, Austin	45	11,714	12,544	10,435	10,293	9,322	9,942	7,422	8,001
U. Southern California	46	8,241	9,153	14,234	9,837	6,292	5,846	4,913	4,508
Northeastern U.	47	7,239	7,738	8,863	9,695	5,763	6,361	6,922	7,113
Georgia State U.	48	8,848	7,333	8,952	9,692	3,112	2,741	4,236	3,131
U. Central Florida	49	4,867	5,230	10,357	9,231	1,314	2,320	7,142	5,719
Texas Tech U.	50	10,206	9,824	10,670	8,762	347	912	882	1,232
U. South Carolina, Columbia	51	8,643	8,025	9,768	8,759	6,570	5,639	5,018	4,653
U. Maryland <sup>a</sup>	52	na	9,617	9,288	8,600	na	7,917	7,725	7,813
Brown U.	53	4,782	6,801	7,889	8,598	4,560	6,658	7,262	7,644
Purdue U., West Lafayette	54	6,545	6,192	7,176	8,342	4,176	4,017	4,932	6,095
Ohio State U.	55	8,509	7,861	7,542	8,139	6,438	6,154	5,681	6,411
U. Massachusetts, Amherst	56	7,357	9,195	7,836	8,004	4,034	5,672	5,429	5,747
U. Delaware	57	4,409	5,486	7,485	7,990	3,554	4,086	5,755	6,801
U. Virginia, Charlottesville	58	8,894	9,245	10,335	7,565	4,321	4,411	4,395	4,677
U. Utah	59	5,683	18,431	11,198	7,255	3,596	9,100	4,900	4,196
U. South Florida <sup>b</sup>	60	4,843	4,305	4,710	6,927	1,613	1,094	928	1,692
Oklahoma State U., Stillwater	61	3,557	9,018	9,085	6,926	980	2,440	2,900	2,316
Duke U.	62	9,647	11,226	8,953	6,923	7,396	8,855	6,104	4,657
U. Denver	63	5,096	5,002	5,870	6,659	3,826	3,602	4,092	4,978
Texas A&M U., College Station and Health Science Center	64	3,159	3,538	5,248	6,546	1,120	1,508	2,550	3,233
U. Nevada, Reno	65	4,947	5,429	5,430	6,422	3,212	3,400	2,469	3,647
U. New Mexico	66	8,793	6,938	6,827	6,321	6,444	5,079	5,505	4,765
Johns Hopkins U. <sup>c</sup>	67	3,702	4,995	5,918	6,201	2,943	4,191	5,066	5,471

TABLE 52

**Total and federally financed higher education R&D expenditures in psychology, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Rutgers, State U. New Jersey, New Brunswick	68	6,453	7,700	8,256	6,145	3,669	2,785	3,961	3,028
Washington U., Saint Louis	69	5,578	6,129	6,052	6,121	4,284	5,167	4,887	4,997
U. Chicago	70	8,360	7,744	8,006	6,041	6,574	5,466	5,959	4,837
U. Missouri, Columbia	71	10,169	8,771	7,898	5,836	8,870	7,321	6,323	4,219
Rice U.	72	3,182	3,821	4,798	5,772	2,276	2,524	3,320	4,283
U. Alabama, Birmingham	73	5,355	4,933	5,164	5,695	4,796	4,353	4,434	4,971
SUNY, U. Buffalo	74	4,908	4,752	5,113	5,677	3,485	3,371	3,537	3,854
SUNY, Stony Brook U.	75	4,034	4,703	4,946	5,557	2,921	3,043	3,725	4,112
Tufts U.	76	1,811	1,739	2,420	5,486	1,442	1,351	2,074	4,976
Princeton U.	77	6,295	6,482	9,240	5,441	2,345	3,443	5,239	2,116
U. Memphis	78	5,044	6,101	5,455	5,431	1,040	1,019	1,164	1,632
U. Alabama, Tuscaloosa	79	2,889	2,931	3,030	5,384	1,627	1,406	1,329	2,362
Utah State U.	80	3,464	3,787	4,698	5,331	1,143	1,630	2,430	2,420
Emory U.	81	4,975	5,399	4,817	5,215	4,138	4,279	3,989	4,218
U. Rochester	82	6,526	5,573	5,576	5,135	5,742	4,610	4,341	4,328
Washington State U.	83	3,543	3,190	3,875	5,000	1,443	1,003	1,813	3,271
U. Tennessee, Knoxville <sup>d</sup>	84	4,243	4,382	5,465	4,744	1,050	1,444	1,882	1,475
Columbia U. in the City of New York	85	3,456	4,552	5,234	4,637	2,778	3,758	4,286	3,688
Boston C.	86	3,549	3,837	4,452	4,588	2,419	2,284	2,343	2,314
Kent State U.	87	3,891	4,410	4,776	4,536	1,725	2,342	2,684	2,467
U. Notre Dame	88	4,863	4,887	5,450	4,454	2,759	3,138	3,845	3,684
Brandeis U.	89	2,673	2,485	4,459	4,423	2,149	2,086	3,125	3,004
U. Texas, El Paso	90	3,962	10,393	5,285	4,407	1,255	1,874	1,603	1,627
U. Massachusetts, Boston	91	2,932	4,622	4,361	4,292	2,200	2,604	2,198	2,031
Kansas State U.	92	6,574	6,005	5,215	4,287	5,210	4,576	3,998	3,115
U. Cincinnati	93	2,388	1,746	1,667	4,278	1,658	1,114	1,068	2,875
U. Arizona	94	2,628	2,670	2,900	4,255	1,479	1,610	1,971	2,381
Harvard U.	95	8,362	6,829	5,099	4,200	3,078	3,436	2,242	1,867
U. Kentucky	96	4,110	4,047	3,537	4,185	3,156	2,678	2,882	3,379
Virginia Polytechnic Institute and State U.	97	4,350	4,286	4,899	4,169	2,444	2,046	2,338	1,868
U. Texas, Dallas	98	897	751	789	4,130	269	4	20	1,853
Rensselaer Polytechnic Institute	99	2,433	3,151	4,479	4,036	2,062	2,406	2,676	2,075
Indiana U.-Purdue U., Indianapolis	100	3,954	4,165	4,667	4,030	3,126	3,443	4,047	3,422
Syracuse U.	101	5,065	4,426	3,771	3,916	2,053	1,996	1,585	1,695

TABLE 52

**Total and federally financed higher education R&D expenditures in psychology, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
U. Wisconsin-Milwaukee	102	4,114	3,909	4,404	3,800	3,085	2,893	3,125	2,731
U. California, Riverside	103	4,638	4,923	2,950	3,791	3,369	2,997	2,189	2,457
Georgia Institute of Technology	104	4,033	3,550	3,943	3,782	2,379	1,505	1,899	1,944
Colorado State U., Fort Collins	105	4,324	3,860	3,255	3,755	3,409	3,357	3,000	3,335
SUNY, U. Albany	106	3,154	4,389	4,982	3,748	535	927	1,148	1,227
U. Nevada, Las Vegas	107	1,528	2,982	3,767	3,738	717	454	240	3
U. Vermont	108	1,333	1,773	3,084	3,694	1,117	1,310	1,641	1,531
Baylor U.	109	400	906	2,726	3,692	0	143	384	313
Iowa State U.	110	12,694	9,858	3,786	3,595	3,342	3,913	890	733
U. North Carolina, Greensboro	111	3,062	3,471	2,805	3,539	2,007	2,073	2,188	2,403
U. California, Santa Barbara	112	5,517	5,299	4,929	3,457	3,455	3,927	3,807	2,266
Northwestern U.	113	3,923	4,157	3,706	3,352	2,403	2,469	2,438	2,528
U. Rhode Island	114	2,030	1,483	2,059	3,222	944	514	705	1,752
U. California, Davis	115	2,256	2,740	3,022	3,177	1,530	1,626	1,153	1,495
Auburn U., Auburn	116	1,871	2,457	2,824	3,137	472	396	659	510
Montclair State U.	117	283	927	2,060	3,099	250	251	174	236
George Washington U.	118	3,086	2,457	3,074	3,071	2,240	1,658	2,257	2,282
East Tennessee State U.	119	2,695 i	2,381 i	2,755 i	3,057 i	170	161	40	14
George Mason U.	120	3,014	3,143	3,196	3,029	2,218	2,162	1,696	1,495
U. Illinois, Chicago	121	5,607	4,352	3,621	2,928	3,616	2,901	2,253	1,587
U. Texas, San Antonio	122	1,015	1,262	4,716	2,835	658	662	2,836	753
U. North Texas, Denton	123	2,881	4,375	4,489	2,719	1,792	1,592	900	583
U. Oklahoma, Norman and Health Science Center	124	1,351	1,395	1,608	2,599	968	1,250	987	2,212
Wayne State U.	125	1,730	1,584	1,464	2,542	745	761	802	1,602
North Carolina State U.	126	3,443	3,071	2,479	2,523	1,736	1,754	1,236	1,060
Drexel U.	127	4,295	3,555	2,852	2,435	2,422	2,436	1,979	1,824
DePaul U.	128	2,841	2,812	3,343	2,415	2,208	2,373	2,974	2,166
Rush U.	129	2,824	2,566	1,944	2,399	2,733	2,414	1,905	2,367
West Virginia U.	130	2,232	2,041	1,773	2,304	1,538	1,380	1,195	1,531
California State U., San Bernardino	131	3,461	2,708	1,775	2,299	749	383	594	820
North Dakota State U.	132	1,979	3,077	2,798	2,283	1,465	1,232	1,078	986
Howard U.	133	2,434	1,968	1,878	2,214	2,048	1,335	1,280	1,510
Fordham U.	134	3,131	2,095	1,632	2,116	2,781	1,768	1,365	1,883
Mississippi State U.	135	1,498	1,480	2,044	1,836	350	514	491	278

TABLE 52

**Total and federally financed higher education R&D expenditures in psychology, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed						
		2018	2019	2020	2021	2018	2019	2020	2021			
Ohio U.	136	2,001	i	2,031	1,827	1,792	1,012	1,254	1,224	1,048		
Florida Atlantic U.	137	2,820		2,391	2,306	1,771	1,448	1,358	1,167	1,036		
Tulane U.	137	1,915		2,342	1,942	1,771	844	1,248	1,589	1,202		
U. Louisville	139	1,445		1,662	2,050	1,757	671	619	725	707		
U. Massachusetts, Lowell	140	1,575		1,719	1,746	1,743	865	862	921	907		
CUNY, Brooklyn C.	141	1,317		1,218	i	1,264	1,723	1,084	986	i	1,027	1,328
Gallaudet U.	142	1,616		1,117	988	1,715	193	179	137	158		
U. North Dakota	143	1,640		1,135	1,506	1,713	387	149	268	325		
Case Western Reserve U.	144	1,772		1,812	1,155	1,654	909	613	670	897		
San Francisco State U.	145	2,435		1,329	1,496	i	1,617	1,198	302	301	i	304
Loyola Marymount U.	146	1,351		1,441	1,515	1,604	356	436	447	623		
Clemson U.	147	857		460	633	1,587	486	235	416	928		
U. Texas, Arlington	148	1,459		1,660	1,329	1,568	204	105	84	194		
SUNY, C. of Environmental Science and Forestry	149	0		0	180	1,531	0	0	0	0		
Miami U.	150	1,186		1,368	1,685	1,510	637	819	1,212	998		
Western Washington U.	151	1,306		1,038	1,213	1,497	94	124	127	112		
U. Maryland, Baltimore County	152	2,019		2,046	1,973	1,491	1,020	1,374	1,219	1,015		
California State U., Long Beach	153	1,754		1,660	1,465	1,431	1,444	1,425	1,410	1,411		
Old Dominion U.	154	1,564		1,126	1,419	1,381	1,332	724	828	913		
Florida Institute of Technology	155	1,874		1,813	1,652	1,371	873	728	537	305		
James Madison U.	156	13		146	1,379	1,345	0	0	0	0		
Loyola U., Chicago	157	1,207		1,007	1,105	1,288	837	832	935	1,048		
Ponce Health Sciences U.	157	0		0	0	1,288	0	0	0	1,288		
U. New Hampshire	159	1,621		1,869	877	1,279	1,394	1,517	601	534		
Southern Methodist U.	160	789		1,093	1,457	1,273	323	481	1,150	1,132		
Portland State U.	161	1,418		1,400	1,766	1,257	882	1,297	1,652	1,176		
Marquette U.	162	929		1,371	1,140	1,223	222	363	202	185		
Wright State U.	163	1,925		2,736	1,525	1,194	1,495	2,436	1,303	975		
U. Texas Rio Grande Valley	164	196		635	917	1,181	196	22	0	0		
U. Colorado Denver <sup>e</sup>	165	na		na	na	1,179	na	na	na	706		
Chapman U.	166	485		0	888	1,161	307	0	842	1,023		
California State U., San Marcos	167	639		1,041	1,261	1,150	600	698	967	924		
U. South Dakota	167	704		582	687	1,150	148	66	80	461		
Delaware State U.	169	0		0	1,348	i	1,144	0	0	290	i	333

TABLE 52

**Total and federally financed higher education R&D expenditures in psychology, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Rutgers, State U. New Jersey, Newark	170	1,590	2,169	2,132	1,139	1,150	1,608	1,293	483
U. Maine	171	113	852	1,183	1,108	57	67	243	135
CUNY, Queens C.	172	1,268	1,327	1,222	1,082	1,035	1,207	1,087	878
Georgia Southern U.	173	8	14	27	1,069	1	0	0	0
American U.	174	3,026	2,564	2,248	1,063	1,651	1,084	702	127
Barnard C.	175	1,335	1,359	1,343	1,043	1,146	1,260	1,198	960
Oregon State U.	176	1,442	1,318	1,115	1,035	1,166	1,179	947	706
CUNY, Graduate School of Public Health and Health Policy	177	1,328	1,639	1,278	1,010	1,323	1,639	1,278	1,010
Wesleyan U.	178	926	991	871	1,002	663	687	692	782
U. Arkansas, Fayetteville	179	1,222	782	707	994	549	222	135	241
Bowling Green State U.	180	906	991	1,444	979	190	303	167	22
East Carolina U.	181	878	1,039	1,321	974	19	288	690	612
Long Island U.	182	19	45	1,189	950	18	41	50	53
Georgetown U.	183	2,404	2,741	2,615	949	1,206	1,456	1,358	949
Northern Illinois U.	184	1,260	1,034	1,057	947	756	704	732	849
CUNY, John Jay C. of Criminal Justice	185	2,949	2,082	3,546	933	770	688	1,821	109
U. Montana, Missoula	185	700	840	791	933	523	416	327	467
Villanova U.	187	847	1,244	1,141	900	216	254	444	273
Wellesley C.	188	77	0	229	899	77	0	229	254
U. Mississippi	189	1,292	1,140	620	889	0	0	0	0
Teachers C., Columbia U.	190	2,514	1,760	1,387	878	1,135	942	618	593
U. California, Santa Cruz	191	854	721	487	868	408	316	98	19
Azusa Pacific U.	192	785	742	885	844	28	23	0	146
Wake Forest U.	193	126	1,041	847	812	124	22	86	69
Cleveland State U.	194	893	644	653	762	176	69	69	96
Western Kentucky U.	195	561	749	672	757	164	158	176	275
Louisiana State U., Baton Rouge	196	802	1,119	902	750	93	213	180	159
U. North Carolina, Charlotte	196	902	635	711	750	278	115	284	328
Rowan U.	198	370	291	504	739	138	194	397	686
Texas Woman's U.	199	635	587	488	695	0	58	0	0
Davidson C.	200	345	351	975	691	231	244	758	522
CUNY, Graduate Center	201	1,537	633	576	682	678	342	297	370
Middle Tennessee State U.	202	0	0	58	652	0	0	58	72
U. Missouri, Kansas City	203	458	1,257	1,064	646	0	435	288	117

TABLE 52

**Total and federally financed higher education R&D expenditures in psychology, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
New School	204	2,911	1,726	1,249	635	1,186	1,318	444	318
Sam Houston State U.	205	120	308	602	631	32	60	211	144
Oklahoma State U., Center for Health Sciences	206	0	126	373	624	0	39	87	338
Louisiana Tech U.	207	420	474	571	616	32	73	92	298
South Dakota State U.	208	0	223	192	600	0	122	145	499
Loma Linda U.	209	822	747	672	597	819	744	670	595
Spelman C.	210	7	526	588	568	7	526	588	568
U. South Alabama	211	200	253	311	561	117	133	39	310
Michigan Technological U.	212	962	455	551	546	127	141	130	106
California State U., Bakersfield	213	585	191	504	524	384	0	372	317
U. New Orleans	214	207	335	497	523	18	0	0	0
Catholic U. of America	215	105	294	347	520	84	190	237	324
Mount Holyoke C.	216	529	572	584	519	406	369	298	384
Indiana U. Pennsylvania	217	246	428	630	490	0	104	113	50
Central Michigan U.	218	281	413	497	486	86	250	309	125
William Paterson U.	219	736	1,136	944	485	118	286	70	93
Massachusetts Institute of Technology	220	1,985	517	484	478	840	325	277	430
Wichita State U.	220	712	399	543	478	568	263	375	207
U. Tulsa	222	829	796	604	472	238	38	7	72
California State U., East Bay	223	ne	ne	410	465	ne	ne	26	92
Reed C.	224	78	209	473	464	0	47	91	97
Northern Kentucky U.	225	573	596	437	459	363	354	277	308
U. Nebraska, Omaha	226	534	471	405	456	515	409	348	371
Pennsylvania State U., Harrisburg	227	6	58	0	444	0	18	0	59
Suffolk U.	228	ne	ne	584	438	ne	ne	584	438
Albizu U.	229	ne	ne	ne	428	ne	ne	ne	0
Texas Southern U.	230	0	0	0	425	0	0	0	425
U. California, Merced	231	724	1,284	1,712	424	90	44	204	58
U. West Florida	231	80	59	142	424	0	0	113	78
New Mexico State U.	233	251	268	276	422	215	196	229	198
Montana State U., Bozeman	234	223	235	359	415	96	98	114	84
U. Hawaii, Manoa	235	274	279	441	414	253	226	315	237
U. Wyoming	236	238	236	664	412	0	229	664	47
Lehigh U.	237	239	448	561	398	201	376	396	306

TABLE 52

**Total and federally financed higher education R&D expenditures in psychology, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Northern Arizona U.	238	276	750	725	396	123	480	589	181
Occidental C.	239	0	178	65	393	0	0	9	352
U.S. Military Academy	240	70	28	120	387	70	28	12	0
Brigham Young U., Provo	241	809	488	298	382	726	339	219	222
Southern Illinois U., Carbondale	242	62	27	223	381	20	13	114	239
Oakland U.	243	286	467	184	377	211	360	173	321
Tarleton State U.	244	0	65	294	368	0	0	0	0
William & Mary	245	211	191	320	367	67	123	234	255
U. Toledo	246	256	107	452	365	0	0	50	153
California State U., Dominguez Hills	247	7	114	95	360	0	78	63	292
Winston-Salem State U.	248	0	0	252	356	0	0	252	356
U. Richmond	249	193	206	316	354	74	58	231	236
Nova Southeastern U.	250	966	552	596	353	882	455	374	153
CUNY, C. Staten Island	251	345 i	389	342	352	278 i	340	284	310
Saint Joseph's U.	252	462	472	457	349	35	39	54	20
Southern Connecticut State U.	253	90	378	366	332	63	251	164	80
California State U., Sacramento	254	164	298	310	330	0	109	90	54
U. of St. Thomas (MN)	255	0	66	210	328	0	4	16	0
Bryn Mawr C.	256	497	628	295	327	66	67	0	0
Rosalind Franklin U. of Medicine and Science	256	80	115	85	327	46	100	83	316
Trinity U.	258	198	348	328	313	183	221	209	231
Appalachian State U.	259	77	52	344	307	72	44	91	124
Western Michigan U. and Homer Stryker M.D. School of Medicine	260	864	181	191	302	240	29	88	177
Claremont Graduate U.	261	1,256 i	969	966	300	923 i	584	284	123
Minnesota State U., Mankato	262	0	0	59	298	0	0	59	90
Trinity C., Hartford	263	64	48	0	295	0	0	0	281
Prairie View A&M U.	264	1,019	851	536	292	0	0	0	0
Pomona C.	265	169	143	248	286	29	0	35	122
Creighton U.	266	269 i	303 i	259 i	279 i	88 i	126 i	116 i	121 i
CUNY, Baruch C.	266	126	133	230	279	101	124	220	227
U. Alaska, Anchorage	268	0	177	181	277	0	177	181	261
California State U., Fullerton	269	227	92	106	272	227	60	66	139
Texas State U.	269	231	232	223	272	147	138	94	193
Mercer U.	271	264	253	258	270	0	0	0	0

TABLE 52

**Total and federally financed higher education R&D expenditures in psychology, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed						
		2018	2019	2020	2021	2018	2019	2020	2021			
Vassar C.	272	313	i	100	221	269	313	i	68	196	216	
Idaho State U.	273	535		656	318	266	472		590	247	266	
Tennessee State U.	274	481		364	245	259	i	481	361	243	257	i
U. Colorado Colorado Springs	274	1,100		591	226	259		991	571	226	256	
California State U., Northridge	276	304		419	473	255		282	419	455	231	
Pennsylvania State U., Behrend	277	45		46	11	254		0	1	0	104	
West Chester U. Pennsylvania	278	205		295	205	253		0	0	32	41	
U. North Florida	279	54		52	96	249		8	0	0	201	
Pepperdine U.	280	92		220	229	248		0	79	103	100	
U. Tennessee, Chattanooga	281	61		115	242	246		10	22	78	0	
U. Wisconsin-Eau Claire	282	171		203	173	245		171	157	122	172	
U. Missouri, Saint Louis	283	411		317	140	241		147	81	48	55	
North Carolina Agricultural and Technical State U.	284	16		24	30	236		0	0	12	236	
Carleton C.	285	148		145	86	234		148	145	86	226	
Purdue U., Fort Wayne	286	39		97	168	233		39	71	104	123	
Saint Louis U.	286	480		333	393	233		369	317	300	165	
U. Alabama, Huntsville	286	175		183	218	233		0	0	0	0	
U. New Haven	289	0		54	22	232		0	51	22	232	
Kennesaw State U.	290	9		71	38	231		0	0	11	13	
U. Akron	291	283		338	328	226		46	49	57	43	
Clark U.	292	540		829	622	223		115	136	93	50	
SUNY, Geneseo	293	89		262	208	219		42	121	102	112	
California State U., Stanislaus	294	17		11	13	218		0	0	4	118	
U. North Carolina, Wilmington	295	280		314	183	214		253	297	179	212	
U. Texas, Tyler	295	45		37	110	214		0	0	0	0	
Towson U.	297	86		104	192	213		0	0	71	106	
Florida A&M U.	298	392		248	242	212		312	225	242	207	
Texas Christian U.	299	227		632	189	206		216	532	114	179	
Amherst C.	300	80		83	101	201	i	0	29	50	109	
Smith C.	301	491		521	226	195		348	421	164	133	
Texas A&M U.-Commerce	302	116		334	374	191		0	98	164	30	
U. Idaho	303	110		135	320	189		88	83	199	101	
Indiana U., South Bend	304	42		ne	ne	187		0	ne	ne	0	
Ball State U.	305	65		338	214	183		6	76	64	80	



TABLE 52

**Total and federally financed higher education R&D expenditures in psychology, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Eastern Michigan U.	305	126	94	183	183	22	0	0	0
Middlebury C.	307	0	205	245	181	0	205	245	180
Furman U.	308	139	182	25	178	89	182	0	165
Hope C.	309	300	236	242	177	0	0	0	0
Jackson State U.	310	0	69	25	174	0	69	25	144
Alabama A&M U.	311	343 i	256 i	174 i	171 i	262 i	185 i	126 i	126 i
Connecticut C.	312	0	0	208	166	0	0	70	64
Duquesne U.	313	96	115	414	160	6	4	0	0
CUNY, York C.	314	ne	48	0	159	ne	42	0	159
California Polytechnic State U., San Luis Obispo	315	61	90	185	157	35	3	0	0
Augusta U.	316	16	0	101	155	0	0	68	88
U. Michigan, Dearborn	317	25	82	112	154	0	0	0	0
Naval Postgraduate School	318	0	0	0	151	0	0	0	40
U. Louisiana, Lafayette	318	117	5,326	327	151	1	0	0	0
U. San Diego	320	225	223	190	149	177	186	106	18
Skidmore C.	321	147	423	325	146	58	291	201	107
U. Houston-Clear Lake	322	169	209	145	136	164	167	109	111
Missouri U. of Science and Technology	323	109	190	173	134	0	7	134	91
Elon U.	324	260	159	108	132	179	76	43	54
Bucknell U.	325	239	152	154 i	129	107	41	0 i	0
Boise State U.	326	136	293	171	127	40	199	154	105
U. Nebraska, Kearney	326	11	53	30	127	0	19	19	30
Bowdoin C.	328	0	0	180	125	0	0	158	123
U. Dayton	329	62	43	33	118	0	0	0	80
U. Southern Mississippi	329	0	0	0	118	0	0	0	118
California State U., Fresno	331	57	103	34	116	56	80	34	116
Roger Williams U.	331	61	204	203	116	60	201	198	111
Rhode Island C.	333	128	51	171	115	103	17	155	83
Claremont McKenna C.	334	140	65	157	113	41	16	94	107
Clarkson U.	334	14	22	86	113	0	0	0	7
Oregon Institute of Technology	334	0 i	135 i	122 i	113 i	0	0 i	0	5 i
Rochester Institute of Technology	337	174	22	60	110	118	11	43	99
Swarthmore C.	337	96	85	117	110	6	0	64	53
U. Puerto Rico, Humacao	337	0	48	101	110	0	48	101	110

TABLE 52

**Total and federally financed higher education R&D expenditures in psychology, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Hofstra U.	340	22	19	15	109	0	0	0	0
California State U., Los Angeles	341	44	93 i	110	103	0	0	25	0
Bates C.	342	114	154	173	101	107	147	154	78
Virginia State U.	343	0	0	0	95	0	0	0	95
Marymount U.	344	ne	ne	ne	89	ne	ne	ne	0
Wheaton C., Wheaton	344	43	363	299	89	0	0	0	0
Lafayette C.	346	127	123	155	88	83	99	116	70
U. Central Arkansas	347	75	82	93	87	0	0	0	0
Williams C.	348	184	91	85 i	83 i	0	0	0 i	0 i
U. Northern Colorado	349	515	242	178	81	218	193	140	55
Franklin and Marshall C.	350	267	197	68	80	90	0	12	9
Tennessee Technological U.	350	62	12	175	80	28	0	0	0
St. John's U., New York	352	96	55	126	79	11	22	41	27
Haverford C.	353	148 i	147 i	173 i	77 i	106	103	93	34
Colby C.	354	113	100	97	72	0	15	0	0
Hamilton C.	355	59	155	100	69	0	0	0	0
Northern Michigan U.	355	102	183	201	69	0	9	157	49
Colgate U.	357	242	270	74	63	6	26	0	0
Northland C.	357	ne	ne	ne	63 i	ne	ne	ne	49 i
Arkansas State U., Jonesboro	359	18	23	55	62	12	18	35	40
Fisk U.	360	197	0	0	60	197	0	0	0
Oregon Health and Science U.	360	482	0	53	60	0	0	0	0
Morehouse C.	362	0	61	42	59	0	61	42	59
Sonoma State U.	363	ne	ne	10	58	ne	ne	0	53
Philadelphia C. of Osteopathic Medicine	364	0	0	0	55	0	0	0	0
Youngstown State U.	364	58	63	12	55	48	61	12	54
Christopher Newport U.	366	0	44	50	54	0	44	37	43
Texas A&M International U.	367	61	100	34	53	0	0	0	0
U. Detroit Mercy	367	86	124	135	53	73	121	124	42
Grand Valley State U.	369	30	47	63	52	0	10	37	29
St. Olaf C.	370	59	37	43	51	11	15	9	1
Texas A&M U.-Kingsville	370	101	113	98	51	79	107	86	48
U. Hartford	370	0	0	0	51	0	0	0	0
Illinois State U.	373	39	18	20	50	0	0	0	0

TABLE 52

**Total and federally financed higher education R&D expenditures in psychology, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
CUNY, system office	374	0	0	0	49	0	0	0	0
Elizabeth City State U.	374	0	ne	0	49	0	ne	0	49
Albion C.	376	50	56	45	44 i	0	0	0	0 i
Winthrop U.	376	1	0	0	44	0	0	0	43
Eastern Kentucky U.	378	49	13	12	43	0	0	8	8
U. Wisconsin-Oshkosh	379	31 i	35 i	38 i	41	0 i	0 i	0 i	0
Eastern Washington U.	380	26	47	47	39	0	0	0	0
U. Ana G. Mendez, Gurabo	380	20	0	0	39	0	0	0	0
Willamette U.	380	80	107	126	39	68	95	121	36
C. of Saint Benedict	383	28	28 i	27 i	37 i	0	0 i	0 i	3 i
C. Wooster	383	31	21	38	37 i	30	21	0	0 i
Saint John's U.	383	25	25 i	23 i	37 i	0	0 i	0 i	0 i
C. Charleston	386	70	65	42	36	0	0	0	0
Providence C.	387	231	122	70	35	197	111	70	35
Missouri State U.	388	0	0	28	34	0	0	24	28
U. Wisconsin-Green Bay	389	25 i	36 i	34 i	31 i	12 i	17 i	18 i	17 i
Lewis and Clark C.	390	112	87	69	29	0	0	0	0
Eastern Connecticut State U.	391	12	215	141	28	0	0	0	0
U. Oklahoma, Tulsa	391	0	0	0	28	0	0	0	0
U. San Francisco	391	18	39	39	28	0	0	0	0
Colorado State U., Pueblo	394	ne	70	0	27	ne	0	0	0
Rutgers, State U. New Jersey, Camden	395	61	46	97	26	53	0	0	0
Union C., Schenectady	396	64	56	0	24	29	0	0	0
Colorado C.	397	52	84	115	23	0	0	0	0
Macalester C.	397	13	41	41	23	0	0	0	0
U. Texas of the Permian Basin	397	0	ne	7	23	0	ne	6	18
Mercyhurst U.	400	ne	23 i	23 i	22 i	ne	10 i	10 i	10 i
Purdue U., Northwest	400	1	8	39	22	0	0	0	0
Abilene Christian U.	402	ne	ne	ne	21	ne	ne	ne	0
Grinnell C.	403	448	149	173	20	0	0	0	0
St. Edward's U.	403	10	24	20	20	0	0	0	0
U. Colorado Anschutz Medical Campus <sup>e</sup>	403	na	na	na	20	na	na	na	20
U. Minnesota, Duluth	403	6	1	25	20	0	0	0	0
U. Wisconsin-Platteville	403	ne	26 i	28 i	20 i	ne	6 i	6 i	6 i

TABLE 52

**Total and federally financed higher education R&D expenditures in psychology, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
California State Polytechnic U., Pomona	408	182	0	0	19	159	0	0	19
Citadel Military C. South Carolina	409	ne	ne	32	16	ne	ne	30	15
Kean U.	409	ne	ne	0	16	ne	ne	0	0
CUNY, City C.	411	940	953	693	15	814	735	579	0
Central Connecticut State U.	412	ne	12	8	14	ne	0	0	0
Biola U.	413	13 i	13 i	13 i	13 i	8 i	8 i	8 i	8 i
Salisbury U.	413	54	60	19	13	1	0	0	0
Monmouth U.	415	ne	0	0	12	ne	0	0	12
Framingham State U.	416	8	ne	10	11 i	0	ne	10	11 i
Oberlin C.	416	163	58	51	11	86	27	51	7
Saginaw Valley State U.	416	15	9	11	11 i	0	0	0	0 i
U. North Carolina, general administration	416	0	0	0	11	0	0	0	11
C. New Jersey	420	2	ne	7	10	0	ne	0	0
Florida Gulf Coast U.	420	0	0	0	10	0	0	0	3
Fairfield U.	422	9	0	26	9	0	0	0	0
Morgan State U.	422	0	62	83	9	0	61	82	0
Coastal Carolina U.	424	26	82	0	7	26	82	0	0
Hobart and William Smith Colleges	424	ne	11	7	7	ne	0	0	0
Pace U.	424	25	10	16	7	0	0	0	0
U. Puerto Rico, Rio Piedras	424	1	14	0	7	0	13	0	7
U. Wisconsin-La Crosse	424	33	26	10	7	0	0	0	0
U. of the Pacific	429	0	0	0	6	0	0	0	6
Seattle U.	430	0	0	0	5	0	0	0	0
U. Michigan, Flint	430	1	0	0	5	0	0	0	0
California State U., Channel Islands	432	8	10	0	4	0	0	0	0
Humboldt State U.	432	0	3	0	4	0	0	0	0
U. Wisconsin-River Falls	432	0	ne	0	4	0	ne	0	0
Marshall U.	435	12	0	0	3	0	0	0	0
U. South Carolina, Aiken	435	7	0	20	3	0	0	0	0
Ithaca C.	437	ne	ne	7	2	ne	ne	0	0
Stephen F. Austin State U.	437	1	2	10	2	0	0	0	0
SUNY, Oswego	437	16	8	13	2	0	0	0	0
U. New England	437	7	35	6	2	0	0	0	0
U. North Carolina, Asheville	437	101	0	18	2	101	0	18	2

TABLE 52

**Total and federally financed higher education R&D expenditures in psychology, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Troy U.	442	ne	ne	3	1	ne	ne	0	0
All other surveyed institutions	-	14,961	5,886	4,654	0	10,767	3,637	2,692	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

<sup>a</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

<sup>b</sup> The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

<sup>c</sup> Johns Hopkins University includes the Applied Physics Laboratory (APL), with zero imputed for total and zero reported for federally financed R&D expenditures in psychology in FY 2021. Total expenditures by field for Johns Hopkins University are flagged as imputed because APL was unable to distribute a portion of institutionally funded R&D by field.

<sup>d</sup> The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

<sup>e</sup> The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

**Note(s):**

Institutions reporting zero expenditures in ranked total for FY 2021 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 53

**Higher education R&D expenditures in the social sciences, ranked by all FY 2021 social sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
All institutions	-	2,721,777	2,805,154	2,953,545	2,842,033	109,546	549,132	425,661	552,551	1,205,143
U. Michigan, Ann Arbor	1	192,919	191,336	187,421	175,698	5,288	31,218	30,233	27,044	81,915
Harvard U.	2	134,493	141,321	142,484	136,543	1,692	30,422	37,058	5,495	61,876
U. Southern California	3	39,649	52,212	59,926	75,520	120	476	250	2,326	72,348
Arizona State U.	4	80,110	86,570	83,980	73,205	12,679	7,814	13,141	3,802	35,769
U. North Carolina, Chapel Hill	5	114,814	108,095	82,154	67,325	199	214	2,912	52,687	11,313
U. Wisconsin-Madison	6	47,110	48,019	59,239	63,043	682	8,813	8,695	6,042	38,811
U. California, Los Angeles	7	69,184	58,050	60,591	62,413	0	543	4,097	12,279	45,494
U. Maryland <sup>a</sup>	8	na	66,691	64,636	58,423	688	1,275	5,583	5,473	45,404
Princeton U.	9	50,613	58,918	57,913	57,323	305	8,419	27,318	17,047	4,234
U. California, Berkeley	10	58,150	61,374	60,568	56,908	512	29,543	8,965	4,810	13,078
George Mason U.	11	51,552	57,278	65,405	48,250	176	32,770	2,288	3,108	9,908
Massachusetts Institute of Technology	12	38,166	46,532	51,477	47,850	0	32,590	2,958	25	12,277
U. Pennsylvania	13	49,776	49,088	51,374	46,021	1,378	5,756	3,782	19,644	15,461
Michigan State U.	14	25,610	27,037	50,407	45,620	1,122	18,907	2,661	3,383	19,547
Indiana U., Bloomington	15	38,541	44,681	47,426	40,800	1,569	4,432	10,814	9,205	14,780
Duke U.	16	34,186	34,532	36,760	36,432	1,278	2,930	469	11,349	20,406
Brandeis U.	17	15,709	18,222	25,117	34,261	2,002	0	543	7,047	24,669
U. South Florida <sup>b</sup>	18	25,741	30,138	31,616	33,907	2,166	971	1,539	2,439	26,792
Georgia State U.	19	24,915	23,970	24,697	33,767	572	10,624	2,198	8,019	12,354
U. Minnesota, Twin Cities	20	35,191	35,278	31,218	33,248	193	6,548	4,154	19,908	2,445
Brown U.	21	18,539	24,887	30,782	32,799	46	668	2,327	775	28,983
Georgetown U.	22	33,270	37,195	35,933	32,030	0	172	28,427	72	3,359
U. California, Davis	23	24,402	27,167	28,486	30,951	0	8,510	7,523	1,341	13,577
New York U.	24	29,375	31,003	30,676	29,601	11	1,448	8,579	6,550	13,013
Texas A&M U., College Station and Health Science Center	25	28,983	30,686	29,389	28,965	2,029	7,647	5,725	2,273	11,291
U. Georgia	26	23,147	20,857	23,737	28,411	1,550	13,175	1,687	2,288	9,711
Pennsylvania State U., University Park and Hershey Medical Center	27	30,643	27,943	27,842	27,130	424	4,478	1,269	20,959	0
Mississippi State U.	28	41,077	41,008	32,157	25,601	516	373	956	7,394	16,362
U. Texas, Austin	29	18,516	20,467	20,650	23,660	1,266	90	346	16,316	5,642

TABLE 53

**Higher education R&D expenditures in the social sciences, ranked by all FY 2021 social sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
George Washington U.	30	27,781	27,686	25,348	23,621	1,216	1,934	1,015	2,782	16,674
Dartmouth C. and Dartmouth Hitchcock Medical Center	31	18,404	17,928	20,370	23,175	481	1,280	1,396	18,634	1,384
U. California, San Diego	32	19,932	20,178	19,942	22,940	659	3,624	9,643	4,336	4,678
Stanford U.	33	24,772	24,038	24,770	22,559	53	4,613	5,153	173	12,567
Cornell U.	34	31,266	29,183	25,622	22,269	166	2,493	1,809	4,912	12,889
U. Chicago	35	20,285	21,578	23,750	22,088	52	4,102	1,187	2,456	14,291
Northwestern U.	36	15,007	16,211	18,762	21,988	553	6,455	584	249	14,147
Rice U.	37	17,208	20,720	19,959	21,092	171	353	8,572	11,427	569
U. Montana, Missoula	38	18,144	16,775	17,493	20,948	1,053	4,674	344	432	14,445
SUNY, Binghamton U.	39	12,684	13,250	16,907	19,706	2,480	6,875	2,352	3,239	4,760
Florida International U.	40	10,866	16,551	17,828	19,172	11	2,030	1,340	1,300	14,491
U. Arizona	41	19,835	19,450	17,689	18,628	3,482	2,779	601	4,125	7,641
Florida State U.	42	19,717	18,519	19,446	18,501	328	3,868	3,817	2,430	8,058
U. Virginia, Charlottesville	43	11,388	13,457	16,948	18,063	460	1,421	6,609	3,844	5,729
U. South Carolina, Columbia	44	15,241	13,440	16,626	17,831	3,271	0	1,483	8,833	4,244
Ohio State U.	45	14,157	17,776	18,486	17,017	462	3,468	852	5,352	6,883
American U.	46	16,040	20,802	20,632	16,428	0	2,410	6,730	1,188	6,100
U. Florida	47	14,692	13,849	13,552	16,015	1,223	5,876	2,874	232	5,810
Tufts U.	48	15,495	14,063	12,852	15,859	2,830	1,385	22	85	11,537
Teachers C., Columbia U.	49	15,566	15,875	13,869	15,472	0	14,292	0	0	1,180
Washington State U.	50	14,112	13,079	12,338	15,147	449	4,985	730	680	8,303
Syracuse U.	51	12,728	12,954	14,165	14,920	939	2,726	4,711	2,910	3,634
Purdue U., West Lafayette	52	12,255	10,040	21,150	14,611	1,002	11,468	468	1,505	168
U. Maryland, Baltimore County	53	10,521	13,139	11,597	14,413	0	265	46	281	13,821
Yale U.	54	11,683	14,401	15,994	14,055	1,219	6,866	1,762	2,954	1,254
U. Colorado Boulder	55	17,707	18,635	16,443	14,018	70	215	355	10,593	2,785
U. Texas M. D. Anderson Cancer Center	56	8,306	10,294	12,591	13,819	0	0	0	13,819	0
U. Washington, Seattle	57	21,497	16,437	15,458	13,491	99	57	5,528	5,398	2,409
U. New Hampshire	58	5,583	8,621	11,344	13,329	424	2,257	1,262	3,345	6,041
U. Delaware	59	13,731	12,868	12,936	13,326	0	3,332	131	2,664	7,199
Northeastern U.	60	11,039	11,540	11,615	13,062	0	3,567	1,347	3,735	4,413

TABLE 53

## Higher education R&amp;D expenditures in the social sciences, ranked by all FY 2021 social sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
U. California, Irvine	61	12,368	13,071	12,741	12,606	1,161	888	3,626	912	6,019
Carnegie Mellon U.	62	16,639	14,307	12,461	12,392	0	722	199	685	10,786
SUNY, U. Albany	63	21,269	20,704	20,551	12,288	1,074	1,268	8,245	1,514	187
U. Massachusetts, Boston	64	9,475	12,035	12,734	12,178	648	106	3,199	4,846	3,379
Colorado State U., Fort Collins	65	9,714	12,649	14,787	11,988	2,631	1,892	1,087	1,636	4,742
Indiana U.-Purdue U., Indianapolis	66	13,373	13,123	15,556	11,605	41	85	5,643	3,622	2,214
Virginia Polytechnic Institute and State U.	67	13,299	11,273	13,082	11,574	0	5,176	302	2,391	3,705
U. Nebraska, Lincoln	68	11,610	13,140	14,322	11,493	2	1,245	1,327	7,780	1,139
U. Cincinnati	69	11,252	12,083	11,291	11,451	125	0	1,170	2,320	7,836
U. Oklahoma, Norman and Health Science Center	70	16,337	17,363	25,818	11,396	2,253	1,353	2,654	134	5,002
Columbia U. in the City of New York	71	18,674	19,050	14,784	11,332	0	0	543	6,376	4,413
Texas Tech U.	72	7,523	10,463	11,877	11,235	0	6,351	979	919	2,986
North Carolina State U.	73	8,361	8,403	9,826	10,768	0	7,437	355	2,976	0
Boston C.	74	11,278	11,141	11,862	10,756	0	525	164	4,355	5,712
U. Tennessee, Knoxville <sup>C</sup>	75	12,480	12,661	12,171	10,596	2,054	4,877	1,551	940	1,174
U. New Mexico	76	9,784	10,707	10,624	10,544	997	453	69	3,997	5,028
U. Notre Dame	77	9,494	9,450	8,860	10,334	154	5,222	3,902	413	643
Iowa State U.	78	4,356	3,741	6,923	10,196	0	3,005	692	3,550	2,949
William & Mary	79	9,532	10,227	10,623	9,878	995	6	7,983	312	582
Kansas State U.	80	4,262	4,159	10,750	9,633	0	5,336	825	1,200	2,272
U. Alabama, Tuscaloosa	81	5,069	5,328	4,595	9,556	597	1,938	727	2,367	3,927
U. Texas, San Antonio	82	5,686	6,674	9,447	9,393	797	901	813	2,895	3,987
Boston U.	83	7,983	7,962	7,931	9,041	516	3,551	416	489	4,069
SUNY, U. Buffalo	84	10,024	9,937	6,356	8,687	4,783	32	1,564	2,308	0
Vanderbilt U. and Vanderbilt U. Medical Center	85	4,907	6,861	7,187	8,539	498	1,019	4,472	161	2,389
U. Illinois, Chicago	86	6,787	6,741	7,905	8,351	252	679	53	340	7,027
U. California, Santa Barbara	87	5,912	7,450	7,631	8,231	3	487	372	108	7,261
Temple U.	88	3,070	3,214	6,746	7,649	329	938	1,295	641	4,446
U. Nevada, Reno	89	5,521	7,113	7,053	7,637	1,581	3,367	1,165	652	872
Georgia Institute of Technology	90	5,764	5,773	33,645	7,467	0	703	346	1,768	4,650
Rutgers, State U. New Jersey, New Brunswick	91	7,649	7,779	7,005	7,351	420	2,767	406	1,591	2,167



TABLE 53

## Higher education R&amp;D expenditures in the social sciences, ranked by all FY 2021 social sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
U. Memphis	92	3,548	4,052	7,750	7,319	253	784	281	1,802	4,199
Alcorn State U.	93	4,461	5,428	5,659	7,181	0	7,181	0	0	0
Tulane U.	94	4,926	5,241	6,876	6,935	660	4,443	344	1,248	240
U. Central Florida	94	16,909	13,274	7,374	6,935	923	1,336	1,283	1,009	2,384
U. Massachusetts, Lowell	96	2,809	4,635	5,924	6,915	0	246	404	3,133	3,132
U. Connecticut	97	8,481	8,455	6,645	6,705	594	2,195	663	2,349	904
North Dakota State U.	98	8,857	9,396	15,215	6,686	0	5,073	0	1,043	570
Naval Postgraduate School	99	4,945	4,608	6,040	6,669	0	328	1,391	796	4,154
U. Missouri, Columbia	100	3,037	2,840	3,957	6,665	201	2,117	267	504	3,576
New Jersey Institute of Technology	101	0	0	8,315	6,602	0	6,602	0	0	0
California State U., Sacramento	102	5,981	7,331	7,680	6,544	169	245	384	5,676	70
U. Nevada, Las Vegas	103	4,149	6,344	6,306	6,536	910	2,663	838	790	1,335
U. Wisconsin-Milwaukee	104	4,331	4,973	6,710	6,531	2,792	810	292	2,499	138
Clemson U.	105	5,711	5,991	6,680	6,298	0	97	43	1,055	5,103
U. Utah	106	10,627	3,776	14,837	6,254	992	92	516	4,626	28
Auburn U., Auburn	107	5,940	5,387	6,902	6,228	0	160	1,640	721	3,707
U. Vermont	108	1,104	1,356	4,492	6,052	481	3,001	1,305	671	594
U. Iowa	109	6,913	7,575	6,875	6,010	17	598	518	728	4,149
Cleveland State U.	110	6,493	6,170	6,265	5,902	0	125	143	116	5,518
Case Western Reserve U.	111	3,195	3,170	4,386	5,880	107	0	0	194	5,579
Tuskegee U.	112	24	4,803	4,907	5,828	0	0	360	1,879	3,589
Oregon State U.	113	5,795	5,550	6,696	5,713	21	1,924	0	833	2,935
U. Massachusetts, Amherst	114	5,185	6,118	4,819	5,623	549	1,455	518	1,297	1,804
U. Illinois, Urbana-Champaign	115	9,255	6,846	5,846	5,604	617	1,290	875	216	2,606
Oklahoma State U., Stillwater	116	2,453	5,425	6,251	5,445	0	1,432	1,009	1,150	1,854
U. California, Santa Cruz	117	6,886	6,908	5,724	5,411	0	413	251	1,503	3,244
Johns Hopkins U. <sup>d</sup>	118	7,417	8,923	6,221	5,305	54	36	165	2,907	2,143
New School	119	2,966	3,802	3,790	5,293	143	2,019	463	1,156	1,512
U. California, Riverside	120	3,279	4,568	5,132	5,224	0	66	110	1,269	3,779
U. Texas, El Paso	121	3,903	3,951	4,161	4,964	13	1,942	1,204	1,658	147
Virginia Commonwealth U.	122	2,475	1,251	1,701	4,959	0	50	4,898	0	11

TABLE 53

## Higher education R&amp;D expenditures in the social sciences, ranked by all FY 2021 social sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
Kent State U.	123	4,529	5,031	4,793	4,930	300	709	577	1,110	2,234
San Diego State U.	124	4,811	5,054	5,106	4,876	720	869	727	625	1,935
U.S. Army War C.	125	ne	2,146 i	ne	4,662 i	0 i	0 i	0 i	0 i	4,662 i
Louisiana State U., Baton Rouge	126	4,296	3,704	4,888	4,537	0	2,640	325	296	1,276
U. Idaho	127	1,848	2,108	5,076	4,453	81	2,503	5	882	982
Texas State U.	128	3,308	4,217	4,907	4,437	0	0	0	1,117	3,320
Portland State U.	129	5,289	5,018	3,882	4,338	655	124	254	795	2,510
U. Arkansas, Fayetteville	130	4,857	4,375	7,186	4,212	152	284	797	738	2,241
U.S. Military Academy	131	138	78	284	4,179	0	2,990	164	27	998
U. Kentucky	132	1,659	765	3,696	4,075	59	2,661	168	636	551
U. Pittsburgh, Pittsburgh	133	4,743	4,662	4,990	4,070	66	399	893	271	2,441
U. North Texas, Denton	134	1,372	5,413	7,541	4,057	229	818	1,296	761	953
Northern Illinois U.	135	4,679	4,014	4,982	4,024	162	0	3,738	23	101
Emory U.	136	3,251	2,005	3,352	3,979	0	2,095	878	941	65
U. Louisiana, Lafayette	137	1,792	406	97	3,919	0	325	3,594	0	0
San Francisco State U.	138	3,085	3,629	3,648 i	3,892	74	313	190	1,030	2,285
U. Oregon	139	6,650	3,790	8,911	3,797	465	536	1,023	320	1,453
U. West Florida	140	12,234	7,858	4,237	3,779	0	491	0	375	2,913
Georgia Southern U.	141	515	308	113	3,743	345	985	615	413	1,385
West Virginia U.	142	2,752	2,356	3,590	3,681	0	766	591	415	1,909
Middle Tennessee State U.	143	597	1,325	1,583	3,668	549	1,555	1,084	207	273
Bowling Green State U.	144	3,025	3,683	3,333	3,631	0	249	562	787	2,033
Wayne State U.	145	2,431	3,342	3,289	3,585	115	224	139	223	2,884
U. Texas Rio Grande Valley	146	437	3,575	3,660	3,534	131	804	678	205	1,716
Claremont McKenna C.	147	4,552	4,997	4,545	3,532	0	853	1,243	0	1,436
U. Hawaii, Manoa	148	4,241	4,828	4,851	3,481	103	176	9	9	3,184
California State U., East Bay	149	ne	ne	677	3,331	0	1,178	2,074	4	75
Chapman U.	150	2,314	3,068	2,714	3,253	0	732	2,182	138	201
U. New Orleans	151	2,342	2,646	3,341	3,079	453	324	119	0	2,183
U. Alaska, Anchorage	152	1,916	2,233	3,306	3,020	161	476	60	0	2,323
U. North Carolina, Charlotte	153	2,632	3,658	3,973	2,947	98	171	1,364	545	769

TABLE 53

**Higher education R&D expenditures in the social sciences, ranked by all FY 2021 social sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
San Jose State U.	154	351	247	190	2,940	280	162	193	365	1,940
U. Southern Maine	155	3,820	3,431	2,963	2,867	0	91	0	50	2,726
U. Baltimore	156	3,707	3,392	3,367	2,824	0	1,903	219	0	702
Claremont Graduate U.	157	1,619	1,356	3,122	2,815	0	52	10	0	2,753
SUNY, Stony Brook U.	158	2,204	2,775	2,881	2,776	1,090	295	648	336	407
Clark U.	159	4,141	3,694	3,575	2,711	0	1,192	16	3	1,500
U. Texas, Dallas	160	2,940	2,480	2,166	2,666	0	160	1,535	783	188
Rochester Institute of Technology	161	2,441	2,623	2,584	2,603	0	0	250	1	2,352
Boise State U.	162	4,145	4,232	3,200	2,554	36	186	421	45	1,866
Kennesaw State U.	162	1,343	2,664	2,096	2,554	3	790	835	186	740
CUNY, Hunter C.	164	1,627	1,468	3,051	2,509	705	46	90	1,396	272
Utah State U.	165	1,695	1,591	2,601	2,417	0	1,226	24	1,167	0
U. Houston	166	7,860	2,714	1,536	2,404	0	376	1,598	113	317
U. Nebraska, Omaha	167	1,938	2,475	1,856	2,324	0	91	34	31	2,168
East Carolina U.	168	1,522	1,976	1,886	2,319	35	774	188	195	1,127
U. Maine	169	1,666	2,293	2,274	2,316	354	82	148	303	1,429
Drexel U.	170	3,195	3,028	2,854	2,271	0	30	187	282	1,772
U. Illinois, Springfield	171	2,076	1,699	2,838	2,260	0	0	1	0	2,259
Montana State U., Bozeman	172	407	582	1,126	2,194	0	0	530	460	1,204
National Defense U.	173	2,219	2,155	2,383	2,186	0	0	2,186	0	0
U. Southern Mississippi	174	2,734	5,373	3,645	2,134	0	0	0	0	2,134
Sam Houston State U.	175	3,065	2,465	2,444	1,970	0	0	11	115	1,844
U. Kansas	176	7,991	7,043	6,450	1,918	258	384	290	748	238
U. Missouri, Saint Louis	177	2,331	2,831	2,265	1,882	10	122	20	0	1,730
U. California, Merced	178	2,770	3,065	2,988	1,816	72	285	289	1,030	140
U. Mississippi	179	5,010	5,469	2,317	1,777	0	192	507	622	456
South Dakota State U.	180	1,536	1,600	1,967	1,772	0	829	0	370	573
Loyola Marymount U.	181	796	868	1,285	1,724	0	396	279	548	501
U. Denver	182	3,741	3,739	2,092	1,678	253	0	1,272	153	0
Old Dominion U.	183	1,501	2,279	2,482	1,659	0	237	163	61	1,198
U. Northern Iowa	184	1,458	1,924	1,510	1,657	0	17	0	5	1,635

TABLE 53

**Higher education R&D expenditures in the social sciences, ranked by all FY 2021 social sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
U. Massachusetts, central office	185	1,682	1,741	1,818	1,611	0	78	232	1,259	42
William Paterson U.	186	1,326	1,295	1,568	1,591	0	459	186	765	181
U. North Dakota	187	1,426	1,739	1,616	1,577	81	589	370	146	391
Bryn Mawr C.	188	1,535	1,480	1,573	1,542	361	214	457	157	353
Rensselaer Polytechnic Institute	189	433	451	1,175	1,535	0	624	0	0	911
Worcester Polytechnic Institute	190	453	1,457	1,760	1,515	0	0	0	0	1,515
U. New Haven	191	3,921	3,030	2,107	1,499	0	0	0	116	1,383
U. Wisconsin-La Crosse	192	1,019	945	1,024	1,487	0	614	11	12	850
Ball State U.	193	1,222	1,381	1,662	1,473	363	766	145	148	51
Winston-Salem State U.	194	150	453	724	1,458	0	1,117	74	267	0
Miami U.	195	992	471	582	1,444	1	231	54	0	1,158
Baylor U.	196	1,859	1,920	1,945	1,420	433	185	15	612	175
U. Rhode Island	197	3,204	2,432	2,377	1,417	3	565	85	0	764
Humboldt State U.	198	388	308	616	1,385	548	266	0	330	241
Saint Louis U.	199	326	272	448	1,380	0	1,043	23	314	0
Montclair State U.	200	65	1,123	2,138	1,378	97	155	195	121	810
Washington U., Saint Louis	201	1,556	1,259	1,191	1,374	584	55	162	225	348
Rutgers, State U. New Jersey, Camden	202	519	562	733	1,339	0	0	10	273	1,056
U. Louisville	203	1,269	2,342	1,593	1,330	50	0	172	199	909
CUNY, Graduate Center	204	2,538	3,090	2,238	1,325	165	88	665	407	0
Eastern Washington U.	205	1,552	1,126	1,613	1,318	0	0	0	0	1,318
Michigan Technological U.	206	1,863	1,386	1,260	1,279	0	0	0	0	1,279
U. Alaska, Fairbanks	207	1,071	1,162	1,810	1,248	132	0	2	11	1,103
Colorado School of Mines	208	1,411	571	1,403	1,220	244	976	0	0	0
U. Puerto Rico, Rio Piedras	209	1,192	1,333	1,119	1,185	0	0	0	0	1,185
U. North Carolina, Wilmington	210	136	390	709	1,183	17	102	29	96	939
Grand Valley State U.	211	1,225	964	657	1,178	1	164	1	51	961
U. North Carolina, Greensboro	212	1,326	728	747	1,155	27	509	73	126	420
Loyola U., Chicago	213	414	700	800	1,139	212	0	3	50	874
Louisiana Tech U.	214	579	706	726	1,136	0	0	204	0	932
California State U., Los Angeles	215	1,619	1,659	1,570	1,131	0	0	0	0	1,131

TABLE 53

## Higher education R&amp;D expenditures in the social sciences, ranked by all FY 2021 social sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
Illinois State U.	216	900	796	2,276	1,105	0	330	34	10	731
Northwest Indian C.	217	0	1,054	1,044	1,096	0	0	0	1,096	0
U. Wyoming	218	10,249	477	535	1,086	401	454	0	3	228
Creighton U.	219	1,010	1,135	933	1,068	24	202	217	168	457
Hampton U.	220	1,804	1,604	710	1,041	0	0	0	0	1,041
Hofstra U.	221	116	103	64	1,032	189	242	101	33	467
Gallaudet U.	222	37	82	173	1,006	0	0	0	1,006	0
Southern Illinois U., Carbondale	223	1,118	1,249	954	996	0	54	383	313	246
Howard U.	224	1,028	843	827	952	0	457	109	386	0
California Polytechnic State U., San Luis Obispo	225	505	256	675	930	0	623	98	69	140
Brigham Young U., Provo	226	656	1,052	924	927	41	237	600	49	0
Northwestern State U. Louisiana	227	570	657	738	919	0	0	0	0	919
Texas A&M International U.	228	44	17	59	914	3	0	0	50	861
Long Island U.	229	4	2	847	906	42	172	442	250	0
Ohio U.	230	1,630	1,377	960	897	0	6	0	27	864
Eastern Michigan U.	231	761	752	1,039	892	93	85	113	228	373
Texas Southern U.	232	0	0	490	845	0	0	0	0	845
Fielding Graduate U.	233	ne	ne	ne	843	0	0	0	0	843
U. Alabama, Huntsville	234	3,227	2,325	1,717	820	0	611	60	149	0
Western Washington U.	235	1,077	817	690	818	122	9	95	69	523
American Samoa Community C.	236	ne	0	ne	815	0	0	0	0	815
Williams C.	237	1,368	873	827	812	27	397	27	1	360
Naval War C.	238	5,270	679	724	794	0	0	794	0	0
Tarleton State U.	239	12	145	639	778	0	0	130	591	57
Wellesley C.	240	263	1,240	1,402	722	3	344	61	0	314
Wake Forest U.	241	103	901	460	689	4	200	270	215	0
Grinnell C.	242	556	917	755	686	299	137	9	241	0
California State U., San Marcos	243	441	990	884	680	0	0	0	0	680
CUNY, Baruch C.	244	637	728	897	677	0	2	87	477	111
Rutgers, State U. New Jersey, Newark	245	3,248	1,052	1,678	672	0	0	99	0	573
Fordham U.	246	993	964	1,095	662	0	227	0	92	343

TABLE 53

**Higher education R&D expenditures in the social sciences, ranked by all FY 2021 social sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
Catholic U. of America	247	358	402	502	651	0	5	8	635	3
California State U., Long Beach	248	646	723	625	645	80	32	4	107	422
Winthrop U.	249	86	184	371	642	67	3	380	0	192
Hope C.	250	61	0	673	639	0	71	16	3	549
Des Moines U.	251	52	155	561	593	i 330	i 0	i 0	i 263	i 0
CUNY, Queens C.	252	659	696	477	579	84	34	74	300	87
Carleton C.	253	0	432	464	577	43	191	157	108	78
New Mexico State U.	254	504	653	469	570	81	400	73	6	10
CUNY, John Jay C. of Criminal Justice	255	1,729	349	210	569	9	19	87	441	13
Central Connecticut State U.	256	ne	504	519	541	0	5	3	8	525
U. Northern Colorado	257	506	314	346	534	92	0	0	197	245
Amherst C.	258	625	879	488	530	i 54	i 43	i 270	i 12	i 151
Southern Methodist U.	259	1,038	1,595	326	529	257	165	95	12	0
Delaware State U.	260	394	169	639	i 528	0	78	0	250	200
West Chester U. Pennsylvania	261	664	958	892	524	37	287	34	48	118
U. South Alabama	262	532	628	586	515	0	0	4	89	422
Andrews U.	263	ne	715	670	509	121	29	40	120	199
Tennessee State U.	263	0	3	481	509	i 0	i 0	i 0	i 0	i 509
Pepperdine U.	265	112	71	213	503	0	133	116	156	98
Salisbury U.	266	493	581	485	488	0	472	0	0	16
Embry-Riddle Aeronautical U.	267	225	394	714	476	0	0	0	0	476
Sul Ross State U.	268	921	774	451	466	i 0	i 0	i 0	i 0	i 466
Texas A&M U.-Corpus Christi	269	106	77	151	464	0	251	0	8	205
U. Miami	270	2,160	2,294	1,812	463	0	0	0	170	293
Davidson C.	271	186	247	161	456	2	0	2	190	262
Villanova U.	272	840	752	656	433	0	217	189	27	0
Marquette U.	273	933	784	1,008	431	0	70	330	16	15
Reed C.	274	58	322	439	422	i 10	i 83	i 313	i 2	i 14
Trinity U.	275	402	718	501	411	0	316	29	66	0
Connecticut C.	276	133	588	517	407	0	0	0	0	407
Southern Connecticut State U.	277	252	289	505	400	85	273	0	42	0

TABLE 53

## Higher education R&amp;D expenditures in the social sciences, ranked by all FY 2021 social sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
California State U., Northridge	278	448	695	559	393	0	10	0	0	383
St. Cloud State U.	278	202	278	206	393	80	61	153	34	65
U. Texas of the Permian Basin	280	0	ne	320	380	0	0	0	0	380
Wichita State U.	280	8	44	36	380	59	0	41	66	214
Franklin and Marshall C.	282	156	297	440	376	12	7	90	14	253
U. Colorado Denver <sup>e</sup>	283	na	na	na	359	63	53	0	119	124
Marymount U.	284	ne	ne	ne	356	0	89	89	89	89
Middlebury C.	285	74	137	65	353	57	92	98	0	106
U. Colorado Anschutz Medical Campus <sup>e</sup>	286	na	na	na	352	0	0	0	232	120
U. Rochester	287	180	219	279	343	28	0	52	0	263
California State U., Fullerton	288	67	212	110	342	45	69	23	132	73
Southern Illinois U., Edwardsville	289	125	315	286	334	242	0	0	0	92
Pomona C.	290	723	580	620	330	24	109	105	0	92
U. Maryland Center for Environmental Science	291	89	219	216	326	0	291	0	33	2
Hamilton C.	292	286	216	274	322	41	2	153	38	88
Barnard C.	293	274	432	293	320	87	136	7	21	69
U. Alabama, Birmingham	294	609	803	246	317	0	0	0	170	147
U. South Dakota	295	356	373	504	316	16	0	300	0	0
California State U., Dominguez Hills	296	102	58	186	314	0	0	6	294	14
Colgate U.	297	419	440	268	309	12	186	67	44	0
Indiana U. Pennsylvania	298	724	939	842	303	110	65	0	75	53
Fayetteville State U.	299	151	151	111	293	0	233	0	0	60
Western Carolina U.	300	52	215	292	290	289	0	0	0	1
Occidental C.	301	203	8	190	287	0	0	0	105	182
Alabama A&M U.	302	560	i 437 i	298 i	283 i	0 i	0 i	46 i	82 i	155 i
Wheaton C., Wheaton	303	835	1,132	515	282	0	39	47	26	170
U. North Florida	304	556	788	633	277	0	4	2	220	51
Arkansas State U., Jonesboro	305	176	36	148	267	0	267	0	0	0
Appalachian State U.	306	175	226	585	265	24	103	8	74	56
Elon U.	307	259	209	274	264	21	70	53	41	79
Missouri State U.	308	410	367	357	263	0	0	0	43	220

TABLE 53

**Higher education R&D expenditures in the social sciences, ranked by all FY 2021 social sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
Pennsylvania State U., Harrisburg	309	1,407	1,477	1,178	258	0	0	126	132	0
North Carolina Central U.	310	521	662	415	250	0	0	0	0	250
U. of the Virgin Islands	311	0	1	228	248	0	220	10	0	18
Rhode Island School of Design	312	118	145	137	247	0	0	0	0	247
Western Michigan U. and Homer Stryker M.D. School of Medicine	313	420	844	169	245	0	2	1	83	159
Towson U.	314	124	198	264	238	38	83	21	15	81
California State U., Chico	315	340	453	426	237	71	33	95	6	32
Pacific U.	316	99	294	90	236	0	4	0	232	0
Hawaii Pacific U.	317	398	350	215	232	0	33	0	199	0
Christopher Newport U.	318	87	0	148	216	52	46	21	0	97
CUNY, Lehman C.	319	964	739	180	213	42	3	10	158	0
Idaho State U.	319	234	279	240	213	171	0	38	4	0
Lehigh U.	321	162	86	95	212	0	160	0	50	2
U. Richmond	322	533	579	394	211	3	148	60	0	0
U. San Diego	323	287	614	289	209	0	0	7	5	197
California State U., San Bernardino	324	1,270	534	320	208	11	0	8	9	180
U. Guam	325	174	256	154	205	0	0	0	205	0
Stephen F. Austin State U.	326	292	213	250	203	3	27	0	6	167
Western Illinois U.	327	231	201	199	199	0	0	0	199	0
Niagara U.	328	371	393	22	195	0	0	0	5	190
Swarthmore C.	329	211	339	274	194	0	140	23	31	0
Vassar C.	330	382	111	128	193	6	48	34	5	100
Western Kentucky U.	331	162	207	106	189	10	8	62	104	5
U. Missouri, Kansas City	332	600	878	907	180	0	94	14	11	61
U. Hawaii, Hilo	333	160	348	207	179	6	0	0	0	173
Seattle U.	334	232	162	200	176	0	0	0	0	176
U. Washington, Tacoma	335	12	36	124	175	0	0	0	0	175
SUNY, Buffalo State	336	339	260	250	174	0	0	0	0	174
U. Tulsa	336	69	92	243	174	174	0	0	0	0
Bates C.	338	83	308	161	173	28	73	41	13	18



TABLE 53

## Higher education R&amp;D expenditures in the social sciences, ranked by all FY 2021 social sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021						
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec	
Albion C.	339	122	102	176	171	64	64	23	20	0	
Azusa Pacific U.	339	233	701	274	171	0	0	28	3	140	
U. Puerto Rico, Cayey	339	84	150	460	171	0	10	0	161	0	
CUNY, Brooklyn C.	342	236	238	243	169	19	0	0	146	4	
U. Louisiana, Monroe	342	235	182	144	169	0	0	2	0	167	
Northern Arizona U.	344	371	724	419	167	12	72	1	55	27	
California State U., Fresno	345	523	700	456	165	12	0	148	5	0	
Morehead State U.	345	46	5	267	165	1	0	0	0	164	
Saint Joseph's U.	345	56	172	194	165	0	5	9	13	138	
Pittsburg State U.	348	42	100	132	163	0	163	0	0	0	
Oakland U.	349	66	312	45	161	0	0	28	133	0	
Macalester C.	350	154	194	182	160	0	0	160	0	0	
Morgan State U.	350	273	3	98	160	0	0	0	10	150	
U. Minnesota, Duluth	352	110	123	82	154	11	0	23	0	120	
Florida Atlantic U.	353	107	142	210	153	0	0	0	0	153	
Central Michigan U.	354	171	215	169	152	0	1	3	111	37	
Colby C.	355	197	111	222	150	18	58	12	3	59	
James Madison U.	355	394	61	37	150	0	0	131	0	19	
U. San Francisco	357	149	300	397	148	3	26	2	90	27	
California State U., Bakersfield	358	351	391	264	146	39	0	63	26	18	
Haverford C.	358	144	178	336	146	9	39	34	13	51	
Wesleyan U.	360	1,890	1,040	454	136	5	31	66	19	15	
U. Houston-Downtown	361	78	143	247	128	0	0	55	0	73	
Bucknell U.	362	234	119	149	126	25	25	7	57	12	
Saint John's U.	363	205	202	192	125	8	33	29	11	44	
Lincoln U., Jefferson City	364	130	112	92	120	0	120	0	0	0	
Colorado C.	365	569	413	363	117	8	38	34	37	0	
Trinity C., Hartford	365	181	272	163	117	52	10	48	2	5	
C. of Saint Benedict	367	69	68	65	114	8	30	26	10	40	
Stockton U.	367	230	49	140	114	0	0	0	114	0	
Purdue U., Fort Wayne	369	230	24	22	108	0	0	0	0	108	

TABLE 53

## Higher education R&amp;D expenditures in the social sciences, ranked by all FY 2021 social sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
SUNY, Geneseo	369	197	157	124	108	5	0	16	6	81
Claflin U.	371	0	0	75	107	0	107	0	0	0
Mount Holyoke C.	372	285	295	168	106	0	0	0	106	0
Mercer U.	373	73	57	81	105	0	54	0	51	0
Saginaw Valley State U.	373	18	124	106	105	0	4	0	15	86
Santa Clara U.	375	176	135	116	102	7	0	75	20	0
Texas A&M U.-Commerce	376	0	66	139	99	0	22	0	42	35
Northern Kentucky U.	377	46	43	95	98	0	0	85	13	0
Ithaca C.	378	ne	ne	176	94	42	3	3	37	9
Smith C.	379	173	549	151	93	12	21	40	20	0
U. Arkansas, Little Rock	379	70	116	27	93	0	0	0	0	93
U. Puerto Rico, Mayaguez	379	67	96	233	93	0	6	0	87	0
U. Wisconsin-Platteville	379	ne	62	63	93	0	0	23	21	49
Calvin U.	383	86	105	98	88	0	0	27	45	16
Central Washington U.	383	195	119	116	88	68	0	18	0	2
U. Wisconsin-Eau Claire	383	33	77	72	88	32	8	48	0	0
Tennessee Technological U.	386	16	24	55	87	0	34	38	12	3
Mercyhurst U.	387	ne	81	84	86	2	0	21	18	45
Lafayette C.	388	47	54	119	85	9	33	17	0	26
St. Olaf C.	389	83	139	219	84	0	8	4	16	56
Texas Woman's U.	390	0	50	200	83	0	0	0	0	83
Fairfield U.	391	0	0	20	79	0	22	2	51	4
U. Texas, Arlington	391	132	160	104	79	0	0	24	11	44
U. Wisconsin-Oshkosh	393	57	63	69	75	5	70	0	0	0
Texas Christian U.	394	83	591	319	74	0	0	0	28	46
Florida Polytechnic U.	395	ne	4	31	73	0	73	0	0	0
Jackson State U.	395	112	325	201	73	0	0	67	0	6
Northland C.	397	ne	ne	ne	72	0	0	0	21	51
SUNY, Oswego	398	15	48	77	71	0	0	48	10	13
California State U., Stanislaus	399	55	39	44	70	25	0	0	6	39
Missouri U. of Science and Technology	400	195	134	61	69	0	64	0	5	0

TABLE 53

## Higher education R&amp;D expenditures in the social sciences, ranked by all FY 2021 social sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
North Carolina Agricultural and Technical State U.	400	0	0	67	69	0	0	0	69	0
Rowan U.	402	119	66	311	65	0	0	0	7	58
Eastern Kentucky U.	403	14	20	18	64	64	0	0	0	0
U. Wisconsin-Green Bay	403	57 i	79 i	73 i	64 i	3 i	13 i	9 i	13 i	26 i
U. Michigan, Dearborn	405	131	245	114	62	0	0	0	43	19
Norfolk State U.	406	0	0	0	58	0	0	0	58	0
Skidmore C.	406	51	163	41	58	0	8	49	1	0
Northern Michigan U.	408	0	0	109	55	7	17	13	18	0
U. Hartford	408	0	0	0	55	0	0	0	55	0
U. Akron	410	261	154	95	54	12	18	0	7	17
Spelman C.	411	208	43	129	53	0	53	0	0	0
Sonoma State U.	412	ne	ne	40	51	1	11	5	5	29
U. Houston-Clear Lake	412	23	63	120	51	0	0	0	0	51
St. Edward's U.	414	150	366	340	50	0	30	10	10	0
C. Charleston	415	181	162	113	48	0	0	15	14	19
California State U., Monterey Bay	416	285	111	0	47	0	40	0	7	0
U. Toledo	416	650	257	378	47	0	0	0	7	40
Duquesne U.	418	126	21	6	46	0	0	5	41	0
East Tennessee State U.	418	1,172 i	406 i	88 i	46 i	0 i	0 i	0 i	46 i	0 i
Monmouth U.	420	ne	30	1	45	45	0	0	0	0
DePaul U.	421	283	23	22	43	4	17	10	12	0
Pennsylvania State U., Behrend	421	53	53	15	43	0	20	0	23	0
Clarkson U.	423	97	83	74	42	2	0	21	7	12
U. Massachusetts, Dartmouth	423	574	848	499	42	12	2	6	0	22
U. Wisconsin-Superior	423	0	0	230	42	0	0	42	0	0
Augusta U.	426	31	178	128	41	0	0	0	0	41
Biola U.	427	36 i	39 i	40 i	40 i	1 i	0 i	9 i	8 i	22 i
Northeastern Illinois U.	427	0	82	48	40	0	0	0	0	40
U. of Mary Washington	427	96	90	73	40	0	0	0	40	0
Dillard U.	430	688	348	189	38	0	0	0	0	38
U. Colorado Colorado Springs	431	16	39	124	36	14	0	0	0	22

TABLE 53

## Higher education R&amp;D expenditures in the social sciences, ranked by all FY 2021 social sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
U. Minnesota, Morris	432	ne	139	18	33	0	26	6	0	1
Youngstown State U.	432	50	39	32	33	0	0	0	0	33
Drake U.	434	46	35	ne	31	0	15	10	0	6
New York Institute of Technology	434	0	0	70	31	0	0	0	0	31
Union C., Schenectady	434	55	72	111	31	4	10	6	6	5
Hobart and William Smith Colleges	437	ne	39	31	30	0	7	19	0	4
U. Texas, Tyler	438	0	45	19	27	0	0	0	27	0
U. Virginia's C. Wise	438	ne	ne	ne	27	0	4	0	0	23
Oberlin C.	440	78	97	77	26	9	4	13	0	0
Northeast Ohio Medical U.	441	112	88	40	23	15	0	0	8	0
California State U., Channel Islands	442	38	68	45	22	14	0	0	6	2
SUNY, C. of Environmental Science and Forestry	442	575	330	110	22	0	0	0	15	7
CUNY, C. Staten Island	444	15 i	14	4	21	8	9	0	0	4
U. Tennessee, Chattanooga	444	93	88	68	21	0	0	3	18	0
U. Nebraska, Kearney	446	410	76	104	19	0	1	3	0	15
U. Oklahoma, Tulsa	446	27	126	142	19	0	0	4	0	15
Bowdoin C.	448	62	243	191	18	6	3	7	2	0
Providence C.	448	48	5	18	18	0	14	1	3	0
Liberty U.	450	ne	13	5	17	0	0	16	0	1
Prairie View A&M U.	450	48	0	213	17	0	12	0	5	0
C. Wooster	452	85	283	18	16 i	2 i	1 i	8 i	5 i	0 i
CUNY, City C.	452	101	42	6	16	0	0	2	8	6
U. Dayton	454	115	109	38	15	0	0	7	8	0
U. Michigan, Flint	455	128	3	14	14	0	0	2	0	12
Illinois Institute of Technology	456	563	254	100	13	0	0	0	0	13
Rhode Island C.	456	23	19	35	13	11	0	0	2	0
Abilene Christian U.	458	ne	ne	ne	11	1	10	0	0	0
Albany State U.	458	0	0	0	11	0	0	0	11	0
CUNY, New York City C. of Technology	458	9	4	6	11	0	0	5	0	6
Fort Hays State U.	458	ne	20	10	11	0	0	1	5	5
Lewis and Clark C.	458	29	5	20	11	11	0	0	0	0

TABLE 53

## Higher education R&amp;D expenditures in the social sciences, ranked by all FY 2021 social sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
Southeastern Louisiana U.	458	226	176	264	11	0	11	0	0	0
Indiana U., South Bend	464	37	ne	ne	10	5	0	0	5	0
Troy U.	464	ne	ne	20	10	4	0	1	1	4
U. Hawaii, Maui C.	464	ne	ne	ne	10	0	0	0	10	0
California State Polytechnic U., Pomona	467	0	0	39	9	9	0	0	0	0
U. Alaska, Southeast	467	0	0	0	9	0	0	0	0	9
Florida Gulf Coast U.	469	132	81	118	8	0	5	0	0	3
U.S. Naval Academy	469	45	0	0	8	0	8	0	0	0
Fisk U.	471	0	0	2	7	0	7	0	0	0
U. Wisconsin-Stevens Point	471	4 i	5 i	5	7	0	0	0	0	7
Citadel Military C. South Carolina	473	ne	ne	16	6	0	0	2	0	4
Colorado State U., Pueblo	473	ne	7	0	6	0	0	0	6	0
SUNY, C. Brockport	473	31	70	81	6	0	0	0	6	0
U. North Texas, Health Science Center	473	474	1,025	866	6	0	0	0	6	0
Florida A&M U.	477	171	5	21	5	0	0	0	0	5
Furman U.	477	26	13	164	5	0	2	2	1	0
Pace U.	477	68	52	192	5	0	0	4	0	1
U. North Georgia	477	105	50	0	5	0	4	0	1	0
Willamette U.	481	81	13	3	4	0	0	3	0	1
Eastern Connecticut State U.	482	235	198	2	3	0	0	0	3	0
Marshall U.	482	1	1	5	3	0	0	0	0	3
U. of St. Thomas (MN)	482	7	4	34	3	0	3	0	0	0
U.S. Air Force Academy	482	1,381	2,464	292	3	0	3	0	0	0
U. Central Arkansas	486	16	5	43	2	0	0	0	2	0
C. New Jersey	487	18	ne	54	1	0	0	0	0	1
Dordt U.	487	ne	ne	ne	1	0	0	0	1	0
Purdue U., Northwest	487	3	0	9	1	0	0	0	0	1
Southern U. and A&M C., Baton Rouge	487	0	0	528	1	0	0	0	1	0
All other surveyed institutions	-	77,862	3,359	2,856	0	0	0	0	0	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

nec = not elsewhere classified.

<sup>a</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

<sup>b</sup> The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

<sup>c</sup> The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

<sup>d</sup> Johns Hopkins University includes the Applied Physics Laboratory (APL), with \$2,402 thousand imputed for total R&D expenditures in social sciences in FY 2021. Total expenditures by field for Johns Hopkins University are flagged as imputed because APL was unable to distribute a portion of institutionally funded R&D by field.

<sup>e</sup> The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

**Note(s):**

Institutions reporting zero expenditures in ranked total for FY 2021 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 54

## Federally financed higher education R&amp;D expenditures in the social sciences, ranked by all FY 2021 social sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
All institutions	-	937,739	938,459	968,843	955,852	29,533	137,555	86,443	232,318	470,003
U. Michigan, Ann Arbor	1	100,114	91,183	89,211	85,904	585	22,358	15,647	15,468	31,846
U. North Carolina, Chapel Hill	2	91,658	84,279	56,291	43,473	94	142	1,117	37,930	4,190
U. Southern California	3	20,665	25,317	28,212	41,252	0	219	0	36	40,997
U. Maryland <sup>a</sup>	4	na	38,235	36,918	35,980	582	550	1,823	2,524	30,501
Harvard U.	5	24,768	25,188	27,768	32,441	36	3,322	250	863	27,970
U. Wisconsin-Madison	6	21,506	19,987	24,863	26,100	14	1,646	1,869	2,711	19,860
Duke U.	7	20,189	19,689	20,611	21,294	1,073	1,759	279	10,016	8,167
Brown U.	8	7,936	13,087	17,975	20,519	0	142	0	185	20,192
Michigan State U.	9	7,979	9,867	23,664	20,456	113	9,251	128	979	9,985
Arizona State U.	10	18,301	22,385	21,158	19,939	2,894	1,102	1,086	1,628	13,229
U. Minnesota, Twin Cities	11	17,575	17,160	15,486	18,265	38	1,914	581	15,226	506
U. South Florida <sup>b</sup>	12	11,837	14,684	14,278	15,894	279	21	0	964	14,630
U. California, Davis	13	9,557	10,773	12,384	13,706	0	3,586	3,426	945	5,749
U. Chicago	14	8,647	9,073	10,380	13,190	47	1,808	547	1,952	8,836
U. Texas, Austin	15	9,066	9,604	10,339	12,928	928	88	70	8,821	3,021
U. Pennsylvania	16	15,056	14,723	16,651	12,742	373	701	232	10,089	1,347
Northwestern U.	17	5,326	6,433	8,526	11,898	69	3,877	88	0	7,864
Texas A&M U., College Station and Health Science Center	18	9,652	9,649	8,838	11,023	744	2,538	841	1,105	5,795
Mississippi State U.	19	17,953	18,611	17,297	10,795	7	114	0	1,135	9,539
Pennsylvania State U., University Park and Hershey Medical Center	20	12,966	11,862	12,255	10,718	12	2,547	403	7,756	0
Georgia State U.	21	3,176	3,784	5,873	10,424	73	598	101	3,775	5,877
Ohio State U.	22	7,671	8,342	10,746	9,443	256	2,148	209	3,315	3,515
Indiana U., Bloomington	23	9,127	10,425	9,654	9,435	92	1,788	3,460	1,454	2,641
U. Georgia	24	6,882	5,083	6,118	9,262	372	6,760	101	15	2,014
U. Colorado Boulder	25	11,913	13,373	11,527	9,168	57	172	0	6,833	2,106
U. New Hampshire	26	2,799	3,890	6,208	8,913	0	1,245	92	1,567	6,009
George Washington U.	27	9,194	8,306	8,955	8,227	679	463	72	1,731	5,282
Northeastern U.	28	4,097	3,542	4,688	8,200	0	3,485	479	1,561	2,675
U. South Carolina, Columbia	29	2,354	6,019	7,078	7,877	1,022	0	69	5,861	925
U. California, Los Angeles	30	11,416	9,826	9,105	7,673	0	20	11	1,033	6,609

TABLE 54

**Federally financed higher education R&D expenditures in the social sciences, ranked by all FY 2021 social sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
George Mason U.	31	3,375	3,999	6,074	7,601	0	0	187	263	7,151
Washington State U.	32	4,860	3,496	4,140	7,120	183	1,587	12	143	5,195
U. Washington, Seattle	33	10,318	6,874	6,333	6,899	33	48	1,670	4,380	768
Colorado State U., Fort Collins	34	4,918	7,399	8,715	6,894	2,401	824	277	1,210	2,182
Princeton U.	35	2,818	5,606	5,802	6,743	60	453	2,212	3,984	34
New York U.	36	5,584	5,936	5,450	6,585	0	387	1,112	1,886	3,200
Georgetown U.	37	6,057	6,863	6,531	6,531	0	0	5,298	1	1,232
U. Arizona	38	4,993	6,362	6,264	6,333	1,694	81	267	1,221	3,070
Stanford U.	39	5,498	5,655	5,291	5,926	49	1,014	1,327	164	3,372
U. Maryland, Baltimore County	40	7,698	7,192	5,801	5,898	0	0	0	233	5,665
Brandeis U.	41	7,395	9,093	6,882	5,849	5	0	56	721	5,067
U. Delaware	42	7,286	6,373	6,459	5,713	0	1,085	47	1,172	3,409
Naval Postgraduate School	43	3,480	3,663	4,623	5,622	0	112	1,317	680	3,513
U. Florida	44	4,583	4,981	4,981	5,584	581	1,039	1,063	22	2,879
Massachusetts Institute of Technology	45	5,763	5,668	6,424	5,534	0	3,165	199	24	2,146
U. California, Berkeley	46	5,761	6,390	5,489	5,495	51	2,653	291	434	2,066
U. Nebraska, Lincoln	47	5,467	6,886	6,959	5,443	0	482	41	4,549	371
Iowa State U.	48	844	708	1,186	5,410	0	452	71	2,096	2,791
Cornell U.	49	11,736	9,839	7,441	5,374	21	1,547	64	1,880	1,862
U. California, San Diego	50	4,671	3,367	2,924	5,282	0	572	1,315	3,388	7
Clemson U.	51	3,092	3,458	3,840	4,781	0	0	7	947	3,827
Teachers C., Columbia U.	52	5,262	4,267	3,856	4,698	0	4,247	0	0	451
U.S. Army War C.	53	ne	2,146	ne	4,662	0	0	0	0	4,662
Purdue U., West Lafayette	54	4,049	1,732	5,955	4,550	196	3,358	27	879	90
North Carolina State U.	55	2,923	3,151	3,537	4,445	0	2,622	114	1,709	0
William & Mary	56	5,574	4,521	5,018	4,366	120	0	4,125	0	121
Florida International U.	57	1,439	4,506	2,885	4,126	0	134	73	2	3,917
U. Massachusetts, Lowell	58	858	2,212	3,021	4,000	0	0	0	2,204	1,796
U. New Mexico	59	4,220	4,231	4,420	3,915	749	236	8	785	2,137
U. Louisiana, Lafayette	60	680	270	0	3,730	0	154	3,576	0	0
U. Virginia, Charlottesville	61	1,666	2,098	3,246	3,713	204	464	9	416	2,620



TABLE 54

**Federally financed higher education R&D expenditures in the social sciences, ranked by all FY 2021 social sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
American U.	62	4,905	7,055	6,887	3,675	0	78	222	505	2,870
Boston C.	63	3,046	2,549	3,307	3,631	0	145	107	2,991	388
U. Connecticut	64	4,117	3,749	3,621	3,562	196	1,283	186	1,334	563
Alcorn State U.	65	1,961	2,377	2,807	3,532	0	3,532	0	0	0
U. Oklahoma, Norman and Health Science Center	66	8,099	9,485	13,505	3,475	648	0	1,830	0	997
Kansas State U.	67	725	720	4,175	3,447	0	2,417	62	480	488
U. Utah	68	4,479	1,897	8,098	3,396	661	0	273	2,462	0
Case Western Reserve U.	69	1,866	1,821	3,051	3,291	107	0	0	142	3,042
U. Texas M. D. Anderson Cancer Center	70	1,787	2,352	2,968	3,279	0	0	0	3,279	0
Syracuse U.	71	2,509	2,989	3,007	3,260	46	0	1,446	379	1,389
Oregon State U.	72	2,852	2,723	3,220	3,251	21	684	0	456	2,090
Carnegie Mellon U.	73	6,788	5,919	4,678	3,225	0	354	51	140	2,680
Texas State U.	74	2,110	3,217	3,931	3,212	0	0	0	1,117	2,095
U. Massachusetts, Boston	75	2,794	3,176	3,481	3,169	230	0	153	2,478	308
Virginia Polytechnic Institute and State U.	76	5,024	3,667	4,272	3,156	0	1,836	183	572	565
Georgia Institute of Technology	77	3,059	2,412	21,373	3,055	0	55	31	124	2,845
Tufts U.	78	2,365	2,609	1,200	2,961	134	431	22	85	2,289
Vanderbilt U. and Vanderbilt U. Medical Center	79	2,022	2,126	2,189	2,959	65	16	2,523	26	329
Auburn U., Auburn	80	2,666	2,837	2,573	2,819	0	10	5	113	2,691
U. Idaho	81	1,104	1,625	3,073	2,779	0	1,293	5	679	802
Johns Hopkins U. <sup>c</sup>	82	6,083	7,453	4,910	2,726	51	0	0	2,407	268
U. Montana, Missoula	83	3,445	2,055	1,795	2,719	388	2,095	0	230	6
U. Cincinnati	84	2,500	2,068	2,376	2,660	65	0	197	541	1,857
Tulane U.	85	771	1,331	2,175	2,598	10	2,161	0	402	25
Columbia U. in the City of New York	86	4,042	2,951	3,357	2,513	0	0	58	1,680	775
Tuskegee U.	87	24	2,065	2,109	2,500	0	0	360	1,879	261
U. Illinois, Chicago	88	1,543	1,397	1,549	2,396	0	115	0	0	2,281
Indiana U.-Purdue U., Indianapolis	89	2,925	3,599	3,263	2,395	0	6	1,742	70	577
U. Illinois, Urbana-Champaign	90	2,672	2,950	2,192	2,343	309	14	334	123	1,563
U. Iowa	91	2,465	2,976	2,393	2,309	0	136	184	472	1,517
U. Wisconsin-Milwaukee	92	1,465	1,418	2,273	2,243	321	102	11	1,714	95

TABLE 54

## Federally financed higher education R&amp;D expenditures in the social sciences, ranked by all FY 2021 social sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
Rice U.	93	842	701	1,719	2,229	63	151	385	1,585	45
U. Pittsburgh, Pittsburgh	94	2,976	2,594	2,348	2,223	25	198	419	184	1,397
National Defense U.	95	2,219	2,155	2,383	2,186	0	0	2,186	0	0
U. California, Irvine	96	2,386	1,510	1,829	2,142	317	235	524	354	712
Yale U.	97	2,708	1,398	1,833	2,083	184	1,133	182	536	48
U. Memphis	98	412	423	973	2,072	0	0	0	998	1,074
Florida State U.	99	1,463	1,564	1,463	2,050	66	49	303	385	1,247
U. Nevada, Reno	100	1,634	2,342	2,237	2,017	514	1,401	19	32	51
Rutgers, State U. New Jersey, New Brunswick	101	903	727	1,308	2,003	96	1,700	99	69	39
SUNY, U. Albany	102	4,784	5,428	5,008	1,902	96	15	1,554	50	187
U. Massachusetts, Amherst	103	1,128	1,563	2,031	1,889	138	396	169	879	307
U. Texas, San Antonio	104	1,768	1,572	1,596	1,848	200	0	23	501	1,124
U. Southern Maine	105	2,085	2,236	2,034	1,827	0	0	0	0	1,827
U. Alabama, Tuscaloosa	106	1,926	2,035	1,549	1,711	139	2	0	263	1,307
U. California, Santa Barbara	107	696	816	1,238	1,686	0	0	30	0	1,656
Portland State U.	108	1,645	1,518	1,476	1,663	524	65	254	146	674
U. Kentucky	109	719	418	1,146	1,628	32	728	166	620	82
U. Alaska, Anchorage	110	788	896	1,564	1,625	161	84	0	0	1,380
U. Notre Dame	111	2,310	1,568	1,391	1,611	14	293	1,056	232	16
U. Tennessee, Knoxville <sup>d</sup>	112	3,207	2,236	1,645	1,597	586	702	199	0	110
Boise State U.	113	2,539	3,032	1,884	1,566	0	54	83	10	1,419
U. Denver	114	2,235	1,945	1,944	1,549	124	0	1,272	153	0
U. Hawaii, Manoa	115	1,186	1,684	1,606	1,545	89	0	0	0	1,456
Temple U.	116	1,637	1,476	1,614	1,486	0	196	207	8	1,075
U. Oregon	117	1,774	1,807	1,893	1,468	84	236	376	80	692
California State U., East Bay	118	ne	ne	171	1,414	0	0	1,414	0	0
U. North Carolina, Charlotte	119	1,706	1,984	2,252	1,401	31	73	685	482	130
Louisiana State U., Baton Rouge	120	1,303	1,157	1,272	1,363	0	323	17	218	805
San Francisco State U.	121	771	1,256	1,316	1,329	46	141	0	39	1,103
U. Kansas	122	4,497	4,167	4,390	1,319	127	158	223	614	197
West Virginia U.	123	552	663	1,272	1,301	0	43	510	133	615

TABLE 54

## Federally financed higher education R&amp;D expenditures in the social sciences, ranked by all FY 2021 social sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
U. Arkansas, Fayetteville	124	1,450	704	1,364	1,300	67	12	672	549	0
U. Southern Mississippi	125	1,833	4,522	2,799	1,200	0	0	0	0	1,200
Dartmouth C. and Dartmouth Hitchcock Medical Center	126	570	622	835	1,196	216	157	272	159	392
U. Alaska, Fairbanks	127	952	941	1,538	1,163	116	0	2	11	1,034
U. Rhode Island	128	1,195	1,154	1,518	1,129	0	490	0	0	639
SUNY, U. Buffalo	129	2,326	2,000	1,433	1,104	525	0	0	579	0
Colorado School of Mines	130	1,193	353	850	1,097	244	853	0	0	0
Northwest Indian C.	131	0	1,054	1,044	1,096	0	0	0	1,096	0
Worcester Polytechnic Institute	132	363	1,347	1,580	1,091	0	0	0	0	1,091
East Carolina U.	133	440	450	832	1,071	0	233	18	170	650
Hampton U.	134	1,804	1,604	710	1,041	0	0	0	0	1,041
U. Illinois, Springfield	135	1,108	954	959	1,040	0	0	0	0	1,040
U. Northern Iowa	136	786	1,205	867	1,036	0	15	0	4	1,017
Bowling Green State U.	137	1,010	986	868	991	0	142	0	528	321
California State U., Los Angeles	138	1,530	1,250	1,245	959	0	0	0	0	959
U. Central Florida	139	5,608	5,111	640	951	198	0	190	206	357
Kent State U.	140	1,039	896	949	930	26	0	0	226	678
U. Texas, El Paso	141	2,405	2,076	1,054	925	0	245	34	605	41
U.S. Military Academy	142	138	78	19	919	0	0	92	27	800
Utah State U.	142	979	955	1,241	919	0	421	0	498	0
U. Nebraska, Omaha	144	769	874	453	915	0	91	9	0	815
U. California, Riverside	145	446	836	917	914	0	42	12	279	581
Montana State U., Bozeman	146	295	310	289	910	0	0	89	156	665
Emory U.	147	852	418	916	905	0	145	286	474	0
Boston U.	148	950	1,333	1,052	869	105	382	0	116	266
San Diego State U.	149	743	912	997	848	183	0	0	38	627
Wayne State U.	150	199	405	474	845	0	118	104	153	470
SUNY, Binghamton U.	151	1,513	1,285	1,045	826	152	0	7	0	667
U. Texas, Dallas	152	885	563	577	824	0	42	240	354	188
American Samoa Community C.	153	ne	0	ne	815	0	0	0	0	815
Clark U.	154	1,207	973	655	801	0	619	0	0	182

TABLE 54

**Federally financed higher education R&D expenditures in the social sciences, ranked by all FY 2021 social sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
Naval War C.	155	4,384	679	724	794	0	0	794	0	0
Drexel U.	156	1,714	1,905	1,057	792	0	0	28	209	555
Fielding Graduate U.	157	ne	ne	ne	791	0	0	0	0	791
San Jose State U.	158	76	36	80	790	0	0	0	0	790
U. North Carolina, Wilmington	159	4	0	260	778	0	19	0	0	759
U. Baltimore	160	1,606	1,265	969	757	0	509	0	0	248
Brigham Young U., Provo	161	559	839	688	753	41	152	527	33	0
Northwestern State U. Louisiana	162	486	545	597	738	0	0	0	0	738
Miami U.	163	719	265	388	722	0	0	0	0	722
Rutgers, State U. New Jersey, Camden	164	188	57	79	669	0	0	0	118	551
U. Vermont	165	984	1,002	272	667	0	567	0	0	100
South Dakota State U.	166	465	585	879	665	0	257	0	350	58
U. California, Santa Cruz	166	1,363	1,069	667	665	0	72	105	172	316
Old Dominion U.	168	827	783	1,001	644	0	0	138	0	506
Texas A&M International U.	169	0	0	0	632	0	0	0	0	632
Washington U., Saint Louis	170	582	532	443	629	222	55	57	147	148
William Paterson U.	171	0	97	485	628	0	86	0	542	0
U. Alabama, Huntsville	172	2,682	1,851	1,449	597	0	597	0	0	0
CUNY, Graduate Center	173	1,601	2,033	1,334	589	132	88	329	40	0
U. Wyoming	173	2,816	405	295	589	316	273	0	0	0
U. Missouri, Columbia	175	483	345	450	576	112	41	0	143	280
California State U., San Marcos	176	441	898	757	565	0	0	0	0	565
Loyola U., Chicago	177	72	121	240	544	184	0	0	49	311
Virginia Commonwealth U.	178	367	127	305	520	0	28	492	0	0
California State U., Long Beach	179	346	394	363	515	75	25	0	106	309
Tennessee State U.	180	0	3	481	509	0	0	0	0	509
U. North Carolina, Greensboro	181	1,088	494	244	503	2	330	0	121	50
CUNY, Hunter C.	182	880	231	521	502	369	14	0	119	0
U. New Orleans	183	616	708	795	500	228	0	0	0	272
Michigan Technological U.	184	705	519	440	495	0	0	0	0	495
Rochester Institute of Technology	185	1,114	931	557	489	0	0	250	0	239

TABLE 54

## Federally financed higher education R&amp;D expenditures in the social sciences, ranked by all FY 2021 social sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
California Polytechnic State U., San Luis Obispo	186	94	146	481	483	0	424	0	3	56
SUNY, Stony Brook U.	187	906	868	804	462	177	33	31	140	81
U. Miami	187	173	235	451	462	0	0	0	169	293
New Mexico State U.	189	432	459	341	451	58	327	62	4	0
North Dakota State U.	190	4,043	4,226	4,244	450	0	244	0	176	30
U. Houston	191	999	569	478	412	0	30	208	60	114
Kennesaw State U.	192	2	11	11	409	0	0	0	94	315
Claremont Graduate U.	193	987	624	351	392	0	0	10	0	382
U. Northern Colorado	194	167	63	161	391	63	0	0	116	212
California State U., Northridge	195	102	352	464	383	0	0	0	0	383
Humboldt State U.	196	132	107	76	379	379	0	0	0	0
U. Louisville	196	829	1,128	783	379	8	0	87	47	237
Oklahoma State U., Stillwater	198	393	505	343	363	0	0	24	96	243
U. Texas of the Permian Basin	199	0	ne	320	360	0	0	0	0	360
Howard U.	200	567	257	251	340	0	31	0	309	0
Wellesley C.	201	55	588	761	327	0	194	0	0	133
U. Missouri, Saint Louis	202	847	863	492	323	0	106	0	0	217
U. Rochester	203	172	175	234	318	28	0	52	0	238
Sam Houston State U.	204	1,334	958	863	316	0	0	0	53	263
U. Alabama, Birmingham	205	47	720	201	303	0	0	0	156	147
U. New Haven	206	3,077	1,797	363	298	0	0	0	61	237
Ohio U.	207	308	140	169	292	0	0	0	0	292
U. Colorado Denver <sup>e</sup>	207	na	na	na	292	63	53	0	78	98
U. North Texas, Denton	209	447	388	202	291	0	0	0	78	213
CUNY, John Jay C. of Criminal Justice	210	1,392	14	0	289	0	0	0	289	0
Loyola Marymount U.	211	0	5	0	275	0	273	0	0	2
U. South Alabama	212	310	292	326	274	0	0	0	68	206
Cleveland State U.	213	240	164	353	265	0	0	0	116	149
Texas A&M U.-Corpus Christi	213	38	37	58	265	0	75	0	0	190
California State U., Dominguez Hills	215	37	0	137	250	0	0	0	250	0
Eastern Washington U.	215	166	129	562	250	0	0	0	0	250

TABLE 54

## Federally financed higher education R&amp;D expenditures in the social sciences, ranked by all FY 2021 social sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
U. of the Virgin Islands	217	0	1	228	248	0	220	10	0	18
Central Connecticut State U.	218	ne	80	206	225	0	0	0	0	225
U. Maine	219	379	394	121	222	0	13	0	59	150
Franklin and Marshall C.	220	0	94	279	216	0	0	0	0	216
Missouri State U.	221	379	290	263	198	0	0	0	38	160
CUNY, Baruch C.	222	285	365	333	197	0	0	61	97	39
Winston-Salem State U.	222	150	453	0	197	0	0	0	197	0
Ball State U.	224	177	430	303	196	140	0	0	42	14
Rensselaer Polytechnic Institute	224	182	186	101	196	0	15	0	0	181
Hawaii Pacific U.	226	378	341	193	193	0	0	0	193	0
U. Nevada, Las Vegas	227	910	238	249	189	0	0	51	0	138
Western Washington U.	228	385	241	173	188	27	0	0	25	136
U. Richmond	229	481	524	359	185	0	148	37	0	0
Fayetteville State U.	230	151	151	0	180	0	180	0	0	0
Northern Illinois U.	231	235	154	202	177	162	0	15	0	0
CUNY, Queens C.	232	246	306	85	172	64	0	0	94	14
Des Moines U.	232	25	71	159	172	i 172	i 0	i 0	i 0	i 0
U. Guam	234	174	255	154	171	0	0	0	171	0
Embry-Riddle Aeronautical U.	235	113	313	336	170	0	0	0	0	170
Louisiana Tech U.	236	293	403	420	169	0	0	169	0	0
CUNY, Lehman C.	237	814	686	163	168	16	0	0	152	0
Western Illinois U.	237	0	0	0	168	0	0	0	168	0
U. Maryland Center for Environmental Science	239	48	73	59	166	0	133	0	33	0
Middle Tennessee State U.	240	429	15	66	164	76	0	0	0	88
Morehead State U.	240	45	0	219	164	0	0	0	0	164
Winthrop U.	240	3	14	1	164	0	0	0	0	164
Pittsburg State U.	243	0	0	99	163	0	163	0	0	0
Middlebury C.	244	58	122	65	162	0	81	81	0	0
U. Louisiana, Monroe	244	235	182	143	162	0	0	0	0	162
Lehigh U.	246	0	0	0	160	0	160	0	0	0
Saint Louis U.	246	72	177	183	160	0	0	0	160	0

TABLE 54

**Federally financed higher education R&D expenditures in the social sciences, ranked by all FY 2021 social sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
California State U., Fresno	248	227	327	275	157	12	0	145	0	0
Occidental C.	249	38	8	5	156	0	0	0	18	138
Western Carolina U.	250	48	207	198	154	153	0	0	0	1
Arkansas State U., Jonesboro	251	167	34	52	153	0	153	0	0	0
Creighton U.	251	98	i 141	i 129	i 153	i 2	i 19	i 12	i 28	i 92
Alabama A&M U.	253	315	i 223	i 152	i 142	i 0	i 0	i 16	i 47	i 79
Gallaudet U.	253	0	0	56	142	0	0	0	142	0
U. California, Merced	255	614	462	405	129	0	0	2	7	120
Northern Arizona U.	256	187	540	212	126	1	64	0	55	6
Connecticut C.	257	59	249	169	124	0	0	0	0	124
Bates C.	258	0	259	73	119	27	50	30	12	0
Morgan State U.	259	118	0	40	115	0	0	0	0	115
Saint Joseph's U.	259	0	64	143	115	0	0	0	0	115
Southern Illinois U., Carbondale	259	104	183	94	115	0	0	0	115	0
U. Mississippi	259	137	86	179	115	0	0	14	81	20
Delaware State U.	263	168	168	99	i 114	0	78	0	36	0
Central Michigan U.	264	12	120	130	111	0	0	0	111	0
Chapman U.	265	27	179	136	109	0	3	0	87	19
U. Hawaii, Hilo	265	154	130	116	109	6	0	0	0	103
Rutgers, State U. New Jersey, Newark	267	1,073	394	574	108	0	0	94	0	14
Clafin U.	268	0	0	75	107	0	107	0	0	0
U. Minnesota, Duluth	268	5	0	7	107	0	0	0	0	107
Carleton C.	270	0	25	76	106	0	0	0	106	0
Florida Atlantic U.	271	67	111	126	105	0	0	0	0	105
Hamilton C.	271	63	22	26	105	0	0	105	0	0
Texas Tech U.	273	168	117	470	98	0	81	0	5	12
California State U., Chico	274	300	371	385	91	59	0	0	0	32
Fordham U.	274	90	83	62	91	0	12	0	79	0
Ithaca C.	276	ne	ne	165	85	42	0	0	34	9
Davidson C.	277	52	135	78	80	2	0	0	78	0
Mount Holyoke C.	277	235	151	53	80	0	0	0	80	0

TABLE 54

## Federally financed higher education R&amp;D expenditures in the social sciences, ranked by all FY 2021 social sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
Appalachian State U.	279	129	121	167	78	21	56	0	1	0
Southern Methodist U.	280	97	356	113	77	38	39	0	0	0
New Jersey Institute of Technology	281	0	0	283	76	0	76	0	0	0
Georgia Southern U.	282	59	21	9	73	73	0	0	0	0
U. Arkansas, Little Rock	282	27	64	4	73	0	0	0	0	73
U. Colorado Anschutz Medical Campus <sup>e</sup>	282	na	na	na	73	0	0	0	0	73
U. Wisconsin-La Crosse	282	13	74	83	73	0	47	0	0	26
Indiana U. Pennsylvania	286	62	183	64	72	72	0	0	0	0
U. Tulsa	287	16	75	145	71	71	0	0	0	0
Jackson State U.	288	85	106	34	67	0	0	67	0	0
California State U., Sacramento	289	1,007	132	113	63	7	51	4	0	1
Idaho State U.	289	143	197	218	63	25	0	38	0	0
Santa Clara U.	289	170	110	89	63	0	0	63	0	0
Grand Valley State U.	292	6	0	80	62	0	52	0	10	0
Montclair State U.	292	63	140	63	62	0	0	0	56	6
U. Puerto Rico, Rio Piedras	294	106	332	127	60	0	0	0	0	60
Norfolk State U.	295	0	0	0	58	0	0	0	58	0
Rhode Island School of Design	295	12 i	17 i	16 i	58 i	0 i	0 i	0 i	0 i	58 i
Rowan U.	295	70	54	222	58	0	0	0	0	58
Barnard C.	298	111	91	61	56	2	29	0	21	4
Southern Illinois U., Edwardsville	298	22	24	19	56	56	0	0	0	0
Williams C.	298	140	55	53 i	56 i	0 i	56 i	0 i	0 i	0 i
California State U., Fullerton	301	8	1	33	55	1	0	0	0	54
Western Kentucky U.	301	34	10	11	55	0	0	0	55	0
Spelman C.	303	208	43	129	53	0	53	0	0	0
Missouri U. of Science and Technology	304	95	63	32	49	0	44	0	5	0
Pomona C.	305	77	116	138	48	0	0	48	0	0
Mercer U.	306	0	0	20	46	0	46	0	0	0
Monmouth U.	307	ne	29	1	45	45	0	0	0	0
U. Houston-Clear Lake	307	23	45	30	45	0	0	0	0	45
U. Washington, Tacoma	309	0	36	75	44	0	0	0	0	44



TABLE 54

**Federally financed higher education R&D expenditures in the social sciences, ranked by all FY 2021 social sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
Swarthmore C.	310	0	75	56	43	0	43	0	0	0
New School	311	46	0	0	42	40	2	0	0	0
Stephen F. Austin State U.	312	103	27	131	41	0	0	0	0	41
Trinity C., Hartford	312	55	80	46	41	41	0	0	0	0
Northeastern Illinois U.	314	0	82	48	40	0	0	0	0	40
Dillard U.	315	675	348	0	38	0	0	0	0	38
North Carolina Agricultural and Technical State U.	316	0	0	45	37	0	0	0	37	0
Pennsylvania State U., Behrend	316	0	1	4	37	0	14	0	23	0
California State U., Stanislaus	318	11	0	3	35	0	0	0	0	35
Vassar C.	319	382	i 83	60	34	0	0	34	0	0
Youngstown State U.	320	50	36	32	33	0	0	0	0	33
Eastern Michigan U.	321	32	31	3	31	0	0	0	22	9
U. Puerto Rico, Mayaguez	322	40	40	163	30	0	6	0	24	0
Grinnell C.	323	0	28	30	28	0	0	0	28	0
Pepperdine U.	323	9	17	37	28	0	0	0	28	0
Texas Christian U.	323	47	232	121	28	0	0	0	28	0
U. Puerto Rico, Cayey	323	0	0	330	28	0	0	0	28	0
Baylor U.	327	24	83	60	27	0	0	0	27	0
Western Michigan U. and Homer Stryker M.D. School of Medicine	327	226	330	83	27	0	0	0	27	0
Colgate U.	329	98	47	10	25	0	0	0	25	0
Northland C.	329	ne	ne	ne	25	i 0	i 0	i 0	i 12	i 13
U. San Francisco	331	0	0	65	24	0	0	0	0	24
Wake Forest U.	331	41	38	12	24	0	21	0	3	0
Towson U.	333	90	149	162	23	23	0	0	0	0
Salisbury U.	334	0	0	3	22	0	22	0	0	0
U. North Dakota	334	18	151	66	22	0	0	0	13	9
Drake U.	336	35	13	ne	21	0	11	10	0	0
Elon U.	336	0	0	22	21	21	0	0	0	0
Lincoln U., Jefferson City	336	4	1	4	21	0	21	0	0	0
Niagara U.	336	125	114	18	21	0	0	0	0	21
U. Toledo	336	202	109	212	21	0	0	0	4	17

TABLE 54

## Federally financed higher education R&amp;D expenditures in the social sciences, ranked by all FY 2021 social sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
U. Wisconsin-Green Bay	341	15 i	21 i	23 i	20 i	1 i	3 i	2 i	5 i	9 i
James Madison U.	342	60	25	8	19	0	0	0	0	19
Sul Ross State U.	342	49	9	18	19 i	0 i	0 i	0 i	0 i	19 i
U. San Diego	342	196	312	61	19	0	0	0	0	19
California State U., San Bernardino	345	82	128	183	18	1	0	0	0	17
U. Texas, Tyler	345	0	34	4	18	0	0	0	18	0
U. Wisconsin-Platteville	345	ne	18 i	18 i	18 i	0 i	0 i	8 i	3 i	7 i
Northeast Ohio Medical U.	348	109	78	35	17	15	0	0	2	0
Northern Michigan U.	348	0	0	53	17	0	17	0	0	0
Prairie View A&M U.	348	34	0	0	17	0	12	0	5	0
U. Colorado Colorado Springs	348	0	3	46	17	0	0	0	0	17
Pennsylvania State U., Harrisburg	352	0	5	7	16	0	0	0	16	0
St. Olaf C.	352	16	0	10	16	0	1	0	4	11
U. Massachusetts, Dartmouth	352	0	115	1	16	0	0	0	0	16
East Tennessee State U.	355	890	249	14	14	0	0	0	14	0
Duquesne U.	356	0	0	0	13	0	0	0	13	0
Illinois Institute of Technology	356	251	131	88	13	0	0	0	0	13
Mercyhurst U.	356	ne	11 i	12 i	13 i	0 i	0 i	1 i	3 i	9 i
Saginaw Valley State U.	356	0	28	12	13 i	0 i	0 i	0 i	13 i	0 i
SUNY, C. of Environmental Science and Forestry	356	161	172	25	13	0	0	0	13	0
U. North Florida	356	248	228	128	13	0	0	0	13	0
U. South Dakota	356	7	2	13	13	13	0	0	0	0
California State U., Bakersfield	363	0	50	25	12	0	0	0	0	12
North Carolina Central U.	363	450	457	126	12	0	0	0	0	12
Tennessee Technological U.	363	0	0	0	12	0	0	0	12	0
Biola U.	366	9 i	9 i	9 i	11 i	0 i	0 i	1 i	2 i	8 i
SUNY, Geneseo	366	75	50	27	11	0	0	0	0	11
Wesleyan U.	366	0	0	24	11	0	0	11	0	0
Illinois State U.	369	201	362	187	10	0	0	0	0	10
Northern Kentucky U.	369	0	1	1	10	0	0	0	10	0
U. Hawaii, Maui C.	369	ne	ne	ne	10	0	0	0	10	0

TABLE 54

**Federally financed higher education R&D expenditures in the social sciences, ranked by all FY 2021 social sciences: FYs 2018–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
U. Missouri, Kansas City	372	58	82	25	9	0	0	0	0	9
Wichita State U.	372	5	26	17	9	9	0	0	0	0
Bucknell U.	374	34	2	8 i	8	0	0	0	0	8
U. Tennessee, Chattanooga	374	81	70	16	8	0	0	0	8	0
U. Texas, Arlington	376	44	75	43	7	0	0	7	0	0
U. Akron	377	46	56	19	6	6	0	0	0	0
Catholic U. of America	378	33	0	98	5	0	5	0	0	0
CUNY, New York City C. of Technology	378	0	0	0	5	0	0	0	0	5
Florida Gulf Coast U.	378	1	57	78	5	0	5	0	0	0
Indiana U., South Bend	378	29	ne	ne	5	5	0	0	0	0
C. Charleston	382	18	0	0	4	0	0	0	0	4
Pacific U.	382	82	82	84	4	0	4	0	0	0
U. Virginia's C. Wise	382	ne	ne	ne	4	0	4	0	0	0
U. West Florida	382	56	36	0	4	0	0	0	0	4
Texas A&M U.-Commerce	386	0	0	44	3	0	3	0	0	0
U. Hartford	386	0	0	0	3	0	0	0	3	0
U.S. Air Force Academy	386	147	2,464	292	3	0	3	0	0	0
Reed C.	389	29	26	2	2 i	0 i	0 i	0 i	2 i	0 i
SUNY, Buffalo State	389	146	146	123	2	0	0	0	0	2
SUNY, C. Brockport	389	5	33	35	2	0	0	0	2	0
Bowdoin C.	392	40	90	62	1	1	0	0	0	0
C. of Saint Benedict	392	0	0 i	0 i	1 i	1 i	0 i	0 i	0 i	0 i
CUNY, Brooklyn C.	392	33	0 i	0	1	1	0	0	0	0
All other surveyed institutions	-	48,418	4,288	2,942	0	0	0	0	0	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

nec = not elsewhere classified.

<sup>a</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

<sup>b</sup> The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began

reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

<sup>c</sup> Johns Hopkins University includes the Applied Physics Laboratory, with \$2,344 thousand in federally financed R&D expenditures in social sciences in FY 2021.

<sup>d</sup> The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

<sup>e</sup> The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

**Note(s):**

Institutions reporting zero expenditures in ranked total for FY 2021 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 55

**Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
All institutions	-	12,363,648	13,214,628	13,707,821	14,293,487	7,093,674	7,668,193	8,121,089	8,714,829
Johns Hopkins U. <sup>a</sup>	1	1,087,478 i	1,147,335 i	1,205,632 i	1,237,980 i	1,038,797	1,100,587	1,154,993	1,183,154
Georgia Institute of Technology	2	613,650	664,695	695,176	839,071	466,780	506,061	537,693	666,235
SUNY, Polytechnic Institute	3	255,033	350,793	353,542	462,562	39,897	36,816	26,696	24,019
Texas A&M U., College Station and Health Science Center	4	300,956	321,373	357,559	385,656	70,000	77,456	95,138	123,286
Massachusetts Institute of Technology	5	431,927	450,915	419,636	382,569	220,744	230,312	213,108	193,246
Pennsylvania State U., University Park and Hershey Medical Center	6	325,002	350,391	367,730	378,667	244,868	258,324	277,345	284,244
Purdue U., West Lafayette	7	229,967	270,525	280,592	285,469	105,657	111,292	122,469	137,052
U. Texas, Austin	8	242,963	249,788	259,935	279,730	154,761	160,506	175,426	194,110
U. Michigan, Ann Arbor	9	299,072	291,887	283,329	279,682	178,020	175,137	176,141	180,607
Utah State U.	10	140,407	202,345	226,616	247,332	124,950	183,794	206,998	228,986
Virginia Polytechnic Institute and State U.	11	245,755	258,213	263,711	246,965	98,261	104,138	107,677	108,080
U. Illinois, Urbana-Champaign	12	195,413	201,028	203,564	216,233	126,826	130,075	131,529	139,887
U. California, Berkeley	13	200,668	200,122	209,293	199,711	75,316	81,194	79,645	78,026
U. Dayton	14	139,036	157,016	153,082	180,158	127,079	146,841	145,508	171,865
U. Colorado Boulder	15	171,965	152,391	160,423	177,604	86,829	92,099	105,890	132,769
U. California, San Diego	16	150,596	172,919	182,495	177,564	73,246	88,846	97,602	100,212
North Carolina State U.	17	166,680	174,590	174,740	172,900	84,304	91,264	94,592	91,430
Ohio State U.	18	183,646	177,518	175,109	163,509	84,724	85,547	85,038	88,435
U. Washington, Seattle	19	149,931	155,076	152,919	157,622	103,714	108,560	114,031	119,758
Wichita State U.	20	63,328	109,248	134,848	157,430	13,677	22,954	46,023	64,692
U. Maryland <sup>b</sup>	21	na	158,814	153,109	154,163	na	86,168	86,398	95,898
Arizona State U.	22	142,175	152,395	155,015	145,574	61,096	72,655	80,121	73,746
Stanford U.	23	146,504	134,585	130,950	136,251	91,628	79,988	81,391	89,861
U. Wisconsin-Madison	24	118,576	126,587	133,600	131,709	63,684	68,617	73,412	75,104
U. Tennessee, Knoxville <sup>c</sup>	25	128,675	116,528	128,542	128,579	62,428	67,165	66,562	66,556
Iowa State U.	26	99,214	104,798	109,473	123,428	43,677	43,241	62,369	62,113
U. Florida	27	93,580	107,598	119,066	122,704	49,486	60,844	62,573	72,191
U. Minnesota, Twin Cities	28	124,637	120,976	120,929	121,637	67,776	71,695	74,167	78,808
Cornell U.	29	92,590	110,545	123,703	118,621	55,763	63,696	69,870	72,771
Carnegie Mellon U.	30	99,201	95,496	102,955	112,597	53,672	49,854	56,175	63,083
U. California, Davis	31	89,128	92,277	97,951	102,370	35,375	37,549	37,203	43,175
Woods Hole Oceanographic Institution	32	61,221	83,974	84,333	101,989	52,285	72,016	75,442	93,266
Rice U.	33	67,934	77,299	91,913	100,872	34,520	37,781	42,085	46,799

TABLE 55

**Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
SUNY, U. Buffalo	34	95,234	95,040	112,843	100,194	53,279	50,811	61,140	66,790
New York U.	35	85,767	99,711	100,207	99,307	13,790	14,986	15,445	18,633
Duke U.	36	92,715	100,379	95,657	94,483	64,601	72,560	73,605	74,308
U. California, Los Angeles	37	91,799	95,797	93,520	93,906	50,048	52,488	49,163	53,761
Harvard U.	38	96,786	95,651	97,884	92,782	51,742	45,835	52,801	50,918
Northeastern U.	39	65,147	79,836	89,954	92,723	48,634	61,116	66,614	69,550
U. Notre Dame	40	77,243	89,702	84,478	90,572	36,062	40,258	41,771	42,501
U. Delaware	41	52,932	66,447	74,258	90,327	37,656	47,975	53,448	68,504
Clemson U.	42	73,506	76,739	76,971	90,038	33,781	39,395	38,214	46,693
U. Pennsylvania	43	67,574	78,444	82,299	88,937	36,750	39,422	44,542	49,526
U. North Dakota	44	52,960	54,760	52,511	86,578	30,506	28,684	20,330	35,155
Vanderbilt U. and Vanderbilt U. Medical Center	45	87,250	94,340	94,674	86,541	47,036	52,742	52,373	43,570
U. California, Santa Barbara	46	77,535	67,395	87,681	86,303	35,964	33,589	43,340	44,958
New Jersey Institute of Technology	47	69,735	78,455	85,445	82,240	41,611	53,994	53,702	50,822
Northwestern U.	48	81,662	80,413	77,150	80,735	48,724	47,948	49,383	55,739
Boston U.	49	83,013	78,154	85,651	79,757	42,903	45,017	53,265	48,537
Michigan State U.	50	77,165	79,638	82,690	79,360	27,900	29,787	31,431	31,314
Auburn U., Auburn	51	56,233	59,742	70,593	78,720	21,497	25,694	28,796	40,288
U. Southern California	52	72,961	76,180	78,005	78,179	46,803	52,737	55,089	51,948
Columbia U. in the City of New York	53	72,301	72,596	72,758	75,457	61,834	59,672	62,020	64,962
U. Arizona	54	70,100	75,555	79,463	72,158	30,716	35,880	34,459	34,360
Rensselaer Polytechnic Institute	55	57,190	59,831	70,156	67,810	28,136	28,307	28,960	31,832
Mississippi State U.	56	48,399	60,183	69,220	67,472	24,187	33,935	45,520	44,188
Princeton U.	57	67,450	65,000	67,014	67,231	42,147	41,480	40,829	44,201
U. California, Irvine	58	70,449	55,995	59,695	65,454	26,914	24,021	27,421	29,315
U. Virginia, Charlottesville	59	70,000	83,072	72,602	62,271	38,600	43,878	41,454	37,143
U. Massachusetts, Amherst	60	54,219	49,745	58,804	60,065	27,568	26,896	28,635	32,063
U. Texas, Arlington	61	48,513	54,450	59,395	58,154	20,698	22,053	22,163	23,581
U. Central Florida	62	62,734	62,258	59,627	57,620	33,002	33,413	34,825	36,318
U. Missouri, Columbia	63	44,864	48,028	53,343	56,685	12,483	14,331	16,905	15,905
U. Pittsburgh, Pittsburgh	64	44,995	46,075	53,586	56,681	27,599	31,347	36,623	37,749
U. Houston	65	50,047	51,806	55,210	56,555	21,593	23,838	24,929	26,599
U. Alabama, Huntsville	66	34,105	40,733	51,198	55,510	24,961	31,957	42,499	44,780
U. Connecticut	67	39,907	44,044	46,751	54,185	22,920	26,390	30,450	37,988

TABLE 55

**Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Colorado School of Mines	68	35,504	44,195	46,694	54,062	23,277	31,066	33,432	37,909
Oregon State U.	69	49,271	49,587	50,900	52,731	34,437	36,090	35,946	38,914
U. Kentucky	70	47,821	50,743	46,976	52,361	25,067	28,999	26,818	33,001
Florida State U.	71	56,281	56,352	56,493	52,153	39,060	39,126	38,126	34,492
Montana State U., Bozeman	72	25,643	36,521	38,833	51,785	18,950	25,349	28,753	39,190
California Institute of Technology	73	45,494	46,972	51,693	51,630	22,700	24,690	26,324	24,011
Rutgers, State U. New Jersey, New Brunswick	74	104,371	92,937	55,880	51,289	35,299	35,917	40,629	35,691
U. Nebraska, Lincoln	75	49,434	53,932	51,685	51,287	18,358	20,375	21,149	21,450
U. Texas, Dallas	76	43,363	48,666	50,812	50,646	15,884	19,512	21,594	24,793
U. South Florida <sup>d</sup>	77	45,487	45,508	37,162	50,547	24,747	22,743	18,073	26,183
George Mason U.	78	15,785	36,101	52,423	49,826	13,550	31,276	45,977	44,086
U. California, Santa Cruz	79	29,724	39,111	41,752	49,576	18,845	25,568	22,817	33,002
U. Utah	80	42,053	55,478	57,608	48,225	25,847	32,365	34,915	29,330
Washington State U.	81	43,674	39,578	39,533	48,031	19,156	18,943	20,360	23,129
U. Iowa	82	50,848	50,377	48,433	47,722	22,494	21,473	20,687	23,116
U. Maine	83	27,459	32,368	37,127	46,986	10,014	13,614	18,038	27,452
U. Alabama, Birmingham	84	48,102	47,555	53,030	46,844	38,086	37,724	44,243	43,477
Michigan Technological U.	85	45,745	47,435	45,263	46,733	19,638	21,801	23,332	26,289
U. Alabama, Tuscaloosa	86	24,667	31,845	33,019	43,941	10,874	16,390	19,679	25,859
Missouri U. of Science and Technology	87	33,241	37,912	36,447	43,470	16,249	17,811	16,411	21,797
U. Cincinnati	88	44,588	46,889	43,098	42,434	10,598	12,015	11,447	12,970
Texas Tech U.	89	40,249	44,057	42,856	41,962	10,888	14,017	14,399	15,359
Florida International U.	90	31,410	35,138	39,826	41,740	17,220	19,899	21,747	23,801
Colorado State U., Fort Collins	91	38,919	42,609	42,839	41,575	29,104	31,135	30,860	30,424
U. New Mexico	92	35,067	37,950	42,739	41,317	27,521	30,449	34,153	33,001
Mercer U.	93	23,532	32,624	37,450	40,439	17,021	25,358	29,625	31,923
West Virginia U.	94	37,520	42,516	40,786	39,855	18,904	19,835	15,930	18,042
U. Oklahoma, Norman and Health Science Center	95	23,293	26,569	36,643	39,785	12,084	13,783	15,069	15,235
SUNY, Binghamton U.	96	35,406	30,434	32,668	39,529	6,470	6,356	6,526	7,463
Louisiana State U., Baton Rouge	97	44,604	45,803	40,084	39,104	11,227	11,587	10,268	11,014
Case Western Reserve U.	98	46,184	41,228	37,911	39,079	33,187	29,335	27,954	30,483
U. Arkansas, Fayetteville	99	36,132	34,590	37,758	37,818	15,886	14,659	18,074	17,980
U. Massachusetts, Lowell	100	27,676	33,128	35,847	36,339	11,828	13,443	14,870	18,884
U. South Carolina, Columbia	101	31,294	31,748	42,804	36,223	15,596	16,076	15,010	17,042

TABLE 55

**Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Yale U.	102	35,939	36,591	36,806	35,778	23,606	24,674	24,172	23,578
U. Illinois, Chicago	103	25,079	28,226	31,496	35,675	13,558	14,707	17,537	21,610
Oklahoma State U., Stillwater	104	37,003	32,947	33,983	35,094	11,982	11,962	11,969	15,319
U. California, Riverside	105	29,206	29,020	31,937	34,888	16,293	16,217	17,034	18,541
CUNY, City C.	106	28,252	28,337	23,140	34,710	17,753	16,998	15,704	18,078
Stevens Institute of Technology	107	22,396	25,832	33,103	33,983	16,994	18,945	23,906	26,766
Dartmouth C. and Dartmouth Hitchcock Medical Center	108	31,903	31,110	31,140	33,559	21,403	21,279	21,064	24,126
Drexel U.	109	31,625	31,330	31,230	32,665	21,222	20,443	19,772	20,821
Virginia Commonwealth U.	110	20,262	26,072	29,811	32,233	7,362	9,482	11,779	9,924
U. North Carolina, Chapel Hill	111	28,509	31,825	30,774	30,935	19,456	19,251	17,813	19,983
U. Louisiana, Lafayette	112	13,188	28,397	27,878	30,295	783	4,247	3,557	6,909
U. Chicago	113	16,388	23,773	24,468	30,018	12,919	17,275	20,168	25,909
New Mexico State U.	114	23,067	25,892	25,030	29,884	14,388	17,202	15,583	19,957
U.S. Air Force Academy	115	28,645	28,489	29,812	29,132	26,453	28,489	29,812	28,914
SUNY, Stony Brook U.	116	28,015	28,632	30,180	28,344	15,013	15,637	15,329	17,613
U. Nevada, Reno	117	19,373	23,568	23,939	27,769	7,474	8,785	9,664	11,419
Kansas State U.	118	26,577	27,439	28,155	27,743	9,819	12,503	12,530	13,810
Worcester Polytechnic Institute	119	20,617	21,029	23,758	27,108	10,668	11,735	13,084	16,095
Air Force Institute of Technology	120	22,908	20,525	23,947	26,780	16,075	14,015	15,238	17,065
U. Texas, El Paso	121	27,260	26,586	25,172	26,599	15,228	11,995	11,812	15,602
Washington U., Saint Louis	122	24,238	23,090	23,821	26,574	20,596	18,895	19,552	22,291
Lehigh U.	123	24,564	23,447	24,054	25,835	16,053	15,374	16,205	16,976
Old Dominion U.	124	17,074	19,294	25,869	25,811	7,601	8,179	11,802	9,683
Syracuse U.	125	22,145	25,412	24,272	24,698	9,100	7,616	7,696	8,013
U. Wyoming	126	36,672	19,550	20,317	24,675	4,369	6,075	4,640	7,391
Naval Postgraduate School	127	19,675	22,498	22,933	24,254	17,019	20,124	20,145	20,798
Tufts U.	128	27,130	31,630	26,662	24,017	22,470	26,143	20,397	19,362
U. Hawaii, Manoa	129	21,367	17,089	25,423	23,966	15,744	10,777	17,536	16,553
Brown U.	130	28,149	23,448	23,965	23,587	20,893	17,289	17,138	15,963
George Washington U.	131	17,136	21,712	22,682	22,749	10,987	14,597	15,091	15,052
U. New Hampshire	132	19,239	23,861	23,457	22,509	9,291	12,286	11,466	8,984
U. Texas, San Antonio	133	17,781	19,928	22,922	21,499	5,947	5,949	5,961	7,346
U. Kansas	134	17,481	20,869	19,830	21,363	10,149	14,177	13,829	12,206
U. Louisville	135	17,321	16,302	18,105	20,965	6,949	8,248	9,077	11,844



TABLE 55

**Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Rochester Institute of Technology	136	18,611	20,264	20,910	20,874	8,298	8,136	7,965	10,659
U. Georgia	137	21,346	18,444	19,273	20,289	4,964	6,292	7,208	8,139
Brigham Young U., Provo	138	14,827	14,001	15,943	20,162	8,727	9,188	11,438	15,694
U. North Texas, Denton	139	13,114	15,773	15,205	18,285	7,918	5,962	3,805	7,232
U. Alaska, Fairbanks	140	14,027	14,922	17,843	17,314	7,642	9,090	11,998	11,355
Florida Atlantic U.	141	12,099	11,450	10,574	17,064	6,467	7,007	6,955	11,045
U. Rochester	142	13,418	14,872	16,116	16,780	9,658	11,814	12,764	14,213
Ohio U.	143	21,226	19,502	16,291	16,645	5,512	5,252	4,454	5,340
U. North Carolina, Charlotte	144	11,933	16,000	19,781	15,643	6,776	7,845	8,853	9,381
Boise State U.	145	11,907	11,688	13,956	14,918	6,297	6,377	8,245	9,596
North Dakota State U.	146	11,555	12,030	14,007	13,963	2,750	3,254	3,085	4,341
U. California, Merced	147	12,912	13,852	15,191	13,854	4,957	4,652	5,760	4,627
Illinois Institute of Technology	148	12,976	15,241	11,934	13,737	10,861	12,061	9,230	11,070
South Dakota School of Mines and Technology	149	13,111	11,226	12,677	13,658	8,581	7,570	8,887	9,834
Oregon Health and Science U.	150	11,941	12,134	12,856	13,526	8,694	10,649	9,549	10,841
Indiana U., Bloomington	151	7,928	11,265	14,373	13,012	3,649	4,864	6,314	5,752
New Mexico Institute of Mining and Technology	152	13,245	14,043	13,084	13,002	12,044	13,004	11,869	10,164
U. Idaho	153	17,190	17,497	17,035	12,944	7,521	8,525	8,376	6,705
Cleveland State U.	154	15,184	17,278	16,225	12,371	8,971	11,036	11,055	7,748
U. Vermont	155	7,712	7,864	11,209	11,914	5,683	5,190	4,853	5,537
Wayne State U.	156	17,235	14,634	12,806	11,675	6,264	6,640	5,947	5,695
North Carolina Agricultural and Technical State U.	157	13,123	11,766	10,393	11,616	10,933	9,713	8,664	9,071
Rowan U.	158	5,541	8,447	11,784	11,570	3,386	4,229	7,616	8,035
Emory U.	159	6,000	9,614	11,349	11,488	2,925	6,256	8,676	8,356
U. Puerto Rico, Mayaguez	160	13,704	16,446	16,903	11,397	7,275	8,892	9,428	8,136
Embry-Riddle Aeronautical U.	161	12,926	8,374	12,015	11,279	10,728	6,291	7,943	9,272
Louisiana Tech U.	162	10,333	11,513	11,459	11,257	3,948	4,263	4,582	4,117
U. Tulsa	163	14,054	13,213	13,182	10,926	1,647	1,520	1,387	2,410
U. Rhode Island	164	7,910	10,632	10,182	10,766	5,282	7,329	6,939	7,962
San Diego State U.	165	8,534	8,197	7,934	10,715	4,026	3,801	3,851	4,553
U. Nevada, Las Vegas	166	16,192	15,736	12,729	10,667	7,839	6,161	4,946	4,037
U. Toledo	167	10,410	11,256	10,023	10,299	5,781	6,062	5,921	7,574
Clarkson U.	168	12,058	10,889	9,363	10,113	5,553	5,883	4,584	4,577
Southern Methodist U.	169	6,835	9,207	9,798	9,972	3,220	5,145	5,103	3,590

TABLE 55

**Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Howard U.	170	9,112	8,401	8,336	9,535	7,260	6,046	6,241	7,420
Villanova U.	171	9,293	9,612	10,193	9,484	1,535	1,543	1,375	2,122
U. Memphis	172	9,806	9,464	10,741	9,464	3,063	2,489	2,513	2,275
Texas State U.	173	3,504	4,611	6,892	9,321	1,066	623	746	1,537
U. Missouri, Kansas City	174	4,385	7,089	8,351	9,174	2,105	5,349	6,902	7,506
Marquette U.	175	7,898	8,988	10,059	9,027	2,424	3,033	4,291	3,866
U. Wisconsin-Milwaukee	176	10,024	9,915	9,683	8,577	2,373	2,537	2,940	3,193
Tennessee Technological U.	177	7,301	7,267	7,559	8,455	2,539	2,402	2,756	3,392
Temple U.	178	7,719	8,042	9,294	8,279	4,142	3,830	4,758	4,734
Wright State U.	179	43,039	39,164	29,519	8,129	28,136	25,868	23,496	6,695
U. Nebraska, central administration	180	2,800	1,687	8,340	8,060	2,800	1,687	8,340	7,510
Western Michigan U. and Homer Stryker M.D. School of Medicine	181	5,810	5,595	5,091	8,058	2,590	1,945	1,580	4,194
U. Massachusetts, Dartmouth	182	7,404	7,764	7,944	8,049	2,751	2,696	2,170	2,434
Morgan State U.	183	3,002	3,990	7,228	8,031	2,366	3,376	4,847	5,001
U.S. Military Academy	184	3,020	3,799	5,297	7,772	3,020	3,799	5,252	7,334
U. Akron	185	18,878	16,650	11,345	7,714	8,155	6,447	5,096	3,985
Medical C. Wisconsin	186	6,669	7,800	8,542	7,560	4,864	6,029	6,389	5,221
Baylor U.	187	4,494	3,720	4,515	7,241	1,189	1,440	1,271	1,598
South Dakota State U.	188	5,391	5,516	5,490	7,161	3,283	2,925	2,674	3,854
Missouri State U.	189	2,200	3,234	10,257	7,024	2,200	3,176	10,096	6,872
U.S. Naval Academy	190	7,823	7,482	7,376	6,719	7,667	7,311	7,202	6,604
Portland State U.	191	9,010	9,160	6,719	6,668	4,531	4,887	4,113	4,021
U. Maryland, Baltimore County	191	8,715	8,429	6,671	6,668	6,204	4,862	4,651	4,657
Tulane U.	193	7,435	8,416	6,881	6,662	3,965	4,170	4,050	4,016
Indiana U.-Purdue U., Indianapolis	194	6,034	6,730	7,177	6,604	3,054	3,298	4,354	4,040
Texas A&M U.-Corpus Christi	195	7,089	7,193	7,064	6,590	2,121	2,020	2,800	2,340
Northern Arizona U.	196	4,454	2,613	4,996	6,497	1,043	1,106	3,649	4,910
U. Michigan, Dearborn	197	6,503	6,832	7,088	6,223	844	1,129	1,681	1,907
U. Mississippi	198	5,462	8,821	13,661	6,033	3,137	4,752	12,422	4,487
California State U., Sacramento	199	7,196	7,507	7,744	5,986	3,282	3,443	3,150	2,687
U. Southern Mississippi	200	1,214	3,371	5,999	5,963	1,214	3,286	1,823	1,970
Florida Institute of Technology	201	5,427	4,782	5,362	5,891	2,306	2,391	3,305	2,903
Montana Technological U.	202	4,464	4,428	4,331	5,834	3,239	3,606	3,161	4,639
Humboldt State U.	203	4,118	5,232	4,261	5,564	4	16	153	208

TABLE 55

**Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Tuskegee U.	204	5,297	5,372	5,922	5,528	5,197	4,097	4,177	4,213
California Polytechnic State U., San Luis Obispo	205	3,542	4,117	4,646	5,522	2,136	1,566	1,338	2,636
U. Texas Rio Grande Valley	206	4,226	3,573	4,018	5,354	2,798	1,134	1,761	2,885
Florida A&M U.	207	2,844	4,477	4,796	5,222	2,298	4,057	4,492	4,852
U. South Alabama	208	1,956	2,411	3,640	5,085	1,098	1,467	2,624	3,209
Prairie View A&M U.	209	3,835	5,121	5,222	4,687	2,641	3,183	3,184	2,885
Texas A&M U.-Kingsville	210	1,906	1,827	2,653	4,622	964	1,187	1,830	2,923
California State U., Long Beach	211	5,150	4,223	4,733	4,574	3,008	2,109	2,533	2,942
U. Miami	212	5,201	5,400	5,060	4,527	2,658	2,532	2,128	2,816
Oakland U.	213	3,709	3,836	1,041	4,437	1,076	720	233	953
Idaho State U.	214	4,725	4,039	5,014	4,411	1,815	1,203	2,491	2,022
Miami U.	215	2,271	3,070	3,783	4,356	281	361	667	532
Northern Illinois U.	216	1,072	1,418	1,467	4,134	334	222	246	1,856
Brandeis U.	217	0	0	1,048	4,055	0	0	0	409
Georgia Southern U.	218	1,110	1,257	1,929	4,052	196	174	301	804
Catholic U. of America	219	1,973	2,587	3,518	3,926	1,610	1,961	2,925	2,680
New School	220	1,797	2,828	3,205	3,793	0	99	116	422
Kent State U.	221	1,857	2,330	2,743	3,732	1,183	1,860	1,278	830
U. Colorado Denver <sup>e</sup>	222	na	na	na	3,695	na	na	na	3,152
San Jose State U.	223	1,451	1,864	2,863	3,664	699	1,029	1,575	700
U. Tennessee, Chattanooga	224	1,674	2,460	3,319	3,578	589	1,216	2,277	2,574
U. Denver	225	3,992	4,010	4,461	3,558	1,558	1,879	2,109	1,037
U. of St. Thomas (MN)	226	617	407	976	3,212	29	25	19	565
U. of the District of Columbia	227	721	708	1,388	3,134	721	708	1,388	3,134
SUNY, U. Albany	228	1,941	3,087	3,319	3,133	74	512	1,039	1,393
Milwaukee School of Engineering	229	2,936	3,825	3,105	3,129	631	695	613	704
Southern Illinois U., Carbondale	230	3,381	2,905	2,333	3,120	386	392	180	606
East Carolina U.	231	1,276	2,015	3,053	3,069	267	475	366	1,376
Tennessee State U.	232	1,467	1,207	2,922	3,062	1,203	824	2,584	2,732
CUNY, Advanced Science Research Center	233	1,564	1,379	2,289	2,928	1,274	1,289	1,968	1,845
Alfred U.	234	3,599	5,032	2,720	2,654	1,374	1,459	887	933
California State U., Maritime Academy	235	2,924	2,959	3,202	2,603	550	617	621	450
Marshall U.	236	1,011	1,158	1,137	2,475	271	502	434	1,671
Lamar U.	237	2,280	1,609	1,825	2,437	1,012	442	838	635

TABLE 55

**Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Pennsylvania State U., Behrend	238	1,112	1,508	1,232	2,395	277	408	337	610
U. Minnesota, Duluth	239	2,570	2,399	2,186	2,392	199	319	180	341
San Francisco State U.	240	1,492	1,284	2,251	2,386	486	371	981	990
Southern U. and A&M C., Baton Rouge	241	1,523	1,905	1,424	2,282	1,342	1,454	1,360	2,185
Pittsburg State U.	242	1,978	1,990	1,659	2,250	19	12	50	314
Jackson State U.	243	3,385	3,354	1,468	2,236	2,806	2,908	1,262	1,817
Purdue U., Northwest	244	2,307	1,352	2,521	2,220	675	376	1,128	1,032
U. North Florida	245	2,832	2,392	2,433	2,119	439	360	304	316
U. North Carolina, general administration	246	2,311	2,239	2,467	2,068	49	189	552	306
Saint Louis U.	247	1,346	2,344	2,621	1,999	486	1,176	1,549	1,183
U. New Orleans	248	2,447	2,376	2,282	1,897	392	344	250	204
Kennesaw State U.	249	549	617	1,478	1,858	111	105	74	289
Youngstown State U.	250	4,044	3,993	3,491	1,794	3,333	2,667	2,818	1,261
Southern Illinois U., Edwardsville	251	2,666	2,348	1,424	1,786	611	475	240	208
North Carolina Central U.	252	0	1,212	2,675	1,773	0	789	1,929	959
Alabama A&M U.	253	3,122	2,354	1,603	1,714	2,236	1,581	1,078	1,204
California State U., San Marcos	254	344	797	2,408	1,682	344	797	2,408	1,680
U. Alaska, Anchorage	255	2,196	1,393	1,101	1,674	226	562	644	869
Santa Clara U.	256	535	876	948	1,588	177	215	393	814
California State Polytechnic U., Pomona	257	1,248	1,085	1,875	1,516	751	728	1,141	1,040
Bucknell U.	258	1,733	1,632	1,690	1,494	561	533	554	543
California State U., Los Angeles	259	762	879	922	1,486	642	688	806	1,067
U. South Dakota	260	3,198	3,243	1,385	1,429	663	1,280	440	731
Norfolk State U.	261	1,501	1,940	1,312	1,413	1,501	1,940	1,312	1,081
West Texas A&M U.	262	1,058	1,178	1,277	1,400	534	477	500	673
California State U., San Bernardino	263	1,133	2,434	1,598	1,382	0	0	0	0
U. South Carolina, Aiken	264	1,490	1,520	1,331	1,322	1,490	1,453	1,331	1,322
California State U., Fresno	265	1,520	1,492	1,748	1,290	758	419	526	474
U. Oklahoma, Tulsa	266	1,432	1,549	1,816	1,289	667	919	1,066	421
Virginia State U.	267	951	793	1,058	1,273	240	165	210	321
U. Massachusetts, Boston	268	1,220	1,255	1,206	1,266	609	533	547	498
U. Texas Medical Branch	269	2,528	1,596	1,192	1,259	1,093	411	276	425
California State U., Chico	270	305	567	1,120	1,236	35	179	613	768
California State U., Northridge	271	757	714	1,115	1,216	700	604	926	1,069

TABLE 55

**Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
U. Colorado Anschutz Medical Campus <sup>e</sup>	272	na	na	na	1,204	na	na	na	1,189
Wake Forest U.	272	49	385	859	1,204	49	148	208	544
U. Puerto Rico, Rio Piedras	274	326	37	341	1,152	117	37	270	1,152
CUNY, system office	275	2,245	1,001	1,132	1,137	1,419	912	662	731
Manhattan C.	276	ne	809	716	1,122	ne	167	170	68
SUNY, C. of Environmental Science and Forestry	277	1,245	1,339	912	1,085	249	259	158	396
U. North Carolina, Wilmington	278	1,659	1,226	640	1,064	531	484	335	297
U. Nebraska, Omaha	279	515	993	1,195	1,051	398	683	859	545
U. Ana G. Mendez, Gurabo	280	501	2,324	884	1,034	0	575	365	667
California State U., East Bay	281	ne	ne	132	1,024	ne	ne	41	0
Minnesota State U., Mankato	282	1,204	1,472	1,486	996	80	174	244	170
U. San Diego	283	898	776	1,252	980	756	633	686	692
U. Hartford	284	440	1,300	1,002	963	42	791	605	585
Franklin W. Olin C. of Engineering	285	789	534	491	936	425	111	255	636
U. Colorado Colorado Springs	286	763	694	1,367	902	656	649	877	488
California State U., Bakersfield	287	1,271	2,050	1,449	839	928	1,453	1,179	751
U. of the Virgin Islands	288	87	61	902	832	87	61	834	809
Florida Polytechnic U.	289	ne	1,739	689	829	ne	283	159	312
Hampton U.	290	1,296	1,049	866	827	1,296	1,049	866	827
U. Arkansas, Little Rock	291	1,921	2,116	1,627	809	1,060	1,224	950	708
U. Texas of the Permian Basin	292	50	ne	217	792	50	ne	82	270
Western Illinois U.	293	711	409	79	780	530	321	71	780
New York Institute of Technology	294	698	1,045	458	775	422	697	372	666
Oregon Institute of Technology	295	2,760 i	798 i	679 i	761 i	158	272 i	203	71 i
Morehead State U.	296	1,592	806	1,271	756	1,306	754	1,208	756
Union C., Schenectady	297	119	118	204	722	32	10	81	595
South Carolina State U.	298	239 i	662	687 i	712	208 i	662	687 i	712 i
U. West Florida	299	33	21	277	709	0	0	196	265
Pace U.	300	735	435	516	706	395	404	464	626
Smith C.	301	563	553	952	688	477	463	725	571
U. Tennessee, Health Science Center	302	598	610	648	687	0	0	0	0
California State U., Fullerton	303	563	609	616	661	352	288	534	530
Christopher Newport U.	304	536	575	566	656	536	575	566	656
Fort Lewis C.	305	ne	760	505	605	ne	702	477	563

TABLE 55

**Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Western Kentucky U.	306	783	597	689	604	93	2	68	82
Middle Tennessee State U.	307	540	59	182	592	100	3	76	100
Savannah State U.	308	429	526	639	588	429	526	639	588
Western Washington U.	309	1,489	832	989	587	535	336	475	230
Lawrence Technological U.	310	996	882	806	555	386	210	227	141
U. Texas, Tyler	311	405	394	344	537	127	71	47	115
Hofstra U.	312	717	521	299	528	717	506	288	478
Harvey Mudd C.	313	596	884	628	515	340	440	175	256
Purdue U., Fort Wayne	314	533	221	443	465	93	160	194	125
Eastern Michigan U.	315	156	304	402	427	0	9	102	81
Central Michigan U.	316	657	559	736	412	276	162	84	95
Johnson C. Smith U.	317	0	0	364	386	0	0	364	386
Pennsylvania State U., Harrisburg	317	223	312	74	386	132	15	44	219
Arkansas State U., Jonesboro	319	490	553	371	384	142	180	144	248
Alabama State U.	320	0	0	533	366	0	0	533	73
Keck Graduate Institute	321	293	326	336	356	190	208	215	238
Chapman U.	322	0	0	102	348	0	0	43	8
Wellesley C.	323	0	0	633	345	0	0	633	345
U. Wisconsin-Green Bay	324	242	353	338	327	95	147	159	167
U. New Haven	325	906	1,013	533	319	557	485	238	81
U. Washington, Tacoma	325	0	0	59	319	0	0	59	314
Delaware State U.	327	1,807	2,248	316	308	1,500	1,218	172	198
Western Carolina U.	328	136	365	371	305	122	269	291	237
U. Washington, Bothell	329	86	161	0	304	0	146	0	304
Kettering U.	330	1,516	1,354	1,046	295	454	184	114	3
Fayetteville State U.	331	0	0	0	288	0	0	0	288
C. New Jersey	332	155	ne	105	283	114	ne	8	133
Saginaw Valley State U.	333	242	239	277	280	136	124	105	110
Hope C.	334	55	128	175	277	52	116	138	232
CUNY, C. Staten Island	335	1	1	294	274	0	0	249	235
Citadel Military C. South Carolina	336	ne	ne	34	250	ne	ne	13	136
Texas A&M International U.	337	91	30	71	241	0	3	28	65
U. Wisconsin-Stevens Point	337	46	52	60	241	34	40	47	132
Loyola Marymount U.	339	553	160	165	234	4	0	0	0

TABLE 55

**Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
U. of the Pacific	340	165	68	89	228	163	68	89	228
U. Michigan, Flint	341	140	152	376	225	8	0	0	0
Central State U.	342	100	340	166	211	100	340	166	211
Liberty U.	343	ne	311	838	208	ne	0	442	75
U. Wisconsin-Superior	344	0	4	9	207	0	4	9	32
Lipscomb U.	345	ne	ne	188	203	ne	ne	188	203
Lafayette C.	346	183	184	251	201	112	107	139	84
U. Houston-Downtown	347	7	42	36	189	0	0	28	189
U. of the Incarnate Word	348	0	47	72	186	0	0	0	139
Alcorn State U.	349	496	343	133	181	496	330	126	178
James Madison U.	350	105	313	305	174	56	181	186	54
Swarthmore C.	350	377	314	367	174	141	55	0	50
U. Wisconsin-Platteville	352	ne	145	145	171	ne	68	67	80
Biola U.	353	153	162	167	167	103	109	113	117
Tarleton State U.	354	0	61	156	166	0	0	0	0
U. Southern Maine	355	3	23	27	159	0	0	0	32
U. Wisconsin-Oshkosh	356	141	146	152	158	75	74	74	73
Florida Gulf Coast U.	357	270	59	250	145	270	56	47	0
U. Maryland, Eastern Shore	358	43	40	128	144	0	0	125	125
East Tennessee State U.	359	0	2	65	138	0	2	52	101
Grand Valley State U.	360	40	400	236	118	0	0	0	0
Keene State C.	361	ne	8	8	114	ne	8	8	114
U. Detroit Mercy	361	103	227	119	114	4	59	75	64
Fairfield U.	363	375	60	117	109	22	0	0	2
Montclair State U.	364	0	0	14	104	0	0	0	5
CUNY, New York City C. of Technology	365	601	478	367	103	579	442	353	93
Duquesne U.	366	588	525	374	102	208	179	146	0
Oklahoma State U., Center for Health Sciences	367	0	309	258	101	0	54	46	32
Central Connecticut State U.	368	ne	119	120	100	ne	87	94	71
Calvin U.	369	159	111	104	97	47	21	20	21
California State U., Channel Islands	370	0	0	0	79	0	0	0	79
CUNY, Brooklyn C.	371	0	116	118	77	0	0	0	0
C. Charleston	372	0	0	67	72	0	0	67	72
Central Washington U.	372	13	70	61	72	0	4	34	45

TABLE 55

**Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
U. Maryland Center for Environmental Science	372	160	90	122	72	63	89	42	0
Coastal Carolina U.	375	0	0	0	68	0	0	0	68
Suffolk U.	376	ne	ne	76	66	ne	ne	76	66
Clafin U.	377	56	145	170	65	42	144	170	65
Colorado State U., Pueblo	378	ne	178	210	64	ne	51	47	51
Texas A&M U.-Commerce	378	5	28	48	64	0	0	0	0
Seattle U.	380	336	283	140	62	185	72	10	10
Eastern Kentucky U.	381	0	0	58	58	0	0	52	56
Bowling Green State U.	382	10	60	121	57	0	0	0	35
Xavier U. Louisiana	382	241	376	65	57	241	376	65	57
Thomas Jefferson U.	384	0	0	143	55	0	0	59	55
Andrews U.	385	ne	47	41	50	ne	41	37	50
Boston C.	385	0	0	0	50	0	0	0	0
Trinity U.	387	108	103	80	47	0	0	0	0
Abilene Christian U.	388	ne	ne	ne	45	ne	ne	ne	45
Dordt U.	388	ne	ne	ne	45	ne	ne	ne	29
Trinity C., Hartford	388	86	86	49	45	19	19	13	1
SUNY, Oswego	391	300	231	125	43	50	81	13	9
Clark Atlanta U.	392	347	214	158	36	347	44	0	11
Sam Houston State U.	392	29	21	20	36	0	0	0	0
Texas Christian U.	392	175	73	46	36	121	0	8	8
Roger Williams U.	395	94	36	30	32	0	0	0	17
St. Cloud State U.	396	183	121	71	31	0	0	0	0
Elon U.	397	83	87	45	29	64	68	25	13
Texas Southern U.	398	98	130	104	27	98	130	76	27
U. Wisconsin-River Falls	399	46	ne	103	18	5	ne	65	18
Providence C.	400	23	41	0	17	23	40	0	17
Southeastern Louisiana U.	401	0	0	4	16	0	0	3	8
Albany State U.	402	3	16	3	14	3	16	3	14
Hawaii Pacific U.	403	0	10	13	13	0	10	13	13
CUNY, York C.	404	ne	91	0	12	ne	89	0	1
CUNY, Graduate Center	405	0	0	30	6	0	0	30	0
Jacksonville State U.	405	8	22	11	6	8	22	11	6
Azusa Pacific U.	407	38	50	31	5	0	0	0	0



TABLE 55

**Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
U. Alaska, Southeast	408	38	0	30	4	38	0	30	0
Salisbury U.	409	1	0	0	3	0	0	0	0
U. San Francisco	409	0	0	6	3	0	0	0	0
Indiana State U.	411	2	1	4	2	0	0	0	0
SUNY, C. Brockport	411	0	0	0	2	0	0	0	0
Doane U.	413	0	0	1 i	1 i	0	0	1 i	1 i
Sonoma State U.	413	ne	ne	1	1	ne	ne	0	0
U. Central Oklahoma	413	0	0	1 i	1 i	0	0	1 i	1 i
All other surveyed institutions	-	154,434	14,394	7,765	0	82,996	9,492	5,929	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

<sup>a</sup> Johns Hopkins University includes the Applied Physics Laboratory (APL), with \$1,125,772 thousand imputed for total and \$1,088,522 thousand reported for federally financed R&D expenditures in engineering in FY 2021. Total expenditures by field for Johns Hopkins University are flagged as imputed because APL was unable to distribute a portion of institutionally funded R&D by field.

<sup>b</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

<sup>c</sup> The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

<sup>d</sup> The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

<sup>e</sup> The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

**Note(s):**

Institutions reporting zero expenditures in ranked total for FY 2021 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 56

## Higher education R&amp;D expenditures in engineering subfields, ranked by all FY 2021 engineering R&amp;D: FYs 2019–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2019	2020	2021									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
All institutions	-	13,214,628	13,707,821	14,293,487	1,451,964	1,560,381	1,024,301	1,482,377	3,080,363	573,915	1,881,551	841,196	2,397,439
Johns Hopkins U. <sup>a</sup>	1	1,147,335	1,205,632	1,237,980	148,593	69,477	21,053	16,577	549,900	99,189	225,086	32,038	76,067
Georgia Institute of Technology	2	664,695	695,176	839,071	253,035	53,590	26,064	23,686	311,881	81,585	56,376	16,362	16,492
SUNY, Polytechnic Institute	3	350,793	353,542	462,562	0	0	0	16	9	0	22	0	462,515
Texas A&M U., College Station and Health Science Center	4	321,373	357,559	385,656	33,837	39,008	18,302	100,161	26,886	9,198	34,921	12,517	110,826
Massachusetts Institute of Technology	5	450,915	419,636	382,569	32,321	100,911	45,797	16,423	42,546	79	46,417	30,592	67,483
Pennsylvania State U., University Park and Hershey Medical Center	6	350,391	367,730	378,667	32,084	30,144	12,167	10,826	108,919	3,459	131,856	49,212	0
Purdue U., West Lafayette	7	270,525	280,592	285,469	24,570	18,756	19,532	35,323	49,674	12,793	52,859	19,817	52,145
U. Texas, Austin	8	249,788	259,935	279,730	13,515	10,287	41,078	37,375	67,530	101	60,298	22,629	26,917
U. Michigan, Ann Arbor	9	291,887	283,329	279,682	13,744	23,304	14,277	20,239	77,614	5,282	45,339	11,156	68,727
Utah State U.	10	202,345	226,616	247,332	224,361	1,286	0	10,955	6,459	130	3,369	0	772
Virginia Polytechnic Institute and State U.	11	258,213	263,711	246,965	20,824	20,998	4,473	29,264	56,194	30,945	24,718	17,397	42,152
U. Illinois, Urbana-Champaign	12	201,028	203,564	216,233	14,809	15,544	18,948	23,693	56,980	0	31,641	17,397	37,221
U. California, Berkeley	13	200,122	209,293	199,711	0	217	7,605	37,190	112,965	28	443	0	41,263
U. Dayton	14	157,016	153,082	180,158	16,125	0	5,851	282	8,558	40,363	7,900	84,081	16,998
U. Colorado Boulder	15	152,391	160,423	177,604	107,850	9,300	12,578	14,432	12,395	0	14,703	1,427	4,919
U. California, San Diego	16	172,919	182,495	177,564	898	59,417	70	815	81,213	0	16,253	303	18,595
North Carolina State U.	17	174,590	174,740	172,900	121	15,474	34,698	18,560	38,755	9,188	13,845	22,957	19,302
Ohio State U.	18	177,518	175,109	163,509	631	3,914	9,574	7,855	25,479	7,830	66,784	20,920	20,522
U. Washington, Seattle	19	155,076	152,919	157,622	11,149	30,131	8,748	19,810	38,990	2,105	15,547	6,292	24,850
Wichita State U.	20	109,248	134,848	157,430	153,492	117	0	0	826	671	531	0	1,793
U. Maryland <sup>b</sup>	21	158,814	153,109	154,163	13,540	20,544	9,361	36,403	16,380	354	16,880	15,120	25,581
Arizona State U.	22	152,395	155,015	145,574	0	12,877	6,943	28,102	44,972	3,255	10,462	8,590	30,373
Stanford U.	23	134,585	130,950	136,251	14,894	23,021	19,090	12,950	25,665	6,338	23,900	8,947	1,446
U. Wisconsin-Madison	24	126,587	133,600	131,709	0	16,836	10,886	13,124	15,878	4,997	12,365	12,706	44,917
U. Tennessee, Knoxville <sup>c</sup>	25	116,528	128,542	128,579	22,796	2,064	6,997	13,080	19,825	32,467	0	12,479	18,871
Iowa State U.	26	104,798	109,473	123,428	6,391	13,461	7,640	25,188	11,018	0	7,849	8,868	43,013
U. Florida	27	107,598	119,066	122,704	4,274	22,294	5,391	23,164	35,639	2,517	15,151	12,698	1,576
U. Minnesota, Twin Cities	28	120,976	120,929	121,637	10,190	29,072	20,684	13,225	18,813	1,148	23,064	5,441	0
Cornell U.	29	110,545	123,703	118,621	3,070	21,468	13,962	8,420	22,815	4,214	18,104	18,557	8,011

TABLE 56

## Higher education R&amp;D expenditures in engineering subfields, ranked by all FY 2021 engineering R&amp;D: FYs 2019–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2019	2020	2021									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
Carnegie Mellon U.	30	95,496	102,955	112,597	1,418	12,620	12,744	7,985	28,010	0	21,721	11,557	16,542
U. California, Davis	31	92,277	97,951	102,370	0	27,314	257	45,387	12,249	0	10,640	0	6,523
Woods Hole Oceanographic Institution	32	83,974	84,333	101,989	0	0	0	0	0	0	0	0	101,989
Rice U.	33	77,299	91,913	100,872	0	41,219	8,848	11,679	23,293	0	5,695	7,745	2,393
SUNY, U. Buffalo	34	95,040	112,843	100,194	15,010	9,847	13,887	7,680	7,382	8,562	19,203	3,079	15,544
New York U.	35	99,711	100,207	99,307	0	87	3,231	1,327	14,570	0	3,129	0	76,963
Duke U.	36	100,379	95,657	94,483	0	45,357	0	9,086	28,351	0	10,058	1,461	170
U. California, Los Angeles	37	95,797	93,520	93,906	0	8,633	7,426	9,578	34,305	0	17,435	6,754	9,775
Harvard U.	38	95,651	97,884	92,782	0	60,912	1,398	3,339	5,783	0	614	19,474	1,262
Northeastern U.	39	79,836	89,954	92,723	0	8,310	4,279	11,238	32,958	9,796	18,259	0	7,883
U. Notre Dame	40	89,702	84,478	90,572	35,176	0	18,988	13,987	21,743	0	0	3	675
U. Delaware	41	66,447	74,258	90,327	0	6,236	54,225	9,288	11,892	0	7,640	0	1,046
Clemson U.	42	76,739	76,971	90,038	0	20,574	5,711	14,579	10,732	1,960	20,325	10,330	5,827
U. Pennsylvania	43	78,444	82,299	88,937	0	25,127	10,192	0	19,676	0	20,591	0	13,351
U. North Dakota	44	54,760	52,511	86,578	0	0	1,188	49,227	2,656	0	1,434	902	31,171
Vanderbilt U. and Vanderbilt U. Medical Center	45	94,340	94,674	86,541	0	17,168	13,397	18,394	22,593	0	11,685	0	3,304
U. California, Santa Barbara	46	67,395	87,681	86,303	0	13,983	7,199	1,672	44,065	0	8,076	10,842	466
New Jersey Institute of Technology	47	78,455	85,445	82,240	0	11,274	8,434	22,210	4,264	529	2,695	74	32,760
Northwestern U.	48	80,413	77,150	80,735	0	14,826	15,296	4,883	8,204	3,995	6,274	16,709	10,548
Boston U.	49	78,154	85,651	79,757	1,582	33,185	232	0	18,580	5,260	10,930	1,220	8,768
Michigan State U.	50	79,638	82,690	79,360	0	20,095	13,601	9,254	16,405	0	11,976	0	8,029
Auburn U., Auburn	51	59,742	70,593	78,720	4,196	1,019	9,320	11,869	10,771	6,100	21,501	564	13,380
U. Southern California	52	76,180	78,005	78,179	1,234	7,307	2,768	13,481	40,794	2,528	5,585	2	4,480
Columbia U. in the City of New York	53	72,596	72,758	75,457	2,074	24,939	8,027	2,059	3,865	543	4,561	0	29,389
U. Arizona	54	75,555	79,463	72,158	1,623	8,351	5,642	1,578	34,712	4,100	3,858	8,397	3,897
Rensselaer Polytechnic Institute	55	59,831	70,156	67,810	0	9,421	10,365	4,669	14,323	493	19,888	5,697	2,954
Mississippi State U.	56	60,183	69,220	67,472	13,204	1,484	5,450	4,619	7,891	7,021	14,245	1,098	12,460
Princeton U.	57	65,000	67,014	67,231	2,029	6,069	5,304	3,830	17,483	2,734	8,114	14,256	7,412
U. California, Irvine	58	55,995	59,695	65,454	0	12,086	5,718	9,317	12,743	0	15,403	7,220	2,967
U. Virginia, Charlottesville	59	83,072	72,602	62,271	0	14,121	5,853	275	13,670	0	8,080	9,385	10,887
U. Massachusetts, Amherst	60	49,745	58,804	60,065	0	4,848	21,100	13,904	9,787	0	8,152	0	2,274

TABLE 56

## Higher education R&amp;D expenditures in engineering subfields, ranked by all FY 2021 engineering R&amp;D: FYs 2019–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2019	2020	2021																					
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec												
U. Texas, Arlington	61	54,450	59,395	58,154	4,249	4,520	0	12,925	5,936	12,949	4,249	0	13,326												
U. Central Florida	62	62,258	59,627	57,620	15,455	20	3	7,217	9,022	4,152	9,220	4,475	8,056												
U. Missouri, Columbia	63	48,028	53,343	56,685	243	1,646	947	5,584	7,519	790	3,938	98	35,920												
U. Pittsburgh, Pittsburgh	64	46,075	53,586	56,681	0	15,435	10,326	4,629	9,017	1,986	10,710	0	4,578												
U. Houston	65	51,806	55,210	56,555	2,016	11,156	12,136	8,173	8,927	405	5,890	1,714	6,138												
U. Alabama, Huntsville	66	40,733	51,198	55,510	35,286	151	1,020	2,965	5,092	4,568	5,285	635	508												
U. Connecticut	67	44,044	46,751	54,185	0	4,486	7,486	17,982	7,267	0	7,914	7,597	1,453												
Colorado School of Mines	68	44,195	46,694	54,062	956	1,213	4,467	11,742	262	1,688	3,389	12,605	17,740												
Oregon State U.	69	49,587	50,900	52,731	0	1,734	2,535	11,938	14,914	3,834	7,331	572	9,873												
U. Kentucky	70	50,743	46,976	52,361	548	2,522	3,360	10,230	2,366	809	3,834	4,508	24,184												
Florida State U.	71	56,352	56,493	52,153	2,403	2,509	1,112	5,631	16,958	2,538	17,755	2,001	1,246												
Montana State U., Bozeman	72	36,521	38,833	51,785	0	5,575	2,544	6,942	5,168	18	7,540	0	23,998												
California Institute of Technology	73	46,972	51,693	51,630	i	6,149	i	6,210	i	7,524	i	11,644	i	5,501	i	0	i	220	i	44	i	14,338	i		
Rutgers, State U. New Jersey, New Brunswick	74	92,937	55,880	51,289	0	6,195	5,396	1,200	6,146	147	6,606	2,521	23,078												
U. Nebraska, Lincoln	75	53,932	51,685	51,287	0	10,699	3,318	18,503	7,635	275	4,764	5,237	856												
U. Texas, Dallas	76	48,666	50,812	50,646	0	14,441	0	0	13,460	986	9,155	5,672	6,932												
U. South Florida <sup>d</sup>	77	45,508	37,162	50,547	814	5,262	3,273	20,584	11,968	1,203	6,108	0	1,335												
George Mason U.	78	36,101	52,423	49,826	0	6,615	0	4,814	18,265	17,285	1,948	290	609												
U. California, Santa Cruz	79	39,111	41,752	49,576	0	1,354	0	0	5,136	0	0	0	43,086												
U. Utah	80	55,478	i	57,608	i	48,225	i	0	i	6,433	i	7,795	i	5,500	i	12,354	i	0	i	10,970	i	2,688	i	2,485	i
Washington State U.	81	39,578	39,533	48,031	207	3,414	5,720	8,508	9,684	98	9,163	4,162	7,075												
U. Iowa	82	50,377	48,433	47,722	0	1,021	699	21,349	2,457	973	1,879	0	19,344												
U. Maine	83	32,368	37,127	46,986	0	99	10,771	1,159	1,795	1,101	2,195	27,956	1,910												
U. Alabama, Birmingham	84	47,555	53,030	46,844	6,538	5,957	942	609	6,491	0	11,323	14,693	291												
Michigan Technological U.	85	47,435	45,263	46,733	0	2,774	2,313	3,488	8,628	0	22,845	3,993	2,692												
U. Alabama, Tuscaloosa	86	31,845	33,019	43,941	2,139	0	4,895	12,506	10,368	0	7,321	6,615	97												
Missouri U. of Science and Technology	87	37,912	36,447	43,470	1,131	11	2,350	6,899	6,958	1,073	5,535	18,105	1,408												
U. Cincinnati	88	46,889	43,098	42,434	6,742	2,573	3,221	7,395	9,718	0	10,250	0	2,535												
Texas Tech U.	89	44,057	42,856	41,962	0	0	8,695	8,904	10,032	2,042	6,036	0	6,253												
Florida International U.	90	35,138	39,826	41,740	0	4,543	0	14,140	12,317	553	5,436	937	3,814												
Colorado State U., Fort Collins	91	42,609	42,839	41,575	0	859	3,119	13,574	8,479	962	12,428	0	2,154												

TABLE 56

## Higher education R&amp;D expenditures in engineering subfields, ranked by all FY 2021 engineering R&amp;D: FYs 2019–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2019	2020	2021									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
U. New Mexico	92	37,950	42,739	41,317	7,900	522	2,708	8,030	11,693	841	1,307	530	7,786
Mercer U.	93	32,624	37,450	40,439	15,276	0	0	8	2,152	0	12,062	10,341	600
West Virginia U.	94	42,516	40,786	39,855	429	0	8,043	3,668	3,868	4,437	11,661	1,930	5,819
U. Oklahoma, Norman and Health Science Center	95	26,569	36,643	39,785	5,873	2,879	4,148	5,747	14,186	1,728	0	0	5,224
SUNY, Binghamton U.	96	30,434	32,668	39,529	0	3,403	0	0	6,175	17,624	8,750	0	3,577
Louisiana State U., Baton Rouge	97	45,803	40,084	39,104	0	0	5,887	10,719	2,338	409	4,568	4,708	10,475
Case Western Reserve U.	98	41,228	37,911	39,079	0	18,039	7,575	853	4,786	0	7,457	0	369
U. Arkansas, Fayetteville	99	34,590	37,758	37,818	0	6,631	5,519	5,225	10,823	4,578	3,420	0	1,622
U. Massachusetts, Lowell	100	33,128	35,847	36,339	0	4,868	11,404	2,285	7,110	0	10,323	0	349
U. South Carolina, Columbia	101	31,748	42,804	36,223	165	0	6,080	3,122	12,670	0	9,653	0	4,533
Yale U.	102	36,591	36,806	35,778	0	10,206	4,798	0	11,492	0	7,730	0	1,552
U. Illinois, Chicago	103	28,226	31,496	35,675	0	14,699	1,872	4,078	4,292	0	10,457	268	9
Oklahoma State U., Stillwater	104	32,947	33,983	35,094	8,901	6	7,092	4,801	3,698	1,610	1,673	1,873	5,440
U. California, Riverside	105	29,020	31,937	34,888	0	1,899	7,505	10,604	8,670	0	4,410	628	1,172
CUNY, City C.	106	28,337	23,140	34,710	0	4,862	2,775	6,216	2,683	0	3,201	0	14,973
Stevens Institute of Technology	107	25,832	33,103	33,983	0	1,348	736	5,119	3,125	0	3,905	0	19,750
Dartmouth C. and Dartmouth Hitchcock Medical Center	108	31,110	31,140	33,559	0	13,613	4,565	791	4,898	6	6,286	0	3,400
Drexel U.	109	31,330	31,230	32,665	0	6,911	6,848	3,585	3,056	0	3,759	6,028	2,478
Virginia Commonwealth U.	110	26,072	29,811	32,233	0	6,629	5,576	0	7,133	0	6,655	0	6,240
U. North Carolina, Chapel Hill	111	31,825	30,774	30,935	0	10,633	0	19,091	0	1,211	0	0	0
U. Louisiana, Lafayette	112	28,397	27,878	30,295	11	2	7,945	4,788	2,759	17	9,519	3,446	1,808
U. Chicago	113	23,773	24,468	30,018	0	0	0	0	0	0	0	0	30,018
New Mexico State U.	114	25,892	25,030	29,884	5,310	9	1,564	4,336	6,947	70	2,015	120	9,513
U.S. Air Force Academy	115	28,489	29,812	29,132	2,823	0	0	0	923	482	24,904	0	0
SUNY, Stony Brook U.	116	28,632	30,180	28,344	0	6,822	0	2,247	7,592	0	2,027	7,459	2,197
U. Nevada, Reno	117	23,568	23,939	27,769	1,740	1,697	2,533	10,045	1,226	0	2,837	2,323	5,368
Kansas State U.	118	27,439	28,155	27,743	1,196	0	3,773	3,191	4,220	1,301	7,043	0	7,019
Worcester Polytechnic Institute	119	21,029	23,758	27,108	484	3,811	2,881	766	2,496	0	14,243	1,419	1,008
Air Force Institute of Technology	120	20,525	23,947	26,780	8,194	0	0	282	5,944	12,119	0	241	0
U. Texas, El Paso	121	26,586	25,172	26,599	24	682	0	3,901	4,411	1,559	13,352	934	1,736
Washington U., Saint Louis	122	23,090	23,821	26,574	0	11,360	5,490	407	5,044	0	0	3,546	727

TABLE 56

## Higher education R&amp;D expenditures in engineering subfields, ranked by all FY 2021 engineering R&amp;D: FYs 2019–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2019	2020	2021									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
Lehigh U.	123	23,447	24,054	25,835	0	1,929	4,104	5,422	2,582	1,671	5,512	4,591	24
Old Dominion U.	124	19,294	25,869	25,811	1,394	0	0	1,081	7,408	13,738	2,188	0	2
Syracuse U.	125	25,412	24,272	24,698	117	5,137	0	3,475	7,359	0	5,608	0	3,002
U. Wyoming	126	19,550	20,317	24,675	30	49	7,763	2,743	532	0	1,985	0	11,573
Naval Postgraduate School	127	22,498	22,933	24,254	7,713	100	34	263	5,791	1,049	2,460	84	6,760
Tufts U.	128	31,630	26,662	24,017	102	11,696	2,918	3,456	2,901	0	1,937	0	1,007
U. Hawaii, Manoa	129	17,089	25,423	23,966	100	788	0	4,284	11,686	0	1,806	0	5,302
Brown U.	130	23,448	23,965	23,587	18	9,028	2,110	0	3,266	0	2,839	3,789	2,537
George Washington U.	131	21,712	22,682	22,749	2,661	7,474	0	1,925	5,445	1,460	972	39	2,773
U. New Hampshire	132	23,861	23,457	22,509	0	519	1,664	6,235	10,411	0	3,443	0	237
U. Texas, San Antonio	133	19,928	22,922	21,499	0	3,532	0	6,580	3,550	496	3,124	0	4,217
U. Kansas	134	20,869	19,830	21,363	1,379	19	8,407	5,459	3,566	0	1,919	0	614
U. Louisville	135	16,302	18,105	20,965	1	5,795	1,595	1,513	5,518	978	1,899	0	3,666
Rochester Institute of Technology	136	20,264	20,910	20,874	0	1,341	1,129	2	4,667	1,786	1,950	0	9,999
U. Georgia	137	18,444	19,273	20,289	0	1,587	6,195	7,789	3,782	0	0	0	936
Brigham Young U., Provo	138	14,001	15,943	20,162	0	0	4,500	1,868	6,346	987	6,461	0	0
U. North Texas, Denton	139	15,773	15,205	18,285	0	1,557	0	0	1,348	0	1,878	12,875	627
U. Alaska, Fairbanks	140	14,922	17,843	17,314	399	0	0	4,248	9,918	0	369	135	2,245
Florida Atlantic U.	141	11,450	10,574	17,064	92	0	0	3,601	660	0	0	0	12,711
U. Rochester	142	14,872	16,116	16,780	0	5,734	1,020	0	4,712	0	4,512	0	802
Ohio U.	143	19,502	16,291	16,645	2,827	0	4,925	2,140	586	210	321	909	4,727
U. North Carolina, Charlotte	144	16,000	19,781	15,643	0	0	0	3,011	1,687	32	3,940	0	6,973
Boise State U.	145	11,688	13,956	14,918	90	4,057	529	903	3,033	354	183	3,493	2,276
North Dakota State U.	146	12,030	14,007	13,963	0	0	0	3,629	1,446	673	2,859	0	5,356
U. California, Merced	147	13,852	15,191	13,854	0	2,352	0	223	0	0	4,870	971	5,438
Illinois Institute of Technology	148	15,241	11,934	13,737	1,261	5,874	289	637	3,704	368	1,156	78	370
South Dakota School of Mines and Technology	149	11,226	12,677	13,658	0	907	6,154	1,193	674	10	396	2,331	1,993
Oregon Health and Science U.	150	12,134	12,856	13,526	0	13,526	0	0	0	0	0	0	0
Indiana U., Bloomington	151	11,265	14,373	13,012	0	2,592	0	0	0	10,420	0	0	0
New Mexico Institute of Mining and Technology	152	14,043	13,084	13,002	336	0	8,898	367	395	0	1,212	1,141	653
U. Idaho	153	17,497	17,035	12,944	1,161	1,046	654	1,993	1,067	9	480	637	5,897

TABLE 56

## Higher education R&amp;D expenditures in engineering subfields, ranked by all FY 2021 engineering R&amp;D: FYs 2019–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2019	2020	2021									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
Cleveland State U.	154	17,278	16,225	12,371	0	6,951	1,199	495	1,305	101	2,152	0	168
U. Vermont	155	7,864	11,209	11,914	2,425	0	0	3,890	2,484	0	2,656	0	459
Wayne State U.	156	14,634	12,806	11,675	0	1,962	3,250	2,720	1,679	630	1,003	0	431
North Carolina Agricultural and Technical State U.	157	11,766	10,393	11,616	0	290	0	1,880	3,053	1,470	1,499	0	3,424
Rowan U.	158	8,447	11,784	11,570	0	1,704	3,191	3,634	809	0	339	0	1,893
Emory U.	159	9,614	11,349	11,488	0	11,488	0	0	0	0	0	0	0
U. Puerto Rico, Mayaguez	160	16,446	16,903	11,397	0	0	3,699	2,515	1,711	31	996	1,562	883
Embry-Riddle Aeronautical U.	161	8,374	12,015	11,279	10,226	0	0	317	0	0	669	0	67
Louisiana Tech U.	162	11,513	11,459	11,257	0	1,826	980	1,259	894	120	1,761	811	3,606
U. Tulsa	163	13,213	13,182	10,926	0	0	602	0	625	0	3,252	0	6,447
U. Rhode Island	164	10,632	10,182	10,766	0	510	1,539	1,195	1,793	0	2,026	40	3,663
San Diego State U.	165	8,197	7,934	10,715	847	113	0	2,814	3,031	0	2,777	0	1,133
U. Nevada, Las Vegas	166	15,736	12,729	10,667	0	104	0	4,307	1,914	0	3,192	0	1,150
U. Toledo	167	11,256	10,023	10,299	0	584	2,160	458	955	0	4,477	0	1,665
Clarkson U.	168	10,889	9,363	10,113	0	300	2,548	2,310	2,793	504	1,627	0	31
Southern Methodist U.	169	9,207	9,798	9,972	0	0	0	990	3,773	27	1,439	0	3,743
Howard U.	170	8,401	8,336	9,535	337	0	605	1,434	4,068	0	1,335	0	1,756
Villanova U.	171	9,612	10,193	9,484	0	0	848	3,615	1,150	0	1,673	0	2,198
U. Memphis	172	9,464	10,741	9,464	13	1,736	0	5,490	562	0	986	92	585
Texas State U.	173	4,611	6,892	9,321	23	218	0	242	280	0	99	4,672	3,787
U. Missouri, Kansas City	174	7,089	8,351	9,174	27	0	0	1,021	7,604	0	346	0	176
Marquette U.	175	8,988	10,059	9,027	0	3,345	0	1,233	2,109	0	909	0	1,431
U. Wisconsin-Milwaukee	176	9,915	9,683	8,577	0	379	0	1,729	2,311	252	2,192	777	937
Tennessee Technological U.	177	7,267	7,559	8,455	0	0	121	1,837	2,426	239	3,636	0	196
Temple U.	178	8,042	9,294	8,279	0	2,096	0	2,018	1,898	0	1,801	0	466
Wright State U.	179	39,164	29,519	8,129	1	1,319	0	0	5,236	0	1,329	0	244
U. Nebraska, central administration	180	1,687	8,340	8,060	0	2,022	0	20	860	0	336	1,094	3,728
Western Michigan U. and Homer Stryker M.D. School of Medicine	181	5,595	5,091	8,058	484	717	4,160	483	272	31	1,024	145	742
U. Massachusetts, Dartmouth	182	7,764	7,944	8,049	0	1,226	0	1,644	2,710	0	2,460	0	9
Morgan State U.	183	3,990	7,228	8,031	176	0	0	2,252	4,014	327	0	0	1,262

TABLE 56

## Higher education R&amp;D expenditures in engineering subfields, ranked by all FY 2021 engineering R&amp;D: FYs 2019–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2019	2020	2021									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
U.S. Military Academy	184	3,799	5,297	7,772	0	0	339	586	2,315	1,259	1,840	0	1,433
U. Akron	185	16,650	11,345	7,714	0	811	1,355	1,119	320	0	3,728	0	381
Medical C. Wisconsin	186	7,800	8,542	7,560	0	7,560	0	0	0	0	0	0	0
Baylor U.	187	3,720	4,515	7,241	2,064	598	0	0	2,054	206	2,149	0	170
South Dakota State U.	188	5,516	5,490	7,161	0	0	0	843	648	0	603	0	5,067
Missouri State U.	189	3,234	10,257	7,024	0	0	0	0	0	0	0	7,024	0
U.S. Naval Academy	190	7,482	7,376	6,719	705	0	0	0	1,728	0	1,123	0	3,163
Portland State U.	191	9,160	6,719	6,668	122	0	0	2,730	2,229	257	589	458	283
U. Maryland, Baltimore County	191	8,429	6,671	6,668	818	1,938	658	585	843	124	715	138	849
Tulane U.	193	8,416	6,881	6,662	0	3,994	2,657	3	0	0	0	0	8
Indiana U.-Purdue U., Indianapolis	194	6,730	7,177	6,604	0	2,096	0	52	1,671	0	2,310	0	475
Texas A&M U.-Corpus Christi	195	7,193	7,064	6,590	4,346	0	2	719	94	40	203	0	1,186
Northern Arizona U.	196	2,613	4,996	6,497	0	1,213	207	322	3,506	0	527	12	710
U. Michigan, Dearborn	197	6,832	7,088	6,223	0	0	0	0	3,097	898	1,774	0	454
U. Mississippi	198	8,821	13,661	6,033	598	261	610	864	1,693	154	478	364	1,011
California State U., Sacramento	199	7,507	7,744	5,986	0	0	0	5,901	0	0	85	0	0
U. Southern Mississippi	200	3,371	5,999	5,963	0	0	11	0	0	0	0	0	5,952
Florida Institute of Technology	201	4,782	5,362	5,891	665	564	177	574	296	257	1,295	41	2,022
Montana Technological U.	202	4,428	4,331	5,834	0	0	66	325	312	0	100	4,984	47
Humboldt State U.	203	5,232	4,261	5,564	0	277	0	848	3,122	107	0	10	1,200
Tuskegee U.	204	5,372	5,922	5,528	44	432	0	0	512	0	533	3,507	500
California Polytechnic State U., San Luis Obispo	205	4,117	4,646	5,522	1,314	128	0	1,033	180	41	865	26	1,935
U. Texas Rio Grande Valley	206	3,573	4,018	5,354	24	252	0	445	572	2,041	1,034	15	971
Florida A&M U.	207	4,477	4,796	5,222	0	0	1,552	1,494	209	440	633	0	894
U. South Alabama	208	2,411	3,640	5,085	0	0	2,508	1,373	543	0	317	0	344
Prairie View A&M U.	209	5,121	5,222	4,687	15	408	130	124	2,688	0	634	67	621
Texas A&M U.-Kingsville	210	1,827	2,653	4,622	50	0	128	104	693	0	1,305	0	2,342
California State U., Long Beach	211	4,223	4,733	4,574	154	861	532	652	1,083	0	593	0	699
U. Miami	212	5,400	5,060	4,527	0	642	0	1,993	258	0	993	0	641
Oakland U.	213	3,836	1,041	4,437	0	0	0	0	1,624	487	2,326	0	0
Idaho State U.	214	4,039	5,014	4,411	0	0	0	158	64	0	111	0	4,078



TABLE 56

## Higher education R&amp;D expenditures in engineering subfields, ranked by all FY 2021 engineering R&amp;D: FYs 2019–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2019	2020	2021															
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec						
Miami U.	215	3,070	3,783	4,356	0	1,002	1,186	0	1,181	550	275	0	162						
Northern Illinois U.	216	1,418	1,467	4,134	0	0	0	0	88	2,965	404	0	677						
Brandeis U.	217	0	1,048	4,055	503	2,030	0	1,522	0	0	0	0	0						
Georgia Southern U.	218	1,257	1,929	4,052	0	0	0	1,145	601	637	1,576	0	93						
Catholic U. of America	219	2,587	3,518	3,926	0	1,312	0	347	1,189	0	948	0	130						
New School	220	2,828	3,205	3,793	0	0	1,293	755	6	2	1,458	0	279						
Kent State U.	221	2,330	2,743	3,732	1,835	103	422	0	222	18	111	35	986						
U. Colorado Denver <sup>e</sup>	222	na	na	3,695	0	286	0	772	1,067	0	1,266	0	304						
San Jose State U.	223	1,864	2,863	3,664	237	10	414	258	1,745	172	212	0	616						
U. Tennessee, Chattanooga	224	2,460	3,319	3,578	0	0	182	658	569	0	146	0	2,023						
U. Denver	225	4,010	4,461	3,558	0	2,155	0	0	486	0	0	917	0						
U. of St. Thomas (MN)	226	407	976	3,212	0	0	0	0	93	79	503	0	2,537						
U. of the District of Columbia	227	708	1,388	3,134	17	0	0	167	190	1,014	1,746	0	0						
SUNY, U. Albany	228	3,087	3,319	3,133	0	0	0	0	1,715	0	0	0	1,418						
Milwaukee School of Engineering	229	3,825	3,105	3,129	0	157	0	1,293	15	0	988	0	676						
Southern Illinois U., Carbondale	230	2,905	2,333	3,120	0	148	0	194	1,273	0	846	152	507						
East Carolina U.	231	2,015	3,053	3,069	0	0	0	395	38	0	0	0	2,636						
Tennessee State U.	232	1,207	2,922	3,062	i	0	i	0	79	i	1,066	i	0	989	i	0	i	928	i
CUNY, Advanced Science Research Center	233	1,379	2,289	2,928	0	21	136	1,167	0	0	0	0	0	1,604					
Alfred U.	234	5,032	2,720	2,654	0	0	0	0	0	0	0	2,654	0						
California State U., Maritime Academy	235	2,959	3,202	2,603	0	0	0	0	0	0	0	0	2,603						
Marshall U.	236	1,158	1,137	2,475	0	4	0	2,194	0	0	23	20	234						
Lamar U.	237	1,609	1,825	2,437	0	0	1,013	228	171	880	145	0	0						
Pennsylvania State U., Behrend	238	1,508	1,232	2,395	0	1,011	100	0	86	494	408	296	0						
U. Minnesota, Duluth	239	2,399	2,186	2,392	0	0	99	1,133	150	692	0	0	318						
San Francisco State U.	240	1,284	2,251	i	2,386	0	260	0	626	907	0	402	0	191					
Southern U. and A&M C., Baton Rouge	241	1,905	1,424	2,282	0	0	0	0	171	0	2,111	0	0						
Pittsburg State U.	242	1,990	1,659	2,250	47	92	1,936	0	0	0	0	175	0						
Jackson State U.	243	3,354	1,468	2,236	0	0	0	1,157	969	1	0	0	109						
Purdue U., Northwest	244	1,352	2,521	2,220	0	0	0	57	24	657	1,476	0	6						
U. North Florida	245	2,392	2,433	2,119	0	0	0	937	100	20	755	0	307						

TABLE 56

## Higher education R&amp;D expenditures in engineering subfields, ranked by all FY 2021 engineering R&amp;D: FYs 2019–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2019	2020	2021									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
U. North Carolina, general administration	246	2,239	2,467	2,068	0	731	493	0	295	0	549	0	0
Saint Louis U.	247	2,344	2,621	1,999	0	462	0	624	0	0	913	0	0
U. New Orleans	248	2,376	2,282	1,897	0	0	0	219	649	0	563	0	466
Kennesaw State U.	249	617	1,478	1,858	31	67	0	738	125	0	585	0	312
Youngstown State U.	250	3,993	3,491	1,794	0	0	1	965	345	0	401	82	0
Southern Illinois U., Edwardsville	251	2,348	1,424	1,786	0	1,054	0	586	35	4	107	0	0
North Carolina Central U.	252	1,212	2,675	1,773	0	1,773	0	0	0	0	0	0	0
Alabama A&M U.	253	2,354 i	1,603 i	1,714 i	0 i	0 i	0 i	365 i	651 i	120 i	403 i	175 i	0 i
California State U., San Marcos	254	797	2,408	1,682	0	2	0	0	0	0	0	0	1,680
U. Alaska, Anchorage	255	1,393	1,101	1,674	0	0	0	617	267	26	529	0	235
Santa Clara U.	256	876	948	1,588	0	462	0	0	284	0	757	0	85
California State Polytechnic U., Pomona	257	1,085	1,875	1,516	226	25	358	664	0	15	88	28	112
Bucknell U.	258	1,632	1,690 i	1,494	0	114	390	335	216	0	265	0	174
California State U., Los Angeles	259	879 i	922	1,486	0	0	0	824	56	0	606	0	0
U. South Dakota	260	3,243	1,385	1,429	0	1,429	0	0	0	0	0	0	0
Norfolk State U.	261	1,940	1,312	1,413	0	0	0	0	174	0	0	0	1,239
West Texas A&M U.	262	1,178	1,277	1,400	0	0	538	183	1	31	0	0	647
California State U., San Bernardino	263	2,434	1,598	1,382	0	36	0	1,079	0	0	0	0	267
U. South Carolina, Aiken	264	1,520	1,331	1,322	0	0	0	0	0	0	0	0	1,322
California State U., Fresno	265	1,492	1,748	1,290	0	38	0	652	405	6	184	0	5
U. Oklahoma, Tulsa	266	1,549	1,816	1,289	0	161	0	0	1,128	0	0	0	0
Virginia State U.	267	793	1,058	1,273	950	0	0	0	0	209	0	0	114
U. Massachusetts, Boston	268	1,255	1,206	1,266	0	63	0	0	907	0	0	0	296
U. Texas Medical Branch	269	1,596	1,192	1,259	0	1,259	0	0	0	0	0	0	0
California State U., Chico	270	567	1,120	1,236	0	0	7	445	276	0	470	0	38
California State U., Northridge	271	714	1,115	1,216	4	137	0	14	72	0	830	43	116
U. Colorado Anschutz Medical Campus <sup>e</sup>	272	na	na	1,204	0	1,204	0	0	0	0	0	0	0
Wake Forest U.	272	385	859	1,204	0	0	0	0	0	0	0	0	1,204
U. Puerto Rico, Rio Piedras	274	37	341	1,152	0	1,152	0	0	0	0	0	0	0
CUNY, system office	275	1,001	1,132	1,137	0	0	0	0	0	0	0	0	1,137
Manhattan C.	276	809	716	1,122	0	0	279	731	112	0	0	0	0

TABLE 56

## Higher education R&amp;D expenditures in engineering subfields, ranked by all FY 2021 engineering R&amp;D: FYs 2019–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2019	2020	2021									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
SUNY, C. of Environmental Science and Forestry	277	1,339	912	1,085	0	241	133	622	66	0	0	0	23
U. North Carolina, Wilmington	278	1,226	640	1,064	614	0	0	429	21	0	0	0	0
U. Nebraska, Omaha	279	993	1,195	1,051	329	283	1	354	84	0	0	0	0
U. Ana G. Mendez, Gurabo	280	2,324	884	1,034	0	0	0	74	66	14	81	0	799
California State U., East Bay	281	ne	132	1,024	0	0	0	0	1,022	2	0	0	0
Minnesota State U., Mankato	282	1,472	1,486	996	0	0	0	245	81	0	122	0	548
U. San Diego	283	776	1,252	980	0	0	0	0	0	94	34	0	852
U. Hartford	284	1,300	1,002	963	0	0	0	8	0	0	817	0	138
Franklin W. Olin C. of Engineering	285	534	491	936	52	0	0	15	417	0	270	0	182
U. Colorado Colorado Springs	286	694	1,367	902	32	0	0	0	526	0	344	0	0
California State U., Bakersfield	287	2,050	1,449	839	0	0	0	0	52	0	0	0	787
U. of the Virgin Islands	288	61	902	832	785	0	0	0	0	0	0	0	47
Florida Polytechnic U.	289	1,739	689	829	0	0	0	0	339	0	89	394	7
Hampton U.	290	1,049	866	827	0	0	57	0	770	0	0	0	0
U. Arkansas, Little Rock	291	2,116	1,627	809	703	0	0	0	0	1	105	0	0
U. Texas of the Permian Basin	292	ne	217	792	0	0	0	0	0	0	0	0	792
Western Illinois U.	293	409	79	780	0	0	0	0	0	0	0	780	0
New York Institute of Technology	294	1,045	458	775	0	0	0	0	588	0	187	0	0
Oregon Institute of Technology	295	798	679	761	0	0	0	105	190	61	116	0	289
Morehead State U.	296	806	1,271	756	723	0	0	0	33	0	0	0	0
Union C., Schenectady	297	118	204	722	0	21	0	0	82	0	618	0	1
South Carolina State U.	298	662	687	712	0	0	226	0	0	0	0	0	486
U. West Florida	299	21	277	709	0	0	0	0	0	0	323	0	386
Pace U.	300	435	516	706	0	0	0	0	0	0	706	0	0
Smith C.	301	553	952	688	12	92	1	0	33	0	227	5	318
U. Tennessee, Health Science Center	302	610	648	687	0	687	0	0	0	0	0	0	0
California State U., Fullerton	303	609	616	661	0	0	0	48	234	0	159	0	220
Christopher Newport U.	304	575	566	656	559	97	0	0	0	0	0	0	0
Fort Lewis C.	305	760	505	605	22	49	0	0	74	0	0	0	460
Western Kentucky U.	306	597	689	604	0	0	89	65	78	0	289	0	83
Middle Tennessee State U.	307	59	182	592	114	0	0	460	0	0	0	0	18

TABLE 56

## Higher education R&amp;D expenditures in engineering subfields, ranked by all FY 2021 engineering R&amp;D: FYs 2019–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2019	2020	2021									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
Savannah State U.	308	526	639	588	0	241	316	0	0	0	0	0	31
Western Washington U.	309	832	989	587	0	0	0	0	0	0	0	0	587
Lawrence Technological U.	310	882	806	555	0	1	0	404	59	0	91	0	0
U. Texas, Tyler	311	394	344	537	0	0	82	139	48	0	251	0	17
Hofstra U.	312	521	299	528	0	13	0	17	427	8	0	0	63
Harvey Mudd C.	313	884	628	515	10 i	21 i	77 i	47 i	100 i	0 i	147 i	8 i	105 i
Purdue U., Fort Wayne	314	221	443	465	0	0	0	81	84	0	227	0	73
Eastern Michigan U.	315	304	402	427	0	63	34	178	65	28	15	0	44
Central Michigan U.	316	559	736	412	293	1	16	0	29	0	0	2	71
Johnson C. Smith U.	317	0	364	386 i	0 i	0 i	0 i	370 i	0 i	0 i	0 i	0 i	16 i
Pennsylvania State U., Harrisburg	317	312	74	386	0	21	0	126	166	0	73	0	0
Arkansas State U., Jonesboro	319	553	371	384	0	0	0	229	35	0	120	0	0
Alabama State U.	320	0	533	366	0	0	0	0	0	0	0	0	366
Keck Graduate Institute	321	326 i	336 i	356 i	0 i	356 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Chapman U.	322	0	102	348	0	0	0	0	0	0	0	0	348
Wellesley C.	323	0	633	345	345	0	0	0	0	0	0	0	0
U. Wisconsin-Green Bay	324	353 i	338 i	327 i	0 i	0 i	0 i	95 i	142 i	0 i	90 i	0 i	0 i
U. New Haven	325	1,013	533	319	0	31	0	38	5	168	8	0	69
U. Washington, Tacoma	325	0	59	319	0	174	0	0	140	0	5	0	0
Delaware State U.	327	2,248	316 i	308	0	0	0	0	110	0	198	0	0
Western Carolina U.	328	365	371	305	0	0	0	16	0	0	0	0	289
U. Washington, Bothell	329	161	0	304	0	0	0	0	2	0	302	0	0
Kettering U.	330	1,354	1,046	295	0	0	44	0	177	1	73	0	0
Fayetteville State U.	331	0	0	288	0	0	0	0	0	0	0	0	288
C. New Jersey	332	ne	105	283	0	120	0	110	48	0	5	0	0
Saginaw Valley State U.	333	239	277	280 i	0 i	0 i	0 i	0 i	5 i	0 i	26 i	249 i	0 i
Hope C.	334	128	175	277	0	0	0	0	0	0	277	0	0
CUNY, C. Staten Island	335	1	294	274	0	0	92	73	0	0	0	0	109
Citadel Military C. South Carolina	336	ne	34	250	0	0	0	220	10	0	9	0	11
Texas A&M International U.	337	30	71	241	0	1	0	0	0	0	0	0	240
U. Wisconsin-Stevens Point	337	52 i	60	241	0	0	109	132	0	0	0	0	0

TABLE 56

## Higher education R&amp;D expenditures in engineering subfields, ranked by all FY 2021 engineering R&amp;D: FYs 2019–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2019	2020	2021									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
Loyola Marymount U.	339	160	165	234	0	0	0	98	0	0	96	0	40
U. of the Pacific	340	68	89	228	0	214	0	0	0	0	14	0	0
U. Michigan, Flint	341	152	376	225	0	0	0	0	0	0	0	0	225
Central State U.	342	340	166	211	0	0	0	195	0	0	0	0	16
Liberty U.	343	311	838	208	0	0	0	0	0	0	180	0	28
U. Wisconsin-Superior	344	4	9	207	7	0	0	0	0	0	0	0	200
Lipscomb U.	345	ne	188 i	203	0	0	0	58	0	0	3	0	142
Lafayette C.	346	184	251	201	0	0	186	15	0	0	0	0	0
U. Houston-Downtown	347	42	36	189	0	0	0	0	0	0	0	0	189
U. of the Incarnate Word	348	47	72	186	0	36	0	0	0	0	150	0	0
Alcorn State U.	349	343	133	181	0	0	0	0	0	0	158	0	23
James Madison U.	350	313	305	174	0	1	0	8	10	30	0	0	125
Swarthmore C.	350	314	367	174	0	0	0	50	38	0	86	0	0
U. Wisconsin-Platteville	352	145 i	145 i	171 i	0 i	0 i	0 i	16 i	33 i	11 i	60 i	0 i	51 i
Biola U.	353	162 i	167 i	167 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	167 i
Tarleton State U.	354	61	156	166	0	0	0	0	0	0	131	0	35
U. Southern Maine	355	23	27	159	105	0	0	0	0	33	0	21	0
U. Wisconsin-Oshkosh	356	146 i	152 i	158	0	0	0	0	0	0	0	0	158
Florida Gulf Coast U.	357	59	250	145	0	0	0	112	0	0	0	0	33
U. Maryland, Eastern Shore	358	40	128	144	144	0	0	0	0	0	0	0	0
East Tennessee State U.	359	2 i	65 i	138 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	138 i
Grand Valley State U.	360	400	236	118	0	0	0	0	1	0	2	0	115
Keene State C.	361	8	8	114	0	0	0	0	0	114	0	0	0
U. Detroit Mercy	361	227	119	114	0	0	0	8	87	0	19	0	0
Fairfield U.	363	60	117	109	0	5	0	0	44	0	9	0	51
Montclair State U.	364	0	14	104	5	99	0	0	0	0	0	0	0
CUNY, New York City C. of Technology	365	478	367	103	0	0	0	40	0	3	56	0	4
Duquesne U.	366	525	374	102	0	102	0	0	0	0	0	0	0
Oklahoma State U., Center for Health Sciences	367	309	258	101	0	101	0	0	0	0	0	0	0
Central Connecticut State U.	368	119	120	100	74	0	7	14	0	2	0	0	3
Calvin U.	369	111	104 i	97 i	0 i	20 i	0 i	0 i	21 i	0 i	0 i	0 i	56 i

TABLE 56

## Higher education R&amp;D expenditures in engineering subfields, ranked by all FY 2021 engineering R&amp;D: FYs 2019–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2019	2020	2021										
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec	
California State U., Channel Islands	370	0	0	79	0	0	0	0	0	0	0	79	0	0
CUNY, Brooklyn C.	371	116	118	77	0	0	0	0	0	0	74	0	0	3
C. Charleston	372	0	67	72	0	0	72	0	0	0	0	0	0	0
Central Washington U.	372	70	61	72	0	0	0	0	0	0	72	0	0	0
U. Maryland Center for Environmental Science	372	90	122	72	0	0	0	72	0	0	0	0	0	0
Coastal Carolina U.	375	0	0	68	0	68	0	0	0	0	0	0	0	0
Suffolk U.	376	ne	76	66	66	0	0	0	0	0	0	0	0	0
Clafin U.	377	145	170	65	0	1	0	0	0	0	0	0	64	0
Colorado State U., Pueblo	378	178	210	64	13	0	0	0	0	0	0	0	0	51
Texas A&M U.-Commerce	378	28	48	64	0	0	0	0	0	0	0	0	0	64
Seattle U.	380	283	140	62	0	0	0	1	47	0	0	0	0	14
Eastern Kentucky U.	381	0	58	58	0	0	0	0	0	0	0	0	0	58
Bowling Green State U.	382	60	121	57	0	0	0	0	0	0	0	0	0	57
Xavier U. Louisiana	382	376	65	57	0	0	0	0	0	0	0	0	0	57
Thomas Jefferson U.	384	0	143	55	0	0	0	0	0	0	0	0	0	55
Andrews U.	385	47	41	50	0	0	0	0	0	0	0	0	0	50
Boston C.	385	0	0	50	0	0	0	0	0	0	0	0	0	50
Trinity U.	387	103	80	47	0	0	47	0	0	0	0	0	0	0
Abilene Christian U.	388	ne	ne	45	45	0	0	0	0	0	0	0	0	0
Dordt U.	388	ne	ne	45	0	0	9	0	0	0	0	0	0	36
Trinity C., Hartford	388	86	49	45	0	0	0	0	0	0	0	0	0	45
SUNY, Oswego	391	231	125	43	0	0	0	0	36	0	0	0	0	7
Clark Atlanta U.	392	214	158	36	0	0	0	0	0	0	0	0	0	36
Sam Houston State U.	392	21	20	36	0	0	0	0	0	0	0	0	0	36
Texas Christian U.	392	73	46	36	8	0	0	0	0	22	0	0	0	6
Roger Williams U.	395	36	30	32	0	0	0	0	0	0	0	0	0	32
St. Cloud State U.	396	121	71	31	0	0	0	0	26	1	4	0	0	0
Elon U.	397	87	45	29	0	13	0	0	0	0	0	0	0	16
Texas Southern U.	398	130	104	27	0	0	0	0	0	0	0	0	0	27
U. Wisconsin-River Falls	399	ne	103	18	0	0	0	0	0	0	0	0	0	18
Providence C.	400	41	0	17	0	0	0	0	0	0	0	17	0	0

TABLE 56

## Higher education R&amp;D expenditures in engineering subfields, ranked by all FY 2021 engineering R&amp;D: FYs 2019–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2019	2020	2021										
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec	
Southeastern Louisiana U.	401	0	4	16	0	0	0	0	0	0	16	0	0	0
Albany State U.	402	16	3	14	14	0	0	0	0	0	0	0	0	0
Hawaii Pacific U.	403	10	13	13	13	0	0	0	0	0	0	0	0	0
CUNY, York C.	404	91	0	12	0	1	0	0	0	0	0	0	0	11
CUNY, Graduate Center	405	0	30	6	6	0	0	0	0	0	0	0	0	0
Jacksonville State U.	405	22	11	6	0	0	0	0	0	0	0	0	0	6
Azusa Pacific U.	407	50	31	5	0	0	0	0	0	0	0	5	0	0
U. Alaska, Southeast	408	0	30	4	0	0	0	0	0	0	0	0	0	4
Salisbury U.	409	0	0	3	0	0	0	0	0	0	0	3	0	0
U. San Francisco	409	0	6	3	0	0	0	3	0	0	0	0	0	0
Indiana State U.	411	1	4	2	0	0	0	2	0	0	0	0	0	0
SUNY, C. Brockport	411	0	0	2	0	0	0	0	0	0	0	0	0	2
Doane U.	413	0	1 i	1 i	0 i	1 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Sonoma State U.	413	ne	1	1	0	0	0	0	0	1	0	0	0	0
U. Central Oklahoma	413	0	1 i	1 i	0 i	0 i	1 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
All other surveyed institutions	-	14,394	7,765	0	0	0	0	0	0	0	0	0	0	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

nec = not elsewhere classified.

<sup>a</sup> Johns Hopkins University includes the Applied Physics Laboratory (APL), with \$1,125,772 thousand imputed for total R&D expenditures in engineering in FY 2021. Total expenditures by field for Johns Hopkins University are flagged as imputed because APL was unable to distribute a portion of institutionally funded R&D by field.

<sup>b</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

<sup>c</sup> The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

<sup>d</sup> The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

<sup>e</sup> The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

**Note(s):**

Institutions reporting zero expenditures in ranked total for FY 2021 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.



TABLE 57

## Federally financed higher education R&amp;D expenditures in engineering subfields, ranked by all FY 2021 engineering R&amp;D: FYs 2019–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2019	2020	2021									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
All institutions	-	7,668,193	8,121,089	8,714,829	1,110,088	960,152	572,307	664,620	2,209,153	384,142	1,274,012	559,447	980,908
Johns Hopkins U. <sup>a</sup>	1	1,100,587	1,154,993	1,183,154	143,676	62,057	19,340	14,081	530,652	95,907	215,395	28,502	73,544
Georgia Institute of Technology	2	506,061	537,693	666,235	234,250	31,464	15,430	13,410	255,395	67,209	34,669	8,275	6,133
Pennsylvania State U., University Park and Hershey Medical Center	3	258,324	277,345	284,244	9,902	11,208	8,872	6,222	98,885	2,898	108,650	37,607	0
Utah State U.	4	183,794	206,998	228,986	218,810	660	0	2,201	4,568	130	2,095	0	522
U. Texas, Austin	5	160,506	175,426	194,110	11,817	6,410	16,274	8,555	60,559	89	56,531	16,633	17,242
Massachusetts Institute of Technology	6	230,312	213,108	193,246	19,648	60,938	15,390	5,024	27,467	48	19,187	12,852	32,692
U. Michigan, Ann Arbor	7	175,137	176,141	180,607	8,535	16,768	9,229	7,646	50,738	2,892	29,551	7,645	47,603
U. Dayton	8	146,841	145,508	171,865	15,823	0	5,501	131	7,430	39,515	7,170	79,405	16,890
U. Illinois, Urbana-Champaign	9	130,075	131,529	139,887	11,049	10,369	12,092	15,785	39,208	0	22,650	10,839	17,895
Purdue U., West Lafayette	10	111,292	122,469	137,052	16,251	6,783	9,647	6,886	27,327	4,494	27,162	11,269	27,233
U. Colorado Boulder	11	92,099	105,890	132,769	79,020	7,461	10,490	11,263	8,686	0	10,975	1,294	3,580
Texas A&M U., College Station and Health Science Center	12	77,456	95,138	123,286	22,741	25,427	6,054	21,942	11,997	5,014	7,974	7,270	14,867
U. Washington, Seattle	13	108,560	114,031	119,758	8,159	21,979	7,577	11,489	31,858	1,363	10,536	3,599	23,198
Virginia Polytechnic Institute and State U.	14	104,138	107,677	108,080	9,620	9,004	2,021	8,934	29,619	10,983	10,804	10,529	16,566
U. California, San Diego	15	88,846	97,602	100,212	0	37,321	70	442	41,776	0	12,248	123	8,232
U. Maryland <sup>b</sup>	16	86,168	86,398	95,898	8,707	13,146	7,632	16,119	14,410	354	9,546	9,990	15,994
Woods Hole Oceanographic Institution	17	72,016	75,442	93,266	0	0	0	0	0	0	0	0	93,266
North Carolina State U.	18	91,264	94,592	91,430	89	7,064	11,044	6,729	29,217	2,715	8,422	12,090	14,060
Stanford U.	19	79,988	81,391	89,861	11,954	14,908	8,952	6,919	20,148	5,229	16,001	4,873	877
Ohio State U.	20	85,547	85,038	88,435	462	2,567	6,583	3,164	15,967	3,738	33,623	13,019	9,312
U. Minnesota, Twin Cities	21	71,695	74,167	78,808	8,859	20,004	13,497	5,096	12,341	326	14,340	4,345	0
U. California, Berkeley	22	81,194	79,645	78,026	0	0	3,497	6,743	59,529	0	0	0	8,257
U. Wisconsin-Madison	23	68,617	73,412	75,104	0	8,872	6,332	5,395	10,024	2,672	8,118	7,103	26,588
Duke U.	24	72,560	73,605	74,308	0	35,586	0	5,006	24,354	0	7,769	1,461	132
Arizona State U.	25	72,655	80,121	73,746	0	7,748	3,916	13,306	26,115	1,776	7,776	4,076	9,033
Cornell U.	26	63,696	69,870	72,771	1,153	15,678	8,664	5,789	12,102	1,841	13,159	11,661	2,724
U. Florida	27	60,844	62,573	72,191	3,048	11,605	2,970	11,861	23,639	1,029	10,809	6,951	279
Northeastern U.	28	61,116	66,614	69,550	0	6,249	2,782	8,800	29,072	6,517	12,442	0	3,688
U. Delaware	29	47,975	53,448	68,504	0	4,723	40,891	7,274	9,582	0	6,030	0	4
SUNY, U. Buffalo	30	50,811	61,140	66,790	12,941	3,501	7,183	3,279	4,592	5,684	17,762	1,661	10,187

TABLE 57

## Federally financed higher education R&amp;D expenditures in engineering subfields, ranked by all FY 2021 engineering R&amp;D: FYs 2019–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2019	2020	2021									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
U. Tennessee, Knoxville <sup>c</sup>	31	67,165	66,562	66,556	15,668	1,117	3,867	5,826	11,717	8,226	0	7,362	12,773
Columbia U. in the City of New York	32	59,672	62,020	64,962	2,047	21,666	6,438	1,858	3,293	520	3,221	0	25,919
Wichita State U.	33	22,954	46,023	64,692	63,391	0	0	0	503	504	264	0	30
Carnegie Mellon U.	34	49,854	56,175	63,083	1,360	8,867	6,482	3,513	16,196	0	13,821	7,247	5,597
Iowa State U.	35	43,241	62,369	62,113	3,269	10,305	3,194	9,236	5,634	0	4,473	6,433	19,569
Northwestern U.	36	47,948	49,383	55,739	0	10,847	10,323	3,130	5,784	2,792	5,049	13,026	4,788
U. California, Los Angeles	37	52,488	49,163	53,761	0	4,744	4,057	3,557	19,409	0	12,520	5,032	4,442
U. Southern California	38	52,737	55,089	51,948	720	5,975	1,975	3,337	31,208	2,173	4,496	0	2,064
Harvard U.	39	45,835	52,801	50,918	0	29,970	1,206	598	4,093	0	614	14,437	0
New Jersey Institute of Technology	40	53,994	53,702	50,822	0	3,386	4,395	13,967	1,700	0	410	0	26,964
U. Pennsylvania	41	39,422	44,542	49,526	0	16,932	6,101	0	13,290	0	13,185	0	18
Boston U.	42	45,017	53,265	48,537	1,544	20,842	0	0	10,634	4,093	6,286	0	5,138
Rice U.	43	37,781	42,085	46,799	0	12,615	4,030	7,577	16,368	0	2,306	3,843	60
Clemson U.	44	39,395	38,214	46,693	0	9,047	3,674	6,820	6,228	735	11,320	5,660	3,209
U. California, Santa Barbara	45	33,589	43,340	44,958	0	11,709	4,678	0	19,764	0	5,822	2,649	336
U. Alabama, Huntsville	46	31,957	42,499	44,780	31,051	0	470	2,587	2,880	3,632	3,317	586	257
Princeton U.	47	41,480	40,829	44,201	1,392	2,832	2,542	1,441	10,707	2,577	5,564	13,513	3,633
Mississippi State U.	48	33,935	45,520	44,188	10,732	684	4,203	2,715	2,933	4,159	9,463	333	8,966
George Mason U.	49	31,276	45,977	44,086	0	4,056	0	3,264	17,837	16,815	1,311	213	590
Vanderbilt U. and Vanderbilt U. Medical Center	50	52,742	52,373	43,570	0	9,362	6,308	8,900	11,087	0	6,018	0	1,895
U. Alabama, Birmingham	51	37,724	44,243	43,477	5,974	4,442	942	372	6,474	0	10,454	14,693	126
U. California, Davis	52	37,549	37,203	43,175	0	18,445	188	6,667	8,697	0	4,386	0	4,792
U. Notre Dame	53	40,258	41,771	42,501	11,931	0	6,988	8,325	15,235	0	0	0	22
Auburn U., Auburn	54	25,694	28,796	40,288	2,098	142	3,806	5,034	4,737	3,515	12,943	164	7,849
Montana State U., Bozeman	55	25,349	28,753	39,190	0	2,587	970	4,821	3,658	0	4,699	0	22,455
Oregon State U.	56	36,090	35,946	38,914	0	1,170	1,102	8,442	11,735	3,376	5,498	294	7,297
U. Connecticut	57	26,390	30,450	37,988	0	3,297	3,711	12,966	4,856	0	6,053	6,810	295
Colorado School of Mines	58	31,066	33,432	37,909	927	1,040	3,663	10,535	110	1,605	2,725	10,789	6,515
U. Pittsburgh, Pittsburgh	59	31,347	36,623	37,749	0	11,756	7,635	3,122	6,091	1,271	7,853	0	21
U. Virginia, Charlottesville	60	43,878	41,454	37,143	0	8,788	3,464	275	10,183	0	6,144	7,745	544
U. Central Florida	61	33,413	34,825	36,318	13,128	0	0	2,862	4,018	2,995	5,439	2,404	5,472

TABLE 57

## Federally financed higher education R&amp;D expenditures in engineering subfields, ranked by all FY 2021 engineering R&amp;D: FYs 2019–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2019	2020	2021									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
Rutgers, State U. New Jersey, New Brunswick	62	35,917	40,629	35,691	0	4,166	3,955	318	5,905	25	5,565	2,325	13,432
U. North Dakota	63	28,684	20,330	35,155	0	0	237	28,327	566	0	454	227	5,344
Florida State U.	64	39,126	38,126	34,492	811	2,309	565	2,276	13,696	1,065	11,954	1,547	269
U. Arizona	65	35,880	34,459	34,360	1,270	4,157	3,596	495	14,878	2,217	2,444	3,097	2,206
U. California, Santa Cruz	66	25,568	22,817	33,002	0	1	0	0	4,542	0	0	0	28,459
U. Kentucky	67	28,999	26,818	33,001	458	1,998	2,085	6,485	1,390	614	2,948	2,834	14,189
U. New Mexico	67	30,449	34,153	33,001	6,916	419	1,859	5,842	9,250	320	1,027	530	6,838
U. Massachusetts, Amherst	69	26,896	28,635	32,063	0	3,017	12,630	6,766	4,768	0	4,451	0	431
Mercer U.	70	25,358	29,625	31,923	13,028	0	0	0	900	0	8,397	9,598	0
Rensselaer Polytechnic Institute	71	28,307	28,960	31,832	0	5,185	3,947	943	5,723	346	13,244	2,011	433
Michigan State U.	72	29,787	31,431	31,314	0	3,244	4,703	4,513	8,638	0	6,006	0	4,210
Case Western Reserve U.	73	29,335	27,954	30,483	0	14,713	6,177	499	2,004	0	7,018	0	72
Colorado State U., Fort Collins	74	31,135	30,860	30,424	0	831	2,651	9,493	7,581	742	8,298	0	828
U. Utah	75	32,365	34,915	29,330	0	4,169	4,581	2,898	7,748	0	7,228	1,640	1,066
U. California, Irvine	76	24,021	27,421	29,315	0	7,567	3,290	3,211	6,410	0	4,999	3,715	123
U.S. Air Force Academy	77	28,489	29,812	28,914	2,805	0	0	0	723	482	24,904	0	0
U. Maine	78	13,614	18,038	27,452	0	0	5,817	276	279	15	471	20,111	483
Stevens Institute of Technology	79	18,945	23,906	26,766	0	1,037	639	4,616	2,572	0	2,636	0	15,266
U. Houston	80	23,838	24,929	26,599	1,301	7,090	5,287	3,291	4,387	240	3,709	341	953
Michigan Technological U.	81	21,801	23,332	26,289	0	1,224	882	1,420	6,713	0	14,708	1,230	112
U. South Florida <sup>d</sup>	82	22,743	18,073	26,183	458	3,527	1,151	9,986	6,347	732	3,982	0	0
U. Chicago	83	17,275	20,168	25,909	0	0	0	0	0	0	0	0	25,909
U. Alabama, Tuscaloosa	84	16,390	19,679	25,859	1,087	0	3,185	5,352	8,118	0	4,982	3,135	0
U. Texas, Dallas	85	19,512	21,594	24,793	0	8,819	0	0	5,002	627	6,808	2,006	1,531
Dartmouth C. and Dartmouth Hitchcock Medical Center	86	21,279	21,064	24,126	0	9,724	3,934	763	3,824	0	5,881	0	0
SUNY, Polytechnic Institute	87	36,816	26,696	24,019	0	0	0	0	0	0	22	0	23,997
California Institute of Technology	88	24,690	26,324	24,011	3,637	361	5,520	7,085	2,329	0	213	42	4,824
Florida International U.	89	19,899	21,747	23,801	0	2,986	0	8,538	7,011	253	3,925	320	768
U. Texas, Arlington	90	22,053	22,163	23,581	1,489	2,178	0	2,290	3,321	10,493	1,489	0	2,321
Yale U.	91	24,674	24,172	23,578	0	6,862	2,666	0	8,575	0	5,475	0	0
Washington State U.	92	18,943	20,360	23,129	0	1,196	3,236	3,646	5,291	61	3,762	2,571	3,366

TABLE 57

## Federally financed higher education R&amp;D expenditures in engineering subfields, ranked by all FY 2021 engineering R&amp;D: FYs 2019–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2019	2020	2021									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
U. Iowa	93	21,473	20,687	23,116	0	233	207	9,711	1,547	526	919	0	9,973
Washington U., Saint Louis	94	18,895	19,552	22,291	0	9,658	4,629	317	4,253	0	0	2,747	687
Missouri U. of Science and Technology	95	17,811	16,411	21,797	704	0	1,070	3,542	3,316	543	3,481	8,361	780
U. Illinois, Chicago	96	14,707	17,537	21,610	0	7,822	1,135	2,566	3,123	0	6,964	0	0
U. Nebraska, Lincoln	97	20,375	21,149	21,450	0	3,601	935	8,909	3,628	0	2,121	2,243	13
Drexel U.	98	20,443	19,772	20,821	0	4,363	5,389	2,251	2,567	0	2,379	2,674	1,198
Naval Postgraduate School	99	20,124	20,145	20,798	7,236	100	34	263	5,383	751	2,052	84	4,895
U. North Carolina, Chapel Hill	100	19,251	17,813	19,983	0	7,098	0	11,952	0	933	0	0	0
New Mexico State U.	101	17,202	15,583	19,957	3,875	0	1,131	2,739	6,115	63	1,674	0	4,360
Tufts U.	102	26,143	20,397	19,362	102	9,300	2,615	2,219	2,669	0	1,899	0	558
U. Massachusetts, Lowell	103	13,443	14,870	18,884	0	3,780	4,540	916	3,044	0	6,423	0	181
New York U.	104	14,986	15,445	18,633	0	0	2,463	614	7,454	0	2,560	0	5,542
U. California, Riverside	105	16,217	17,034	18,541	0	1,322	5,695	1,977	5,900	0	3,150	497	0
CUNY, City C.	106	16,998	15,704	18,078	0	4,034	2,076	2,964	1,915	0	2,919	0	4,170
West Virginia U.	107	19,835	15,930	18,042	28	0	4,647	1,488	1,980	1,429	6,092	209	2,169
U. Arkansas, Fayetteville	108	14,659	18,074	17,980	0	2,823	2,089	2,051	7,903	1,535	1,332	0	247
SUNY, Stony Brook U.	109	15,637	15,329	17,613	0	4,620	0	636	5,063	0	1,386	5,479	429
Air Force Institute of Technology	110	14,015	15,238	17,065	3,651	0	0	282	3,480	9,524	0	128	0
U. South Carolina, Columbia	111	16,076	15,010	17,042	0	0	3,537	2,340	4,124	0	6,260	0	781
Lehigh U.	112	15,374	16,205	16,976	0	1,255	2,984	2,866	1,677	1,343	4,441	2,410	0
U. Hawaii, Manoa	113	10,777	17,536	16,553	100	411	0	2,252	10,588	0	1,396	0	1,806
Worcester Polytechnic Institute	114	11,735	13,084	16,095	228	1,506	1,849	319	1,097	0	10,448	0	648
Brown U.	115	17,289	17,138	15,963	0	6,437	1,828	0	2,402	0	1,725	2,887	684
U. Missouri, Columbia	116	14,331	16,905	15,905	200	774	916	4,161	5,740	398	3,132	92	492
Brigham Young U., Provo	117	9,188	11,438	15,694	0	0	3,537	966	5,533	724	4,934	0	0
U. Texas, El Paso	118	11,995	11,812	15,602	0	656	0	1,745	2,397	1,101	8,508	114	1,081
Texas Tech U.	119	14,017	14,399	15,359	0	0	3,939	2,973	5,792	349	2,242	0	64
Oklahoma State U., Stillwater	120	11,962	11,969	15,319	4,299	0	3,191	2,301	1,414	381	1,031	987	1,715
U. Oklahoma, Norman and Health Science Center	121	13,783	15,069	15,235	2,298	425	1,010	1,838	8,086	540	0	0	1,038
George Washington U.	122	14,597	15,091	15,052	2,219	4,914	0	1,201	4,515	916	412	36	839
U. Rochester	123	11,814	12,764	14,213	0	5,385	476	0	4,144	0	4,208	0	0

TABLE 57

## Federally financed higher education R&amp;D expenditures in engineering subfields, ranked by all FY 2021 engineering R&amp;D: FYs 2019–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2019	2020	2021									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
Kansas State U.	124	12,503	12,530	13,810	698	0	2,224	655	2,466	535	4,674	0	2,558
U. Cincinnati	125	12,015	11,447	12,970	2,189	587	712	3,341	3,756	0	2,145	0	240
U. Kansas	126	14,177	13,829	12,206	925	19	3,915	2,332	3,509	0	1,506	0	0
U. Louisville	127	8,248	9,077	11,844	1	2,994	1,108	447	3,753	454	1,231	0	1,856
U. Nevada, Reno	128	8,785	9,664	11,419	159	1,023	1,154	3,844	77	0	1,425	1,300	2,437
U. Alaska, Fairbanks	129	9,090	11,998	11,355	130	0	0	1,819	7,667	0	35	97	1,607
Illinois Institute of Technology	130	12,061	9,230	11,070	929	5,138	265	470	2,528	325	1,070	0	345
Florida Atlantic U.	131	7,007	6,955	11,045	92	0	0	2,371	556	0	0	0	8,026
Louisiana State U., Baton Rouge	132	11,587	10,268	11,014	0	0	1,602	2,350	1,217	197	2,194	34	3,420
Oregon Health and Science U.	133	10,649	9,549	10,841	0	10,841	0	0	0	0	0	0	0
Rochester Institute of Technology	134	8,136	7,965	10,659	0	1,076	1,072	0	2,329	219	1,037	0	4,926
New Mexico Institute of Mining and Technology	135	13,004	11,869	10,164	336	0	6,106	363	395	0	1,187	1,134	643
Virginia Commonwealth U.	136	9,482	11,779	9,924	0	3,443	2,484	0	1,070	0	2,927	0	0
South Dakota School of Mines and Technology	137	7,570	8,887	9,834	0	261	4,680	888	517	5	248	2,156	1,079
Old Dominion U.	138	8,179	11,802	9,683	866	0	0	523	4,053	3,217	1,024	0	0
Boise State U.	139	6,377	8,245	9,596	90	3,573	474	456	1,895	6	62	2,331	709
U. North Carolina, Charlotte	140	7,845	8,853	9,381	0	0	0	1,587	1,367	0	2,996	0	3,431
Embry-Riddle Aeronautical U.	141	6,291	7,943	9,272	8,734	0	0	89	0	0	396	0	53
North Carolina Agricultural and Technical State U.	142	9,713	8,664	9,071	0	280	0	1,388	2,631	1,299	1,417	0	2,056
U. New Hampshire	143	12,286	11,466	8,984	0	519	1,042	4,560	834	0	2,029	0	0
Emory U.	144	6,256	8,676	8,356	0	8,356	0	0	0	0	0	0	0
U. Georgia	145	6,292	7,208	8,139	0	211	2,210	3,575	2,143	0	0	0	0
U. Puerto Rico, Mayaguez	146	8,892	9,428	8,136	0	0	2,893	1,585	1,040	31	566	1,138	883
Rowan U.	147	4,229	7,616	8,035	0	1,564	2,853	2,497	596	0	316	0	209
Syracuse U.	148	7,616	7,696	8,013	117	2,662	0	1,163	2,706	0	1,365	0	0
U. Rhode Island	149	7,329	6,939	7,962	0	510	755	297	1,520	0	2,000	27	2,853
Cleveland State U.	150	11,036	11,055	7,748	0	6,183	699	68	183	0	615	0	0
U. Toledo	151	6,062	5,921	7,574	0	391	1,406	210	879	0	3,660	0	1,028
U. Nebraska, central administration	152	1,687	8,340	7,510	0	2,022	0	20	310	0	336	1,094	3,728
U. Missouri, Kansas City	153	5,349	6,902	7,506	12	0	0	329	6,666	0	323	0	176
SUNY, Binghamton U.	154	6,356	6,526	7,463	0	1,463	0	0	1,418	3,402	1,180	0	0

TABLE 57

## Federally financed higher education R&amp;D expenditures in engineering subfields, ranked by all FY 2021 engineering R&amp;D: FYs 2019–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2019	2020	2021									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
Howard U.	155	6,046	6,241	7,420	0	0	335	1,068	3,872	0	1,335	0	810
U. Wyoming	156	6,075	4,640	7,391	30	49	2,475	2,104	521	0	1,778	0	434
U. Texas, San Antonio	157	5,949	5,961	7,346	0	1,185	0	1,165	1,348	330	962	0	2,356
U.S. Military Academy	158	3,799	5,252	7,334	0	0	339	586	2,122	1,249	1,805	0	1,233
U. North Texas, Denton	159	5,962	3,805	7,232	0	89	0	0	371	0	600	6,172	0
U. Louisiana, Lafayette	160	4,247	3,557	6,909	11	2	1,095	2,223	978	17	319	1,556	708
Missouri State U.	161	3,176	10,096	6,872	0	0	0	0	0	0	0	6,872	0
U. Idaho	162	8,525	8,376	6,705	962	330	548	1,253	701	9	308	414	2,180
Wright State U.	163	25,868	23,496	6,695	0	1,008	0	0	4,955	0	532	0	200
U.S. Naval Academy	164	7,311	7,202	6,604	705	0	0	0	1,728	0	1,123	0	3,048
Indiana U., Bloomington	165	4,864	6,314	5,752	0	0	0	0	0	5,752	0	0	0
Wayne State U.	166	6,640	5,947	5,695	0	938	2,442	1,021	495	254	114	0	431
U. Vermont	167	5,190	4,853	5,537	1,688	0	0	1,238	1,354	0	1,257	0	0
Ohio U.	168	5,252	4,454	5,340	1,865	0	550	1,254	143	0	36	557	935
Medical C. Wisconsin	169	6,029	6,389	5,221	0	5,221	0	0	0	0	0	0	0
Morgan State U.	170	3,376	4,847	5,001	0	0	0	1,934	1,763	42	0	0	1,262
Northern Arizona U.	171	1,106	3,649	4,910	0	764	85	51	3,424	0	422	0	164
Florida A&M U.	172	4,057	4,492	4,852	0	0	1,544	1,228	189	409	604	0	878
Temple U.	173	3,830	4,758	4,734	0	1,414	0	1,007	840	0	1,336	0	137
U. Maryland, Baltimore County	174	4,862	4,651	4,657	776	1,355	472	202	601	124	265	138	724
Montana Technological U.	175	3,606	3,161	4,639	0	0	0	242	200	0	71	4,126	0
U. California, Merced	176	4,652	5,760	4,627	0	1,655	0	169	0	0	1,655	456	692
Clarkson U.	177	5,883	4,584	4,577	0	0	1,142	1,040	1,440	0	928	0	27
San Diego State U.	178	3,801	3,851	4,553	483	113	0	1,526	924	0	1,507	0	0
U. Mississippi	179	4,752	12,422	4,487	580	0	478	558	1,519	154	322	0	876
North Dakota State U.	180	3,254	3,085	4,341	0	0	0	1,205	663	64	1,125	0	1,284
Tuskegee U.	181	4,097	4,177	4,213	44	0	0	0	492	0	415	3,262	0
Western Michigan U. and Homer Stryker M.D. School of Medicine	182	1,945	1,580	4,194	402	4	2,600	346	229	0	613	0	0
Louisiana Tech U.	183	4,263	4,582	4,117	0	720	362	208	205	0	629	270	1,723
Indiana U.-Purdue U., Indianapolis	184	3,298	4,354	4,040	0	1,551	0	0	775	0	1,576	0	138
U. Nevada, Las Vegas	185	6,161	4,946	4,037	0	0	0	1,837	715	0	1,485	0	0

TABLE 57

## Federally financed higher education R&amp;D expenditures in engineering subfields, ranked by all FY 2021 engineering R&amp;D: FYs 2019–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2019	2020	2021									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
Portland State U.	186	4,887	4,113	4,021	115	0	0	1,227	1,728	0	420	281	250
Tulane U.	187	4,170	4,050	4,016	0	3,043	973	0	0	0	0	0	0
U. Akron	188	6,447	5,096	3,985	0	650	751	679	196	0	1,691	0	18
Marquette U.	189	3,033	4,291	3,866	0	1,957	0	137	1,130	0	642	0	0
South Dakota State U.	190	2,925	2,674	3,854	0	0	0	610	495	0	439	0	2,310
Southern Methodist U.	191	5,145	5,103	3,590	0	0	0	399	2,258	0	898	0	35
Tennessee Technological U.	192	2,402	2,756	3,392	0	0	96	391	924	208	1,742	0	31
U. South Alabama	193	1,467	2,624	3,209	0	0	1,490	831	343	0	241	0	304
U. Wisconsin-Milwaukee	194	2,537	2,940	3,193	0	0	0	631	958	25	1,393	179	7
U. Colorado Denver <sup>e</sup>	195	na	na	3,152	0	286	0	455	1,067	0	1,121	0	223
U. of the District of Columbia	196	708	1,388	3,134	17	0	0	167	190	1,014	1,746	0	0
California State U., Long Beach	197	2,109	2,533	2,942	128	676	398	452	387	0	563	0	338
Texas A&M U.-Kingsville	198	1,187	1,830	2,923	50	0	0	38	137	0	1,213	0	1,485
Florida Institute of Technology	199	2,391	3,305	2,903	256	2	2	137	226	108	624	0	1,548
Prairie View A&M U.	200	3,183	3,184	2,885	0	0	97	124	1,443	0	534	67	620
U. Texas Rio Grande Valley	200	1,134	1,761	2,885	23	252	0	66	0	1,435	230	15	864
U. Miami	202	2,532	2,128	2,816	0	450	0	989	138	0	721	0	518
Tennessee State U.	203	824	2,584	2,732	0	0	0	26	793	0	987	0	926
California State U., Sacramento	204	3,443	3,150	2,687	0	0	0	2,687	0	0	0	0	0
Catholic U. of America	205	1,961	2,925	2,680	0	1,176	0	11	772	0	721	0	0
California Polytechnic State U., San Luis Obispo	206	1,566	1,338	2,636	1,241	14	0	398	166	14	295	0	508
U. Tennessee, Chattanooga	207	1,216	2,277	2,574	0	0	44	570	385	0	44	0	1,531
U. Massachusetts, Dartmouth	208	2,696	2,170	2,434	0	254	0	709	914	0	557	0	0
U. Tulsa	209	1,520	1,387	2,410	0	0	110	0	362	0	1,822	0	116
Texas A&M U.-Corpus Christi	210	2,020	2,800	2,340	979	0	0	213	94	0	131	0	923
U. Memphis	211	2,489	2,513	2,275	9	699	0	984	153	0	219	92	119
Southern U. and A&M C., Baton Rouge	212	1,454	1,360	2,185	0	0	0	0	171	0	2,014	0	0
Villanova U.	213	1,543	1,375	2,122	0	0	159	832	463	0	668	0	0
Idaho State U.	214	1,203	2,491	2,022	0	0	0	19	13	0	58	0	1,932
U. Southern Mississippi	215	3,286	1,823	1,970	0	0	11	0	0	0	0	0	1,959
U. Michigan, Dearborn	216	1,129	1,681	1,907	0	0	0	0	1,127	72	708	0	0

TABLE 57

## Federally financed higher education R&amp;D expenditures in engineering subfields, ranked by all FY 2021 engineering R&amp;D: FYs 2019–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2019	2020	2021									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
Northern Illinois U.	217	222	246	1,856	0	0	0	0	62	1,311	308	0	175
CUNY, Advanced Science Research Center	218	1,289	1,968	1,845	0	0	134	1,053	0	0	0	0	658
Jackson State U.	219	2,908	1,262	1,817	0	0	0	948	770	0	0	0	99
California State U., San Marcos	220	797	2,408	1,680	0	0	0	0	0	0	0	0	1,680
Marshall U.	221	502	434	1,671	0	3	0	1,649	0	0	9	10	0
Baylor U.	222	1,440	1,271	1,598	87	178	0	0	897	0	436	0	0
Texas State U.	223	623	746	1,537	23	0	0	143	250	0	99	172	850
SUNY, U. Albany	224	512	1,039	1,393	0	0	0	0	949	0	0	0	444
East Carolina U.	225	475	366	1,376	0	0	0	189	0	0	0	0	1,187
U. South Carolina, Aiken	226	1,453	1,331	1,322	0	0	0	0	0	0	0	0	1,322
Youngstown State U.	227	2,667	2,818	1,261	0	0	0	881	41	0	339	0	0
Alabama A&M U.	228	1,581 i	1,078 i	1,204 i	0 i	0 i	0 i	203 i	496 i	81 i	297 i	127 i	0 i
U. Colorado Anschutz Medical Campus <sup>e</sup>	229	na	na	1,189	0	1,189	0	0	0	0	0	0	0
Saint Louis U.	230	1,176	1,549	1,183	0	267	0	442	0	0	474	0	0
U. Puerto Rico, Rio Piedras	231	37	270	1,152	0	1,152	0	0	0	0	0	0	0
Norfolk State U.	232	1,940	1,312	1,081	0	0	0	0	174	0	0	0	907
California State U., Northridge	233	604	926	1,069	4	137	0	0	5	0	817	43	63
California State U., Los Angeles	234	688	806	1,067	0	0	0	543	34	0	490	0	0
California State Polytechnic U., Pomona	235	728	1,141	1,040	177	4	252	392	0	15	88	0	112
U. Denver	236	1,879	2,109	1,037	0	461	0	0	249	0	0	327	0
Purdue U., Northwest	237	376	1,128	1,032	0	0	0	22	4	0	1,006	0	0
San Francisco State U.	238	371	981 i	990	0	95	0	257	638	0	0	0	0
North Carolina Central U.	239	789	1,929	959	0	959	0	0	0	0	0	0	0
Oakland U.	240	720	233	953	0	0	0	0	430	0	523	0	0
Alfred U.	241	1,459	887	933	0	0	0	0	0	0	0	933	0
U. Alaska, Anchorage	242	562	644	869	0	0	0	371	193	0	178	0	127
Kent State U.	243	1,860	1,278	830	13	89	420	0	157	0	110	35	6
Hampton U.	244	1,049	866	827	0	0	57	0	770	0	0	0	0
Santa Clara U.	245	215	393	814	0	58	0	0	59	0	697	0	0
U. of the Virgin Islands	246	61	834	809	762	0	0	0	0	0	0	0	47
Georgia Southern U.	247	174	301	804	0	0	0	502	159	16	127	0	0



TABLE 57

## Federally financed higher education R&amp;D expenditures in engineering subfields, ranked by all FY 2021 engineering R&amp;D: FYs 2019–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2019	2020	2021										
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec	
Western Illinois U.	248	321	71	780	0	0	0	0	0	0	0	0	780	0
California State U., Chico	249	179	613	768	0	0	0	93	276	0	399	0	0	0
Morehead State U.	250	754	1,208	756	723	0	0	0	33	0	0	0	0	0
California State U., Bakersfield	251	1,453	1,179	751	0	0	0	0	12	0	0	0	0	739
CUNY, system office	252	912	662	731	0	0	0	0	0	0	0	0	0	731
U. South Dakota	252	1,280	440	731	0	731	0	0	0	0	0	0	0	0
South Carolina State U.	254	662	687	712	0	0	226	0	0	0	0	0	0	486
U. Arkansas, Little Rock	255	1,224	950	708	640	0	0	0	0	0	68	0	0	0
Milwaukee School of Engineering	256	695	613	704	0	144	0	0	15	0	55	0	0	490
San Jose State U.	257	1,029	1,575	700	0	0	246	0	148	0	51	0	0	255
U. San Diego	258	633	686	692	0	0	0	0	0	0	8	0	0	684
West Texas A&M U.	259	477	500	673	0	0	280	0	0	31	0	0	0	362
U. Ana G. Mendez, Gurabo	260	575	365	667	0	0	0	0	0	0	0	0	0	667
New York Institute of Technology	261	697	372	666	0	0	0	0	479	0	187	0	0	0
Christopher Newport U.	262	575	566	656	559	97	0	0	0	0	0	0	0	0
Franklin W. Olin C. of Engineering	263	111	255	636	0	0	0	15	364	0	92	0	0	165
Lamar U.	264	442	838	635	0	0	424	31	89	91	0	0	0	0
Pace U.	265	404	464	626	0	0	0	0	0	0	626	0	0	0
Pennsylvania State U., Behrend	266	408	337	610	0	41	100	0	4	122	220	123	0	0
Southern Illinois U., Carbondale	267	392	180	606	0	0	0	115	366	0	59	66	0	0
Union C., Schenectady	268	10	81	595	0	21	0	0	4	0	570	0	0	0
Savannah State U.	269	526	639	588	0	241	316	0	0	0	0	0	0	31
U. Hartford	270	791	605	585	0	0	0	8	0	0	577	0	0	0
Smith C.	271	463	725	571	0	88	0	0	0	0	180	0	0	303
U. of St. Thomas (MN)	272	25	19	565	0	0	0	0	52	79	434	0	0	0
Fort Lewis C.	273	702	477	563	22	29	0	0	74	0	0	0	0	438
U. Nebraska, Omaha	274	683	859	545	277	0	0	268	0	0	0	0	0	0
Wake Forest U.	275	148	208	544	0	0	0	0	0	0	0	0	0	544
Bucknell U.	276	533	554	543	0	46	196	116	147	0	33	0	0	5
Miami U.	277	361	667	532	0	0	119	0	406	7	0	0	0	0
California State U., Fullerton	278	288	534	530	0	0	0	0	197	0	113	0	0	220

TABLE 57

Federally financed higher education R&D expenditures in engineering subfields, ranked by all FY 2021 engineering R&D: FYs 2019–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2019	2020	2021									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
U. Massachusetts, Boston	279	533	547	498	0	63	0	0	435	0	0	0	0
U. Colorado Colorado Springs	280	649	877	488	25	0	0	0	130	0	333	0	0
Hofstra U.	281	506	288	478	0	0	0	0	427	0	0	0	51
California State U., Fresno	282	419	526	474	0	0	0	24	297	0	148	0	5
California State U., Maritime Academy	283	617	621	450	0	0	0	0	0	0	0	0	450
U. Texas Medical Branch	284	411	276	425	0	425	0	0	0	0	0	0	0
New School	285	99	116	422	0	0	0	172	1	0	0	0	249
U. Oklahoma, Tulsa	286	919	1,066	421	0	87	0	0	334	0	0	0	0
Brandeis U.	287	0	0	409	409	0	0	0	0	0	0	0	0
SUNY, C. of Environmental Science and Forestry	288	259	158	396	0	102	8	271	0	0	0	0	15
Johnson C. Smith U.	289	0	364	386	0	0	0	370	0	0	0	0	16
Wellesley C.	290	0	633	345	345	0	0	0	0	0	0	0	0
U. Minnesota, Duluth	291	319	180	341	0	0	0	93	9	239	0	0	0
Virginia State U.	292	165	210	321	0	0	0	0	0	209	0	0	112
U. North Florida	293	360	304	316	0	0	0	60	33	0	18	0	205
Pittsburg State U.	294	12	50	314	47	92	0	0	0	0	0	175	0
U. Washington, Tacoma	294	0	59	314	0	174	0	0	140	0	0	0	0
Florida Polytechnic U.	296	283	159	312	0	0	0	0	128	0	11	173	0
U. North Carolina, general administration	297	189	552	306	0	0	0	0	295	0	11	0	0
U. Washington, Bothell	298	146	0	304	0	0	0	0	2	0	302	0	0
U. North Carolina, Wilmington	299	484	335	297	0	0	0	297	0	0	0	0	0
Kennesaw State U.	300	105	74	289	0	0	0	86	0	0	140	0	63
Fayetteville State U.	301	0	0	288	0	0	0	0	0	0	0	0	288
U. Texas of the Permian Basin	302	ne	82	270	0	0	0	0	0	0	0	0	270
U. West Florida	303	0	196	265	0	0	0	0	0	0	204	0	61
Harvey Mudd C.	304	440	175	256	2	10	31	3	57	0	91	8	54
Arkansas State U., Jonesboro	305	180	144	248	0	0	0	173	0	0	75	0	0
Keck Graduate Institute	306	208	215	238	0	238	0	0	0	0	0	0	0
Western Carolina U.	307	269	291	237	0	0	0	0	0	0	0	0	237
CUNY, C. Staten Island	308	0	249	235	0	0	92	73	0	0	0	0	70
Hope C.	309	116	138	232	0	0	0	0	0	0	232	0	0

TABLE 57

## Federally financed higher education R&amp;D expenditures in engineering subfields, ranked by all FY 2021 engineering R&amp;D: FYs 2019–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2019	2020	2021									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
Western Washington U.	310	336	475	230	0	0	0	0	0	0	0	0	230
U. of the Pacific	311	68	89	228	0	214	0	0	0	0	0	14	0
Pennsylvania State U., Harrisburg	312	15	44	219	0	11	0	42	166	0	0	0	0
Central State U.	313	340	166	211	0	0	0	195	0	0	0	0	16
Humboldt State U.	314	16	153	208	0	0	0	195	0	0	0	0	13
Southern Illinois U., Edwardsville	314	475	240	208	0	79	0	122	7	0	0	0	0
U. New Orleans	316	344	250	204	0	0	0	2	38	0	51	0	113
Lipscomb U.	317	ne	188 i	203	0	0	0	58	0	0	3	0	142
Delaware State U.	318	1,218	172 i	198	0	0	0	0	0	0	198	0	0
U. Houston-Downtown	319	0	28	189	0	0	0	0	0	0	0	0	189
Alcorn State U.	320	330	126	178	0	0	0	0	0	0	155	0	23
Minnesota State U., Mankato	321	174	244	170	0	0	0	14	0	0	37	0	119
U. Wisconsin-Green Bay	322	147 i	159 i	167 i	0 i	0 i	0 i	34 i	83 i	0 i	50 i	0 i	0 i
Lawrence Technological U.	323	210	227	141	0	0	0	105	0	0	36	0	0
U. of the Incarnate Word	324	0	0	139	0	36	0	0	0	0	103	0	0
Citadel Military C. South Carolina	325	ne	13	136	0	0	0	126	4	0	6	0	0
C. New Jersey	326	ne	8	133	0	82	0	9	42	0	0	0	0
U. Wisconsin-Stevens Point	327	40 i	47	132	0	0	0	132	0	0	0	0	0
Purdue U., Fort Wayne	328	160	194	125	0	0	0	5	0	0	91	0	29
U. Maryland, Eastern Shore	328	0	125	125	125	0	0	0	0	0	0	0	0
Biola U.	330	109 i	113 i	117 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	117 i
U. Texas, Tyler	331	71	47	115	0	0	14	25	34	0	42	0	0
Keene State C.	332	8	8	114	0	0	0	0	0	114	0	0	0
Saginaw Valley State U.	333	124	105	110 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	110 i	0 i
East Tennessee State U.	334	2	52	101	0	0	0	0	0	0	0	0	101
Middle Tennessee State U.	335	3	76	100	0	0	0	82	0	0	0	0	18
Central Michigan U.	336	162	84	95	0	0	0	0	29	0	0	0	66
CUNY, New York City C. of Technology	337	442	353	93	0	0	0	37	0	0	56	0	0
Lafayette C.	338	107	139	84	0	0	69	15	0	0	0	0	0
Western Kentucky U.	339	2	68	82	0	0	82	0	0	0	0	0	0
Eastern Michigan U.	340	9	102	81	0	0	0	81	0	0	0	0	0

TABLE 57

## Federally financed higher education R&amp;D expenditures in engineering subfields, ranked by all FY 2021 engineering R&amp;D: FYs 2019–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2019	2020	2021										
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec	
U. New Haven	340	485	238	81	0	0	0	12	0	69	0	0		
U. Wisconsin-Platteville	342	68 i	67 i	80 i	0 i	0 i	0 i	3 i	9 i	3 i	51 i	0 i	14 i	
California State U., Channel Islands	343	0	0	79	0	0	0	0	0	0	79	0	0	
Liberty U.	344	0	442	75	0	0	0	0	0	0	75	0	0	
Alabama State U.	345	0	533	73	0	0	0	0	0	0	0	0	73	
U. Wisconsin-Oshkosh	345	74 i	74 i	73	0	0	0	0	0	0	0	0	73	
C. Charleston	347	0	67	72	0	0	72	0	0	0	0	0	0	
Central Connecticut State U.	348	87	94	71	70	0	0	1	0	0	0	0	0	
Oregon Institute of Technology	348	272 i	203	71 i	0 i	0 i	0 i	3 i	8 i	3 i	45 i	0 i	12 i	
Coastal Carolina U.	350	0	0	68	0	68	0	0	0	0	0	0	0	
Manhattan C.	350	167	170	68	0	0	59	9	0	0	0	0	0	
Suffolk U.	352	ne	76	66	66	0	0	0	0	0	0	0	0	
Clafin U.	353	144	170	65	0	1	0	0	0	0	0	64	0	
Texas A&M International U.	353	3	28	65	0	0	0	0	0	0	0	0	65	
U. Detroit Mercy	355	59	75	64	0	0	0	0	64	0	0	0	0	
Xavier U. Louisiana	356	376	65	57	0	0	0	0	0	0	0	0	57	
Eastern Kentucky U.	357	0	52	56	0	0	0	0	0	0	0	0	56	
Thomas Jefferson U.	358	0	59	55	0	0	0	0	0	0	0	0	55	
James Madison U.	359	181	186	54	0	0	0	0	10	30	0	0	14	
Colorado State U., Pueblo	360	51	47	51	0	0	0	0	0	0	0	0	51	
Andrews U.	361	41	37	50	0	0	0	0	0	0	0	0	50	
Swarthmore C.	361	55	0	50	0	0	0	50	0	0	0	0	0	
Abilene Christian U.	363	ne	ne	45	45	0	0	0	0	0	0	0	0	
Central Washington U.	363	4	34	45	0	0	0	0	0	45	0	0	0	
Bowling Green State U.	365	0	0	35	0	0	0	0	0	0	0	0	35	
Oklahoma State U., Center for Health Sciences	366	54	46	32	0	32	0	0	0	0	0	0	0	
U. Southern Maine	366	0	0	32	32	0	0	0	0	0	0	0	0	
U. Wisconsin-Superior	366	4	9	32	7	0	0	0	0	0	0	0	25	
Dordt U.	369	ne	ne	29	0	0	0	0	0	0	0	0	29	
Texas Southern U.	370	130	76	27	0	0	0	0	0	0	0	0	27	
Calvin U.	371	21	20 i	21 i	0 i	0 i	0 i	0 i	21 i	0 i	0 i	0 i	0 i	

TABLE 57

## Federally financed higher education R&amp;D expenditures in engineering subfields, ranked by all FY 2021 engineering R&amp;D: FYs 2019–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2019	2020	2021										
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec	
U. Wisconsin-River Falls	372	ne	65	18	0	0	0	0	0	0	0	0	0	18
Providence C.	373	40	0	17	0	0	0	0	0	0	0	17	0	0
Roger Williams U.	373	0	0	17	0	0	0	0	0	0	0	0	0	17
Albany State U.	375	16	3	14	14	0	0	0	0	0	0	0	0	0
Elon U.	376	68	25	13	0	13	0	0	0	0	0	0	0	0
Hawaii Pacific U.	376	10	13	13	13	0	0	0	0	0	0	0	0	0
Clark Atlanta U.	378	44	0	11	0	0	0	0	0	0	0	0	0	11
Seattle U.	379	72	10	10	0	0	0	0	0	0	0	0	0	10
SUNY, Oswego	380	81	13	9	0	0	0	0	0	9	0	0	0	0
Chapman U.	381	0	43	8	0	0	0	0	0	0	0	0	0	8
Southeastern Louisiana U.	381	0	3	8	0	0	0	0	0	0	8	0	0	0
Texas Christian U.	381	0	8	8	8	0	0	0	0	0	0	0	0	0
Jacksonville State U.	384	22	11	6	0	0	0	0	0	0	0	0	0	6
Montclair State U.	385	0	0	5	5	0	0	0	0	0	0	0	0	0
Kettering U.	386	184	114	3	0	0	0	0	0	0	0	3	0	0
Fairfield U.	387	0	0	2	0	0	0	0	0	1	0	1	0	0
CUNY, York C.	388	89	0	1	0	1	0	0	0	0	0	0	0	0
Doane U.	388	0	1	1	0	1	0	0	0	0	0	0	0	0
Trinity C., Hartford	388	19	13	1	0	0	0	0	0	0	0	0	0	1
U. Central Oklahoma	388	0	1	1	0	0	1	0	0	0	0	0	0	0
All other surveyed institutions	-	9,816	6,265	0	0	0	0	0	0	0	0	0	0	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

nec = not elsewhere classified.

<sup>a</sup> Johns Hopkins University includes the Applied Physics Laboratory, with \$1,088,522 thousand in federally financed R&D expenditures in engineering in FY 2021.

<sup>b</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

<sup>c</sup> The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

<sup>d</sup> The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

<sup>e</sup> The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

**Note(s):**

Institutions reporting zero expenditures in ranked total for FY 2021 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 58

**Higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2021 non-S&E fields: FYs 2019–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2019	2020	2021								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
All institutions	-	4,854,301	5,023,112	5,113,430	934,020	186,003	1,616,705	556,694	282,662	319,273	179,563	1,038,510
U. Pennsylvania	1	137,448	146,396	139,396	84,856	7,313	14,518	7,361	11,239	0	3,076	11,033
U. Michigan, Ann Arbor	2	104,485	100,931	118,228	16,156	1,716	12,371	23,442	6,694	7,210	3,115	47,524
Harvard U.	3	110,578	123,639	109,083	32,862	2,769	43,542	9,961	18,388	0	1,561	0
U. Wisconsin-Madison	4	88,107	91,878	85,191	11,664	5,267	28,245	14,791	3,389	745	2,087	19,003
Arizona State U.	5	67,049	78,430	81,652	22,167	4,074	33,394	6,877	4,510	6,789	3,841	0
U. Kansas	6	70,001	76,326	80,837	1,015	866	62,676	2,513	18	12,905	112	732
Florida State U.	7	71,549	80,379	77,689	11,049	2,065	36,429	10,527	2,914	7,292	5,020	2,393
New York U.	8	89,471	89,103	76,810	5,973	0	21,308	12,109	23,641	5,391	778	7,610
U. Washington, Seattle	9	77,934	85,569	73,658	100	11,124	35,093	3,206	870	14,831	530	7,904
Virginia Commonwealth U.	10	24,766	28,285	72,243	0	17	23,357	18,381	0	1,596	11,962	16,930
Syracuse U.	11	70,687	71,962	72,037	23,736	3,886	6,477	9,863	5,502	974	4,817	16,782
Georgia State U.	12	69,347	76,064	71,402	14,424	9,375	33,070	569	4,199	7,481	2,284	0
U. Texas, Austin	13	76,182	70,284	70,185	4,969	8,910	16,080	6,706	1,092	11,835	168	20,425
U. South Florida <sup>a</sup>	14	60,357	46,005	65,052	11,211	2,574	36,128	6,101	0	1,181	3,505	4,352
U. Georgia	15	62,627	63,130	64,523	22,849	4,086	9,368	8,725	4,597	2,017	5,609	7,272
U. Virginia, Charlottesville	16	66,759	67,324	59,610	6,002	0	31,557	5,259	1,418	0	360	15,014
Ohio State U.	17	52,848	54,061	59,506	4,522	443	21,418	2,350	721	7,539	984	21,529
U. California, Los Angeles	18	56,841	54,234	58,429	14,856	4,208	29,044	5,471	2,743	0	1,994	113
Purdue U., West Lafayette	19	65,516	48,429	55,952	10,962	1,065	8,979	1,874	0	0	39	33,033
Columbia U. in the City of New York	20	37,919	51,003	55,440	2,539	2,146	5,232	6,692	6,894	29,003	120	2,814
U. Maryland <sup>b</sup>	21	49,324	55,151	54,635	739	231	6,468	4,417	4,165	22,506	311	15,798
Clemson U.	22	53,533	54,255	53,989	1,708	139	3,649	346	0	0	16	48,131
Massachusetts Institute of Technology	23	69,387	61,915	52,737	2,324	129	35,776	3,823	175	182	613	9,715
U. California, Berkeley	24	51,347	43,697	52,025	17,030	5,223	9,931	3,266	16,105	0	470	0
Vanderbilt U. and Vanderbilt U. Medical Center	25	46,559	50,086	50,702	45	0	47,108	1,686	354	0	1	1,508
U. Texas, San Antonio	26	8,607	46,980	47,330	7,414	1,086	5,615	3,465	0	1,331	786	27,633
U. South Carolina, Columbia	27	69,507	31,555	46,932	12,546	109	5,275	6,482	584	5,480	3,264	13,192
Oklahoma State U., Stillwater	28	34,255	33,474	46,863	17,208	1,846	14,570	4,732	0	0	1,160	7,347

TABLE 58

**Higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2021 non-S&E fields: FYs 2019–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2019	2020	2021								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
Texas Tech U.	29	46,606	52,481	46,832	14,010	3,300	17,004	4,161	1,689	0	3,350	3,318
U. Oklahoma, Norman and Health Science Center	30	19,304	24,585	45,990	11,021	1,242	17,156	395	49	1,076	702	14,349
U. North Carolina, Chapel Hill	31	40,119	43,949	45,359	1,919	1,600	12,734	3,055	351	15,476	1,336	8,888
Stanford U.	32	45,427	44,141	44,474	384	1,595	40,020	351	1,602	0	163	359
U. Florida	33	47,868	52,546	40,461	3,489	3,384	19,998	4,203	142	2	1,832	7,411
U. California, San Diego	34	9,578	8,387	40,402	576	406	6,065	1,920	0	0	1,668	29,767
Cornell U.	35	40,724	42,944	40,205	3,961	5,709	218	1,626	612	0	2,830	25,249
U. Southern California	36	40,541	41,691	40,040	1,665	8,701	9,202	3,022	919	9,814	2,357	4,360
Texas A&M U., College Station and Health Science Center	37	40,781	40,859	39,523	9,688	403	24,044	1,062	756	431	114	3,025
U. Minnesota, Twin Cities	38	42,900	43,068	38,218	17,600	463	10,490	3,074	2,264	1,204	172	2,951
Michigan State U.	39	43,690	38,813	37,274	6,161	3,290	13,528	3,312	0	1,539	303	9,141
Dartmouth C. and Dartmouth Hitchcock Medical Center	40	38,177	40,798	37,247	15,555	0	80	16,847	0	0	1,120	3,645
Auburn U., Auburn	41	31,768	33,778	36,980	15,167	992	3,968	6,812	0	423	1	9,617
U. Central Florida	42	39,212	34,995	36,435	8,799	870	15,735	1,802	234	1,343	1,593	6,059
American U.	43	31,522	34,334	36,404	5,834	6,415	1,637	2,573	11,579	0	748	7,618
U. California, Irvine	44	26,186	34,144	36,272	4,428	1	24,032	6,392	878	0	540	1
Indiana U., Bloomington	45	37,708	34,734	36,185	5,212	1,325	4,206	2,044	755	0	3,528	19,115
U. Illinois, Urbana-Champaign	46	36,643	30,615	35,349	2,368	226	5,172	3,719	1,418	7,957	1,173	13,316
Pennsylvania State U., University Park and Hershey Medical Center	47	25,648	21,466	34,537	8,760	1,561	16,457	5,333	359	1,012	1,055	0
U. Nebraska, Lincoln	48	32,276	35,528	34,340	10,810	1,952	3,905	6,545	2,718	0	2,464	5,946
U. Missouri, Columbia	49	21,920	28,274	34,279	825	3,556	19,809	676	155	839	204	8,215
Washington State U.	50	42,688	40,370	33,017	7,632	2,043	17,427	1,009	121	152	117	4,516
U. Louisiana, Lafayette	51	12,586	25,845	32,651	9,662	1,180	7,713	8,951	2	0	4,370	773
Texas State U.	52	29,114	31,472	31,997	724	0	6,766	538	21,622	0	127	2,220
U. Iowa	53	24,544	27,790	31,735	6,482	655	12,265	4,320	656	1,007	337	6,013
Georgetown U.	54	30,064	33,155	30,603	10,351	274	1,041	2,221	14,906	0	0	1,810



TABLE 58

## Higher education R&amp;D expenditures in non-science and engineering fields, ranked by all FY 2021 non-S&amp;E fields: FYs 2019–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2019	2020	2021								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
U. Oregon	55	28,433	25,661	30,203	2,854	1,549	13,391	772	1,250	0	248	10,139
Florida International U.	56	34,110	26,584	30,202	8,537	1,100	10,578	5,229	1,241	130	1,751	1,636
U. Alabama, Tuscaloosa	57	15,285	22,940	29,799	7,702	1,117	8,337	3,783	2,333	4,084	1,309	1,134
U. Tennessee, Knoxville <sup>c</sup>	58	25,967	28,093	28,899	9,470	2,466	2,905	5,922	2,832	1,736	1,994	1,574
U. Colorado Boulder	59	27,749	29,125	28,679	1,704	296	24,388	889	1,189	0	0	213
Rutgers, State U. New Jersey, New Brunswick	60	36,055	26,421	28,675	2,405	1,411	5,909	2,217	0	2,076	56	14,601
U. Arizona	61	18,980	17,742	28,655	7,943	123	5,944	4,603	3,529	0	5,041	1,472
Washington U., Saint Louis	62	20,610	25,534	28,558	79	1	305	359	14	27,800	0	0
Georgia Institute of Technology	63	29,091	31,180	28,320	1,226	824	10,757	573	0	0	1,205	13,735
U. Utah	64	52,419	29,823	27,419	2,296	2,628	2,609	308	48	2,805	1,568	15,157
U. Nevada, Las Vegas	65	25,668	28,266	26,894	6,388	907	4,818	3,722	3,143	377	3,111	4,428
Boston U.	66	25,392	29,183	26,605	6,056	559	8,378	3,697	4,204	3,456	80	175
U. Massachusetts, Boston	67	23,020	27,392	26,602	670	10	24,425	1,005	0	168	256	68
U. Notre Dame	68	28,384	26,720	25,936	4,604	0	56	4,403	215	0	266	16,392
U. West Florida	69	26,382	26,275	25,768	22,012	64	2,755	2	25	142	6	762
Iowa State U.	70	15,976	56,769	25,604	9,087	918	3,024	6,993	0	0	1,138	4,444
Northwestern U.	71	29,462	26,992	25,077	10,181	3,019	7,353	2,970	1,108	0	446	0
U. Houston	72	26,489	25,846	24,693	1,459	172	5,093	1,546	943	3,885	109	11,486
U. North Texas, Denton	73	24,168	26,475	24,514	8,973	885	3,972	3,519	348	165	5,809	843
New Jersey Institute of Technology	74	24,431	16,812	23,397	1,966	0	12,540	828	0	0	0	8,063
U. Texas, El Paso	75	14,604	21,191	22,518	4,515	1,568	5,323	3,658	0	1,212	1,874	4,368
U. Arkansas, Fayetteville	76	31,265	24,604	22,171	3,078	84	14,952	406	1,545	278	58	1,770
San Diego State U.	77	18,231	18,845	21,399	5,823	1,250	4,502	5,069	0	1,578	1,314	1,863
George Mason U.	78	22,214	22,083	21,002	1,079	2,496	4,500	1,215	10,642	63	161	846
U. Cincinnati	79	16,399	18,886	20,882	2,523	42	6,706	2,985	43	0	114	8,469
U. Texas, Arlington	80	23,124	26,776	20,484	3,531	22	1,171	725	0	6,150	272	8,613
Temple U.	81	21,084	25,449	19,778	2,271	775	7,950	3,682	2,401	744	708	1,247
Boston C.	82	17,188	19,895	19,430	89	10	11,664	564	586	5,977	66	474
Montana State U., Bozeman	83	14,452	18,842	18,838	1,826	143	3,136	1,686	0	0	1,199	10,848

TABLE 58

## Higher education R&amp;D expenditures in non-science and engineering fields, ranked by all FY 2021 non-S&amp;E fields: FYs 2019–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2019	2020	2021								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
SUNY, U. Buffalo	84	19,538	20,398	18,083	2,475	378	13,691	587	588	67	7	290
U. North Carolina, Greensboro	85	9,825	13,602	18,041	87	117	12,899	421	0	1,346	435	2,736
North Carolina State U.	86	17,976	18,201	17,811	198	0	11,833	5,780	0	0	0	0
U. Illinois, Chicago	87	17,540	16,086	17,681	377	207	5,669	5,307	7	2,448	389	3,277
George Washington U.	88	20,601	20,624	17,607	4,634	4	6,985	1,052	735	0	74	4,123
Wichita State U.	89	15,177	14,146	17,381	654	11	315	377	68	4	0	15,952
U. Denver	90	14,909	18,737	17,378	95	77	7,217	0	234	9,755	0	0
Yale U.	91	15,669	14,439	17,371	3,663	0	3,693	4,329	1,046	0	743	3,897
Mississippi State U.	92	8,852	16,118	17,231	7,804	465	4,601	1,729	93	29	908	1,602
U. Memphis	93	11,475	15,270	16,971	4,923	380	3,656	1,929	1,066	1,224	1,694	2,099
U. Nevada, Reno	94	15,421	15,463	16,820	3,570	22	4,442	1,795	3,808	906	337	1,940
Brandeis U.	95	4,087	13,443	16,617	216	0	237	1,339	0	0	2,408	12,417
Illinois State U.	96	20,498	24,411	16,488	178	0	14,417	20	0	65	76	1,732
U. California, Santa Barbara	97	13,681	12,911	16,161	11,467	370	2,718	1,513	0	0	91	2
California Institute of Technology	98	24,373	30,954	16,133	0	179	0	7,641	0	0	0	8,313
Southern Methodist U.	99	15,059	16,199	15,962	3,684	0	7,241	847	2,579	0	1,199	412
Carnegie Mellon U.	100	13,364	13,865	15,836	8,363	0	34	4,782	0	0	2,562	95
Duke U.	101	13,589	16,429	15,403	11,834	0	61	1,503	705	0	211	1,089
Colorado State U., Fort Collins	102	16,225	23,258	15,066	39	170	732	2,466	642	47	399	10,571
Princeton U.	103	15,039	14,088	14,796	0	103	1,381	8,403	0	8	2,955	1,946
U. New Hampshire	104	11,354	11,057	14,573	2,191	634	5,061	3,875	688	1,347	459	318
Kent State U.	105	14,321	16,378	14,368	4,320	1,374	4,182	2,033	0	6	926	1,527
SUNY, U. Albany	106	19,918	17,604	14,148	3,129	459	4,248	2,915	0	1,772	592	1,033
SUNY, Binghamton U.	107	10,851	11,950	14,075	1,562	85	3,487	4,806	0	374	268	3,493
North Dakota State U.	108	6,658	5,778	14,067	11,450	448	392	952	0	0	376	449
Kansas State U.	109	16,378	14,161	13,647	1,954	322	3,244	1,658	0	0	1,286	5,183
Tulane U.	110	14,489	13,706	13,338	284	151	0	1,323	4,835	0	227	6,518
Louisiana State U., Baton Rouge	111	9,294	8,922	13,166	1,656	984	857	438	867	583	137	7,644
U. Vermont	112	186	12,319	13,013	3,234	342	2,417	5,442	0	242	1,336	0

TABLE 58

**Higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2021 non-S&E fields: FYs 2019–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2019	2020	2021								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
Wayne State U.	113	9,145	13,506	12,825	187	18	3,590	274	175	6,420	27	2,134
U. Massachusetts, Amherst	114	19,292	14,391	12,637	1,463	223	4,014	1,624	39	0	348	4,926
U. Louisville	115	11,740	13,949	12,590	2,464	455	3,620	726	742	3,588	750	245
Northeastern U.	116	9,513	10,266	12,311	1,211	830	3,343	276	2,731	0	300	3,620
Brown U.	117	11,071	9,256	12,193	16	0	5,091	2,722	10	0	166	4,188
U. California, Davis	118	13,098	12,019	12,023	221	283	6,543	929	869	0	3,147	31
Georgia Southern U.	119	1,532	2,117	11,909	3,816	284	3,056	2,701	102	0	1,477	473
U. Baltimore	120	8,977	11,598	11,757	40	0	184	0	1,087	0	0	10,446
U. Mississippi	121	21,334	6,988	11,646	1,392	52	1,080	1,826	2,238	58	228	4,772
San Jose State U.	122	4,491	6,827	11,569	7,233	262	889	1,219	0	322	799	845
Fordham U.	123	13,664	14,984	11,252	3,039	286	729	2,238	2,833	790	0	1,337
Florida A&M U.	124	5,865	7,125	11,179	716	0	1,289	2	0	0	0	9,172
William & Mary	125	9,148	10,906	10,738	1,587	0	6,993	904	994	0	93	167
U. Pittsburgh, Pittsburgh	126	12,205	12,685	10,594	453	4	5,690	266	153	1,723	1	2,304
U. North Dakota	127	9,995	9,616	10,565	1,070	304	3,015	1,676	1,955	166	808	1,571
Virginia Polytechnic Institute and State U.	128	9,815	10,169	10,563	3,748	445	1,992	534	0	72	413	3,359
U. Kentucky	129	12,197	11,543	10,441	3,829	115	684	647	240	749	578	3,599
U. North Florida	130	6,902	8,083	10,424	4,459	16	5,851	45	0	0	36	17
U. Maine	131	8,292	9,184	10,082	1,570	1,042	1,849	2,305	0	596	675	2,045
Emory U.	132	21,085	28,099	9,982	559	77	1,600	2,435	481	112	1,835	2,883
CUNY, John Jay C. of Criminal Justice	133	9,309	9,382	9,883	0	0	256	27	9,341	0	0	259
U. Texas, Dallas	134	13,101	12,661	9,866	7,575	0	693	1,598	0	0	0	0
U. Texas Rio Grande Valley	135	9,302	9,092	9,737	1,950	361	1,510	778	0	338	1,229	3,571
East Carolina U.	136	7,999	10,697	9,609	2,338	0	4,633	153	0	242	3	2,240
Rhode Island C.	137	8,671	8,656	9,361	1,106	0	7,204	2	0	1,046	3	0
U. Montana, Missoula	138	8,419	8,714	9,277	897	189	2,566	1,211	745	3,653	0	16
Chapman U.	139	7,094	12,709	9,226	672	819	1,376	36	862	0	18	5,443
U. Puerto Rico, Rio Piedras	140	6,069	5,007	9,099	135	18	312	160	3	321	7	8,143
U. Rhode Island	141	7,731	7,908	9,030	2,271	481	1,287	609	13	3	0	4,366
Catholic U. of America	142	1,082	1,122	8,991	4,170	0	0	2,300	108	70	0	2,343

TABLE 58

## Higher education R&amp;D expenditures in non-science and engineering fields, ranked by all FY 2021 non-S&amp;E fields: FYs 2019–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2019	2020	2021								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
West Virginia U.	143	8,937	8,103	8,956	2,344	185	2,178	308	410	9	51	3,471
California State U., East Bay	144	ne	3,557	8,817	1,723	137	6,733	71	2	37	0	114
Drexel U.	145	8,574	8,331	8,650	30	2	1,106	1,821	1	0	244	5,446
U. Chicago	146	10,908	10,487	8,646	421	0	3,595	557	14	3,766	0	293
Rensselaer Polytechnic Institute	147	4,413	8,367	8,476	2,302	103	0	0	0	0	959	5,112
Middle Tennessee State U.	148	3,199	3,917	8,291	706	730	670	4,198	0	34	1,266	687
Portland State U.	149	11,319	10,013	8,215	31	59	2,790	280	0	2,115	14	2,926
U. Alabama, Huntsville	150	4,920	7,326	7,902	2,530	126	4,231	559	0	0	405	51
U. Alabama, Birmingham	151	12,502	9,681	7,879	209	0	1,364	0	0	111	0	6,195
Marquette U.	152	8,921	7,984	7,718	854	959	105	1,145	921	0	0	3,734
Western Michigan U. and Homer Stryker M.D. School of Medicine	153	9,911	9,191	7,642	52	0	7,334	29	0	158	7	62
Rochester Institute of Technology	154	8,226	8,205	7,530	26	0	5,413	113	0	0	1,358	620
U. Massachusetts, Lowell	155	7,226	6,870	7,397	3,276	0	1,921	1,673	0	0	471	56
Loyola Marymount U.	156	2,950	2,704	7,383	613	50	2,379	1,057	1,322	0	49	1,913
U. Southern Mississippi	157	11,215	7,826	6,970	44	1	149	697	0	19	1	6,059
Sam Houston State U.	158	3,265	6,679	6,893	44	1	5,854	126	0	0	27	841
U. Delaware	159	5,335	5,928	6,877	914	1,001	4,797	143	0	0	22	0
Naval Postgraduate School	160	6,801	4,627	6,861	2,863	363	1,314	130	15	0	0	2,176
Baylor U.	161	7,013	8,452	6,722	958	563	462	3,004	0	1,221	122	392
Louisiana Tech U.	162	6,383	6,214	6,637	4,425	307	423	592	0	0	572	318
Rice U.	163	5,438	6,468	6,601	1,471	0	3,336	1,351	0	0	83	360
Indiana U.-Purdue U., Indianapolis	164	9,485	7,301	6,475	1,229	22	1,472	939	1	1,174	417	1,221
Johns Hopkins U. <sup>d</sup>	165	4,156	5,825	6,448	0	0	0	6,255	0	0	0	193
U. Connecticut	166	12,730	9,734	6,239	870	200	1,155	433	111	1,521	587	1,362
Bowling Green State U.	167	6,914	7,030	6,202	145	11	4,149	495	0	0	434	968
U. California, Riverside	168	5,509	6,973	6,186	2	0	2,695	1,295	0	0	32	2,162
U. California, Merced	169	2,279	2,545	6,097	536	3	3,691	588	0	0	442	837
U. Wisconsin-Milwaukee	170	2,823	6,287	6,083	247	389	638	2,674	0	504	119	1,512

TABLE 58

## Higher education R&amp;D expenditures in non-science and engineering fields, ranked by all FY 2021 non-S&amp;E fields: FYs 2019–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2019	2020	2021								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
U. Washington, Bothell	171	5,594	5,847	6,065	167	0	5,858	3	0	0	0	37
James Madison U.	172	3,758	4,078	6,000	1,757	639	1,098	635	0	189	673	1,009
Montclair State U.	173	7,628	7,032	5,920	942	363	2,696	709	76	380	464	290
Northern Illinois U.	174	8,233	8,745	5,904	489	0	332	18	70	0	205	4,790
Oregon State U.	175	5,895	5,959	5,737	0	0	98	18	0	0	0	5,621
Salisbury U.	176	4,498	5,064	5,596	740	81	2,354	101	0	1,544	14	762
Ohio U.	177	8,154	9,545	5,565	1,942	153	1,422	784	0	64	613	587
North Carolina Agricultural and Technical State U.	178	4,042	4,769	5,562	1,589	0	860	0	0	0	0	3,113
Villanova U.	179	4,612	5,091	5,526	1,406	67	364	2,584	419	0	39	647
Cleveland State U.	180	6,223	6,097	5,477	1,925	0	2,037	0	812	36	0	667
U. New Mexico	181	6,386	6,126	5,184	586	784	2,045	131	752	379	2	505
Wake Forest U.	182	2,439	3,372	5,051	1	63	1,400	3,057	186	0	341	3
High Tech High Graduate School of Ed.	183	ne	3,304	5,032	0	0	5,032	0	0	0	0	0
U. Colorado Denver <sup>e</sup>	184	na	na	4,972	333	35	2,579	111	0	59	94	1,761
Colorado C.	185	1,180	1,463	4,781	2,809	0	177	189	0	0	1,246	360
Naval War C.	186	4,381	5,220	4,748	0	0	0	0	0	0	0	4,748
St. Edward's U.	187	3,837	4,242	4,738	35	297	4,228	35	25	30	33	55
Kennesaw State U.	188	2,530	3,399	4,719	2,276	681	625	449	26	355	201	106
U. South Dakota	189	3,572	4,513	4,646	945	267	955	621	496	217	424	721
U. Central Oklahoma	190	4,253	4,366	4,508	1	0	4,361	0	0	0	0	146
Southern Illinois U., Edwardsville	191	2,575	4,013	4,441	0	0	0	2,603	0	0	660	1,178
U. North Carolina, Charlotte	192	4,490	4,869	4,419	840	9	1,640	452	0	230	71	1,177
Long Island U.	193	255	3,849	4,407	0	602	773	2,090	0	0	762	180
Seton Hall U.	194	6,246	5,179	4,317	0	0	4,317	0	0	0	0	0
Bryn Mawr C.	195	4,875	6,067	4,184	0	0	171	3,273	0	626	114	0
Brigham Young U., Provo	196	6,307	4,759	4,163	1,111	9	730	1,617	100	0	0	596
New School	197	4,242	3,931	4,119	129	357	501	781	0	933	262	1,156
SUNY, Stony Brook U.	198	3,765	3,267	4,113	51	563	190	2,073	0	719	376	141
Delaware State U.	199	505	3,478	3,999	0	0	3,709	0	0	0	0	290

TABLE 58

## Higher education R&amp;D expenditures in non-science and engineering fields, ranked by all FY 2021 non-S&amp;E fields: FYs 2019–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2019	2020	2021								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
Claremont Graduate U.	200	6,081	5,038	3,954	1,537	0	2,417	0	0	0	0	0
Tufts U.	201	16,726	6,958	3,927	31	0	1,304	779	63	67	94	1,589
William Paterson U.	202	5,698	4,631	3,867	903	200	1,336	959	50	38	353	28
Old Dominion U.	203	7,567	6,842	3,854	310	0	3,211	67	0	0	0	266
U. San Diego	204	2,294	4,707	3,806	86	0	1,836	918	530	0	42	394
U. California, Santa Cruz	205	4,503	3,629	3,776	0	179	254	2,378	0	0	965	0
U. Oklahoma, Tulsa	206	2,370	2,892	3,753	0	0	2,930	0	0	822	0	1
California State U., Sacramento	207	3,265	3,514	3,627	721	0	2,129	258	0	198	79	242
California State U., San Bernardino	208	3,643	3,404	3,608	9	2	3,456	0	0	5	4	132
Rutgers, State U. New Jersey, Newark	209	5,370	4,888	3,602	1,732	0	118	77	781	3	33	858
U. New Orleans	210	2,615	2,908	3,581	179	0	382	1,082	0	0	480	1,458
Saint Louis U.	211	4,196	2,670	3,535	133	4	1,118	845	141	226	26	1,042
Florida Atlantic U.	212	4,686	3,843	3,491	1,265	0	544	1	0	90	0	1,591
Texas A&M U.-Corpus Christi	213	3,648	4,038	3,430	90	1	1,045	58	1	0	22	2,213
California Polytechnic State U., San Luis Obispo	214	295	2,926	3,412	2,755	70	367	210	0	0	0	10
U. Idaho	215	5,756	3,626	3,259	32	0	2,006	44	33	0	14	1,130
Michigan Technological U.	216	3,590	3,196	3,208	1,494	0	370	1,061	0	0	283	0
U. Missouri, Saint Louis	217	1,567	2,676	3,148	236	40	1,640	542	0	240	1	449
Kean U.	218	ne	1,125	3,145	10	14	182	61	197	0	0	2,681
Florida Gulf Coast U.	219	4,437	3,217	3,140	220	0	2,819	46	35	3	0	17
Utah State U.	220	3,441	3,362	3,084	1	0	1,310	455	0	0	2	1,316
U. Hawaii, Manoa	221	2,712	2,609	3,076	198	181	1,549	54	15	628	0	451
Tarleton State U.	222	1,605	2,637	3,041	804	179	1,340	291	424	0	0	3
CUNY, Hunter C.	223	4,705	4,394	2,962	0	8	1,670	100	0	1,157	27	0
Duquesne U.	224	3,771	3,634	2,932	1,012	0	693	212	399	0	3	613
Indiana U. Pennsylvania	225	4,482	2,863	2,931	1,334	186	208	1,051	0	0	7	145
Boise State U.	226	4,296	4,388	2,898	689	51	1,502	239	0	62	272	83
San Francisco State U.	227	2,221	2,651	2,886	1,039	347	877	79	84	0	30	430

TABLE 58

**Higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2021 non-S&E fields: FYs 2019–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2019	2020	2021									
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other	
Southern Connecticut State U.	228	1,871	1,887	2,883	980	0	361	469	0	83	216	774	
Azusa Pacific U.	229	2,867	3,459	2,852	260	12	540	1,746	0	169	104	21	
Missouri U. of Science and Technology	230	286	188	2,768	78	7	0	34	0	0	0	2,649	
U. Maryland, Baltimore County	231	3,714	4,198	2,760	11	0	1,955	100	0	27	220	447	
Prairie View A&M U.	232	2,480	2,620	2,715	6	0	333	143	2,136	0	0	97	
California State U., Fullerton	233	1,156	472	2,643	834	145	127	372	0	12	151	1,002	
Ball State U.	234	5,120	2,658	2,564	601	0	287	165	579	147	0	785	
Pratt Institute	235	ne	ne	2,547	0	0	0	0	0	0	0	2,547	
Hofstra U.	236	491	468	2,438	580	116	378	827	217	0	296	24	
Wesleyan U.	237	2,244	2,329	2,413	0	934	784	544	0	0	142	9	
Western Washington U.	238	2,087	2,508	2,405	262	75	1,034	735	0	0	233	66	
Eastern Michigan U.	239	2,469	2,504	2,391	289	56	597	543	109	287	499	11	
Texas A&M U.-Kingsville	240	2,731	2,177	2,298	4	0	1,963	0	0	0	0	331	
North Carolina Central U.	241	2,875	2,134	2,265	41	0	2,050	0	57	117	0	0	
Texas Christian U.	242	2,261	1,736	2,261	26	0	2,045	40	0	150	0	0	
U. Rochester	243	1,685	1,437	2,197	106	0	1,249	96	0	0	455	291	
CUNY, City C.	244	1,433	1,457	2,183	0	0	212	26	5	0	36	1,904	
Lehigh U.	245	2,771	1,637	2,161	110	0	1,820	153	0	0	0	78	
U. Missouri, Kansas City	246	1,860	1,661	2,099	0	15	813	220	3	5	77	966	
Miami U.	247	3,100	2,681	2,093	696	132	428	153	0	72	43	569	
Stevens Institute of Technology	248	1,218	2,107	2,073	638	0	430	1,005	0	0	0	0	
Marshall U.	249	1,799	3,230	2,065	693	0	838	0	0	0	0	534	
West Chester U. Pennsylvania	250	2,990	3,552	2,056	457	8	424	122	0	134	90	821	
U. Central Arkansas	251	1,327	1,348	2,051	0	0	1,038	0	0	0	0	1,013	
U. Puerto Rico, Mayaguez	252	785	657	2,046	888	0	447	0	0	488	0	223	
U. Alaska, Fairbanks	253	2,150	1,935	2,034	157	0	1,294	366	0	0	0	217	
Grinnell C.	254	1,845	2,905	1,993	0	0	173	1,612	0	0	198	10	
Colorado School of Mines	255	3,087	3,754	1,979	66	0	47	15	0	0	0	1,851	

TABLE 58

## Higher education R&amp;D expenditures in non-science and engineering fields, ranked by all FY 2021 non-S&amp;E fields: FYs 2019–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2019	2020	2021									
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other	
U. Virginia's C. Wise	256	ne	ne	1,964	78	0	1	0	0	0	0	0	1,885
Case Western Reserve U.	257	3,142	2,053	1,935	542	0	1,231	120	42	0	0	0	0
U. Tennessee, Chattanooga	258	1,943	1,774	1,812	1,458	58	186	51	0	0	1	58	
Texas A&M U.-Commerce	259	975	1,622	1,796	196	15	188	50	0	14	0	1,333	
Morgan State U.	260	462	274	1,740	145	0	16	7	0	871	0	701	
Erikson Institute	261	2,279	1,992	1,723	0	0	1,723	0	0	0	0	0	
U. North Carolina, Asheville	262	2,376	1,857	1,695	60	0	675	754	0	123	0	83	
Loyola U., Chicago	263	2,013	1,155	1,694	3	0	352	27	22	881	0	409	
Fayetteville State U.	264	2,471	812	1,661	383	150	1,128	0	0	0	0	0	
California State U., Bakersfield	265	979	1,151	1,645	204	0	1,046	171	63	0	70	91	
U. North Carolina, Wilmington	266	1,476	1,539	1,605	643	0	698	47	0	0	0	217	
Creighton U.	267	1,761	i 1,440	i 1,604	i 378	i 62	i 392	i 221	i 174	i 91	i 51	i 235	
Lamar U.	268	1,652	1,988	1,580	422	0	587	48	0	17	7	499	
Northern Arizona U.	269	1,151	1,908	1,571	89	203	1,120	18	0	66	2	73	
Wellesley C.	270	3,734	3,131	1,551	0	0	1,077	87	0	0	25	362	
U. Toledo	271	2,351	2,257	1,540	76	16	764	5	0	290	19	370	
Saint Joseph's U.	272	1,163	1,402	1,524	661	19	770	51	0	0	23	0	
Franklin and Marshall C.	273	1,949	1,704	1,523	21	0	209	90	0	18	49	1,136	
La Sierra U.	274	1,368	1,467	1,511	274	0	930	137	0	0	0	170	
U. Dayton	275	1,419	1,502	1,487	116	23	825	11	0	21	36	455	
U. Nebraska, Omaha	276	2,527	3,256	1,452	67	0	550	8	0	0	7	820	
Worcester Polytechnic Institute	276	2,056	1,143	1,452	885	0	5	148	0	0	0	414	
Reed C.	278	0	1,493	1,450	i 0	i 0	i 0	i 962	i 0	i 0	i 197	i 291	
Suffolk U.	279	ne	1,261	1,408	715	0	138	0	316	0	0	239	
Texas A&M International U.	280	2,034	1,354	1,404	116	0	131	2	0	0	58	1,097	
Purdue U., Northwest	281	2,161	1,424	1,387	737	0	140	15	0	0	260	235	
DePaul U.	282	903	803	1,382	554	38	94	114	76	18	166	322	
Yeshiva U.	283	0	0	1,369	0	0	0	0	1,369	0	0	0	
California State U., Northridge	284	2,337	1,823	1,353	213	0	596	224	163	112	0	45	



TABLE 58

## Higher education R&amp;D expenditures in non-science and engineering fields, ranked by all FY 2021 non-S&amp;E fields: FYs 2019–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2019	2020	2021								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
Lewis and Clark C.	285	1,380	1,443	1,345	0	0	47	34	1,264	0	0	0
Williams C.	286	1,453	1,375 i	1,342 i	1 i	0 i	0 i	681 i	0 i	0 i	97 i	563 i
Virginia State U.	287	2,234	2,188	1,339	10	0	1,249	0	0	0	0	80
Central Michigan U.	288	1,495	1,398	1,336	502	47	88	112	0	0	5	582
Jackson State U.	289	103	102	1,335	28	0	897	102	0	308	0	0
U. Colorado Anschutz Medical Campus <sup>e</sup>	290	na	na	1,328	0	0	356	0	0	304	0	668
Johnson C. Smith U.	291	1,114	1,385	1,308 i	0 i	0 i	1,106 i	0 i	0 i	0 i	0 i	202 i
Pace U.	292	1,471	1,195	1,303	144	1	1,016	95	36	0	0	11
Babson C.	293	1,845 i	2,352 i	1,286 i	1,286 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Rutgers, State U. New Jersey, Camden	294	1,322	599	1,259	0	0	1	9	541	0	0	708
Clarkson U.	295	936	1,009	1,253	358	39	704	105	0	0	2	45
C. Charleston	296	2,404	1,586	1,252	179	52	376	138	0	0	93	414
Texas Southern U.	297	0	1,538	1,248	0	0	0	0	0	0	0	1,248
U. Texas of the Permian Basin	298	ne	1,166	1,236	74	0	122	274	0	0	0	766
Winston-Salem State U.	299	543	1,403	1,233	163	0	1,042	27	0	0	0	1
CUNY, Lehman C.	300	2,096	725	1,213	1	0	826	47	0	0	11	328
National Defense U.	301	2,076	2,000	1,200	0	0	1,200	0	0	0	0	0
St. Cloud State U.	301	1,840	2,016	1,200	141	0	988	12	0	3	25	31
Purdue U., Fort Wayne	303	1,196	884	1,178	197	0	94	91	0	0	65	731
Winthrop U.	304	1,043	1,017	1,145	0	0	1,136	1	0	2	6	0
CUNY, Queens C.	305	748	864	1,117	0	12	656	33	0	0	8	408
Elon U.	306	1,383	1,078	1,111	354	217	78	245	0	0	192	25
U. South Alabama	307	572	531	1,110	0	0	719	0	0	0	0	391
Texas Woman's U.	308	1,481	897	1,093	8	0	618	0	0	0	0	467
Lawrence Technological U.	309	377	646	1,091	795	0	0	3	0	0	0	293
Pepperdine U.	309	1,145	853	1,091	194	61	319	170	210	0	109	28
Western U. of Health Sciences	311	1,015	1,033	1,090	0	0	1,090	0	0	0	0	0
New Mexico State U.	312	1,424	1,458	1,060	16	38	723	9	7	75	25	167
East Tennessee State U.	313	294 i	307 i	1,053 i	157 i	64 i	65 i	0 i	0 i	0 i	0 i	767 i

TABLE 58

**Higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2021 non-S&E fields: FYs 2019–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2019	2020	2021								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
Seattle U.	313	1,095	1,152	1,053	10	0	894	10	69	10	0	60
U. of the District of Columbia	315	757	648	1,050	0	0	0	0	0	0	0	1,050
Southern U. and A&M C., Baton Rouge	316	779	617	1,044	0	0	321	723	0	0	0	0
Texas Tech U., Health Sciences Center	317	1,113	1,033	1,016	0	0	817	0	0	0	0	199
Willamette U.	318	1,058	881	1,007	31	0	461	96	301	0	31	87
California State U., San Marcos	319	1,149	1,332	993	30	0	398	0	0	0	40	525
U. Wyoming	320	425	1,323	972	0	0	43	0	0	104	0	825
Howard U.	321	936	856	970	0	163	213	0	0	594	0	0
Hamilton C.	322	1,209	1,084	966	0	0	214	247	0	0	328	177
Florida Institute of Technology	323	1,029	995	957	157	21	11	0	0	0	0	768
California State U., Fresno	324	358	509	929	166	0	499	0	121	0	0	143
Kettering U.	325	152	310	928	595	0	0	0	0	0	0	333
California State U., Long Beach	326	1,205	784	924	8	53	312	199	0	163	106	83
Pacific U.	327	2,146	1,302	923	8	0	595	289	0	0	31	0
CUNY, Graduate Center	328	1,236	1,174	913	0	0	161	0	0	0	20	732
West Texas A&M U.	329	416	732	906	0	0	123	0	0	0	0	783
Swarthmore C.	330	1,408	1,004	900	0	0	90	134	0	0	628	48
Grambling State U.	331	1,909	1,572	886	0	0	181	59	0	591	0	55
U. Maryland Center for Environmental Science	332	912	884	879	0	0	876	0	0	0	0	3
Appalachian State U.	333	208	753	859	128	0	563	51	6	86	12	13
Western Kentucky U.	334	1,409	1,219	852	41	61	366	268	0	97	7	12
U. Northern Colorado	335	1,414	1,376	850	58	5	733	0	0	0	0	54
U. Colorado Colorado Springs	336	1,280	1,172	843	569	0	83	0	0	0	0	191
U. Houston-Downtown	337	1,735	1,617	834	0	0	759	3	0	0	0	72
Colorado State U., Pueblo	338	1,099	1,167	831	0	0	0	0	0	0	0	831
U. North Georgia	339	1,517	1,542	819	0	2	693	124	0	0	0	0

TABLE 58

## Higher education R&amp;D expenditures in non-science and engineering fields, ranked by all FY 2021 non-S&amp;E fields: FYs 2019–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2019	2020	2021								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
Carleton C.	340	442	974	816	0	0	0	795	0	0	21	0
Texas Tech U., Health Sciences Center, El Paso	341	234	127	805	0	0	481	0	0	0	0	324
Sacred Heart U.	342	ne	ne	798	7	0	572	8	0	0	0	211
Dillard U.	343	42	36	795	0	0	666	129	0	0	0	0
Eastern Connecticut State U.	343	788	742	795	96	77	109	427	0	0	86	0
Hope C.	345	51	665	782	0	0	43	355	0	0	0	384
Embry-Riddle Aeronautical U.	346	171	350	776	183	0	54	0	0	0	0	539
Tennessee Technological U.	347	694	472	771	55	0	282	1	0	0	3	430
U. Tulsa	348	468	300	761	6	0	642	3	13	0	29	68
U. Massachusetts, Dartmouth	349	1,482	1,510	743	11	10	720	0	2	0	0	0
U. Alaska, Anchorage	350	1,069	590	742	247	0	386	23	0	0	0	86
Rhode Island School of Design	351	336	318	724	0	0	0	239	0	0	191	294
U. Miami	352	2,095	940	711	0	5	593	86	0	0	27	0
California State U., Dominguez Hills	353	394	255	705	42	26	553	54	0	0	24	6
Drake U.	354	380	ne	704	13	0	610	0	32	0	0	49
South Carolina State U.	355	649	673	697	128	0	569	0	0	0	0	0
Franklin W. Olin C. of Engineering	356	1,121	913	691	0	0	691	0	0	0	0	0
U. of Mary Washington	357	1,035	944	687	546	1	22	118	0	0	0	0
U. Massachusetts, central office	358	1,479	953	686	0	0	652	0	0	0	0	34
Stephen F. Austin State U.	359	438	1,216	684	0	0	283	29	0	196	25	151
Mills C.	360	1,413	1,412	683	0	0	683	0	0	0	0	0
U. of St. Thomas (MN)	361	475	632	675	0	0	154	0	123	0	0	398
Austin Peay State U.	362	1,116	859	657	0	0	28	0	0	0	536	93
U.S. Military Academy	363	4,333	601	656	0	0	0	111	133	0	0	412
Furman U.	364	0	22	655	5	0	0	10	0	0	0	640
Des Moines U.	365	311	626	654	0	0	654	0	0	0	0	0
Southeastern Louisiana U.	366	831	694	652	652	0	0	0	0	0	0	0



TABLE 58

## Higher education R&amp;D expenditures in non-science and engineering fields, ranked by all FY 2021 non-S&amp;E fields: FYs 2019–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2019	2020	2021									
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other	
Haverford C.	396	428	0	411	0	0	0	411	0	0	0	0	0
Amherst C.	397	945	915	410	0	0	0	238	0	0	0	172	0
Pennsylvania State U., Behrend	398	146	30	407	118	8	259	14	0	0	0	8	0
Wright State U.	398	429	851	407	186	0	60	0	1	87	0	0	73
Western Carolina U.	400	115	344	406	35	0	0	0	0	76	36	259	0
Elizabeth City State U.	401	ne	463	398	0	0	331	6	0	0	0	0	61
Spelman C.	402	747	614	396	0	0	0	396	0	0	0	0	0
Fairfield U.	403	575	526	392	217	19	17	124	0	7	7	1	0
South Dakota State U.	404	332	339	389	0	158	6	13	0	0	0	212	0
U. California, Office of the President	405	0	0	386	0	0	127	0	0	0	0	0	259
Roger Williams U.	406	393	246	384	0	0	173	0	151	0	0	0	60
Rowan U.	407	912	749	372	5	0	227	20	120	0	0	0	0
U. San Francisco	408	1,517	1,004	368	75	8	233	34	0	0	16	2	0
Indiana State U.	409	432	403	365	8	0	356	0	0	1	0	0	0
U. Nebraska, central administration	410	1,163	858	364	0	0	0	0	0	0	0	0	364
Saint John's U.	411	631	599	352	28	5	168	109	0	0	42	0	0
Santa Clara U.	411	99	113	352	107	37	16	0	114	0	0	78	0
Manhattan C.	413	221	243	342	162	0	180	0	0	0	0	0	0
Bucknell U.	414	1,564	406	340	61	0	2	151	0	0	18	108	0
CUNY, New York City C. of Technology	415	135	228	338	0	0	319	19	0	0	0	0	0
U. Minnesota, Morris	416	600	463	335	0	4	4	71	0	0	9	247	0
U. Nebraska, Kearney	417	283	116	334	14	251	15	0	0	1	18	35	0
Nova Southeastern U.	418	290	559	328	10	0	280	0	24	0	0	14	0
U. Illinois, Springfield	419	149	547	326	0	0	140	20	0	0	0	166	0
C. of Saint Benedict	420	614	582	322	27	4	154	98	0	0	39	0	0
U. Houston-Clear Lake	421	257	235	317	44	0	35	5	0	0	0	233	0
Claremont McKenna C.	422	291	443	311	0	0	0	311	0	0	0	0	0
Central Connecticut State U.	423	415	583	307	17	10	174	106	0	0	0	0	0
Trinity U.	423	551	638	307	37	13	15	161	0	0	76	5	0

TABLE 58

## Higher education R&amp;D expenditures in non-science and engineering fields, ranked by all FY 2021 non-S&amp;E fields: FYs 2019–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2019	2020	2021								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
Bowdoin C.	425	314	165	305	0	0	71	44	0	0	160	30
U. Michigan, Dearborn	426	721	636	298	188	0	16	19	0	0	0	75
SUNY, C. of Environmental Science and Forestry	427	158	296	295	168	0	0	0	0	119	0	8
Pennsylvania State U., Harrisburg	428	308	68	286	94	0	74	1	0	117	0	0
Christopher Newport U.	429	0	364	283	129	24	0	88	0	0	32	10
U. Michigan, Flint	430	914	493	278	0	0	46	11	0	9	2	210
Pomona C.	431	746	273	268	0	33	0	148	0	0	87	0
Albion C.	432	287	266	259	0	20	23	114	0	1	100	1
New Mexico Institute of Mining and Technology	433	93	324	258	103	0	155	0	0	0	0	0
Langston U.	434	393	455	255	0	0	185	0	22	0	0	48
C. Wooster	435	172	253	247	0	2	12	132	0	0	68	33
St. John's U., New York	436	43	352	244	0	1	57	129	19	0	0	38
Loma Linda U.	437	317	279	241	241	0	0	0	0	0	0	0
Northern Michigan U.	438	473	360	237	63	1	3	151	0	0	17	2
Doane U.	439	206	212	228	0	0	228	0	0	0	0	0
CUNY, Baruch C.	440	400	153	224	30	7	3	49	3	0	10	122
U. Wisconsin-Oshkosh	440	195	209	224	60	0	0	0	0	0	36	128
SUNY, Geneseo	442	181	114	223	18	9	6	25	0	0	6	159
U. North Carolina, general administration	443	0	10	219	18	0	22	0	0	0	0	179
Niagara U.	444	1,486	922	218	11	0	68	26	0	6	72	35
Liberty U.	445	351	727	215	0	0	0	0	0	0	0	215
Northland C.	445	ne	ne	215	50	0	116	49	0	0	0	0
Jacksonville State U.	447	2,262	1,186	208	0	0	208	0	0	0	0	0
Idaho State U.	448	412	246	207	27	0	103	22	0	0	1	54
California State U., Maritime Academy	449	0	0	196	0	0	0	0	0	0	0	196
U. Wisconsin-Platteville	450	255	261	194	53	0	108	27	0	0	6	0
Davidson C.	451	228	421	187	0	0	0	0	0	0	0	187
Abilene Christian U.	452	ne	ne	185	0	0	31	94	0	7	8	45

TABLE 58

## Higher education R&amp;D expenditures in non-science and engineering fields, ranked by all FY 2021 non-S&amp;E fields: FYs 2019–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2019	2020	2021								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
Indiana U., South Bend	453	ne	ne	184	15	0	21	0	0	0	47	101
Coastal Carolina U.	454	0	0	183	16	1	118	47	1	0	0	0
Albany State U.	455	162	330	182	0	0	182	0	0	0	0	0
Clark U.	456	767	482	181	0	0	116	0	0	0	38	27
Mount Holyoke C.	456	290	121	181	0	0	43	45	0	0	87	6
Clark Atlanta U.	458	540	193	180	0	0	0	0	0	31	0	149
Fisk U.	459	142	0	177	0	0	177	0	0	0	0	0
U. Richmond	459	472	396	177	75	18	0	35	0	0	49	0
U. Texas, Tyler	461	34	125	165	32	0	100	0	0	0	0	33
U. Wisconsin-River Falls	462	ne	395	162	0	0	0	0	0	0	0	162
Dakota State U.	463	4	0	161	0	0	41	25	0	0	0	95
Illinois Institute of Technology	464	114	119	156	0	0	130	0	0	0	0	26
Lafayette C.	464	453	205	156	0	0	0	92	0	0	41	23
U. Detroit Mercy	464	40	30	156	0	1	90	0	65	0	0	0
Troy U.	467	ne	103	154	0	1	148	0	0	0	5	0
U. Wisconsin-La Crosse	467	337	225	154	46	0	0	22	0	0	4	82
Macalester C.	469	226	190	147	0	0	0	147	0	0	0	0
U. Southern Maine	470	596	455	139	0	0	0	0	0	0	30	109
Xavier U. Louisiana	470	153	52	139	0	2	32	105	0	0	0	0
Western Illinois U.	472	66	164	138	0	0	132	0	0	6	0	0
Northern Kentucky U.	473	338	282	137	7	10	12	15	0	9	16	68
Minnesota State U., Mankato	474	727	415	136	3	0	38	0	0	1	0	94
CUNY, C. Staten Island	475	469	148	134	4	43	13	73	0	0	1	0
California State Polytechnic U., Pomona	476	776	245	133	0	0	0	0	0	0	0	133
Keck Graduate Institute	476	126	129	133	133	0	0	0	0	0	0	0
Mercyhurst U.	478	128	131	129	35	5	35	20	0	8	4	22
U. Wisconsin-Green Bay	479	147	133	127	24	5	44	14	0	8	0	32
West Virginia State U.	479	66	0	127	0	0	0	0	0	0	0	127
SUNY, Polytechnic Institute	481	101	132	124	0	0	0	124	0	0	0	0
U. Hawaii, Maui C.	482	ne	ne	110	0	0	110	0	0	0	0	0

TABLE 58

## Higher education R&amp;D expenditures in non-science and engineering fields, ranked by all FY 2021 non-S&amp;E fields: FYs 2019–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2019	2020	2021								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
Vassar C.	483	0	15	108	0	0	10	95	0	0	3	0
Florida Polytechnic U.	484	25	20	103	103	0	0	0	0	0	0	0
Mercer U.	485	91	161	94	22	0	70	2	0	0	0	0
Roseman U. of Health Sciences	486	0	0	92	0	0	0	0	0	0	0	92
Eastern Kentucky U.	487	150	98	89	3	0	0	0	0	0	0	86
St. Olaf C.	487	174	159	89	0	0	8	39	17	0	24	1
Murray State U.	489	34	26	87	81	0	0	1	0	0	0	5
U. of the Incarnate Word	489	372	61	87	20	0	67	0	0	0	0	0
C. New Jersey	491	ne	75	84	5	3	7	63	0	0	6	0
California State U., Channel Islands	492	55	98	79	0	0	14	4	0	0	7	54
Sonoma State U.	492	ne	86	79	0	5	43	25	0	0	5	1
U. Northern Iowa	492	27	100	79	0	0	48	23	0	0	1	7
Black Hills State U.	495	777	60	76	0	0	76	0	0	0	0	0
New York Institute of Technology	495	115	107	76	5	0	71	0	0	0	0	0
U. Wisconsin-Eau Claire	497	62	43	75	0	0	51	0	0	0	0	24
Oberlin C.	498	85	35	74	0	0	0	66	0	0	8	0
CUNY, York C.	499	47	43	73	0	0	2	11	0	5	0	55
Fort Hays State U.	500	266	220	71	9	0	26	0	14	0	0	22
U.S. Naval Academy	500	140	296	71	0	0	0	71	0	0	0	0
Skidmore C.	502	88	96	66	5	0	0	0	0	14	17	30
Augusta U.	503	106	75	65	0	2	32	0	0	0	4	27
Ithaca C.	504	ne	70	64	0	0	0	6	0	0	0	58
Occidental C.	504	0	0	64	0	0	64	0	0	0	0	0
U. Louisiana, Monroe	506	5	13	63	0	0	0	37	0	0	0	26
Biola U.	507	58	57	58	13	2	16	8	5	3	2	9
Hobart and William Smith Colleges	508	73	107	55	2	0	8	21	0	0	6	18
Trinity C., Hartford	508	279	119	55	0	0	0	44	0	0	9	2
U. New Haven	510	17	107	54	21	12	20	1	0	0	0	0
U. Ana G. Mendez, Gurabo	511	122	24	52	52	0	0	0	0	0	0	0



TABLE 58

## Higher education R&amp;D expenditures in non-science and engineering fields, ranked by all FY 2021 non-S&amp;E fields: FYs 2019–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2019	2020	2021								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
Calvin U.	512	56	53	51	0	0	0	48	0	3	0	0
SUNY, C. Plattsburgh	512	80	33	51	0	0	51	0	0	0	0	0
Wheaton C., Wheaton	512	110	24	51	0	0	6	45	0	0	0	0
U. South Carolina, Aiken	515	336	101	48	10	0	2	0	0	0	0	36
Arkansas State U., Jonesboro	516	39	3	43	1	0	0	10	0	0	32	0
Bates C.	516	61	66	43	0	0	19	6	0	0	18	0
Union C., Schenectady	516	286	225	43	0	0	0	4	0	0	15	24
Saginaw Valley State U.	519	68	42	42	23	0	1	5	1	2	2	8
California State U., Monterey Bay	520	252	111	38	0	0	3	0	0	0	0	35
SUNY, Oswego	521	102	34	37	23	2	2	2	0	0	8	0
Hawaii Pacific U.	522	20	0	32	32	0	0	0	0	0	0	0
Teachers C., Columbia U.	522	631	460	32	0	0	32	0	0	0	0	0
U. Hawaii, Hilo	522	46	35	32	0	0	0	0	0	0	0	32
Harvey Mudd C.	525	61	66	31	0	0	0	31	0	0	0	0
Andrews U.	526	78	63	30	0	0	0	3	0	0	0	27
California State U., Stanislaus	527	42	74	29	0	0	7	2	0	3	17	0
Thomas Jefferson U.	527	0	23	29	0	0	0	0	0	0	0	29
SUNY, Buffalo State	529	115	45	27	0	0	0	0	0	0	0	27
Fort Lewis C.	530	0	0	20	0	0	16	0	0	0	4	0
Missouri State U.	530	241	111	20	0	0	0	13	0	0	0	7
Lipscomb U.	532	ne	18	19	0	0	19	0	0	0	0	0
Morehead State U.	532	404	21	19	0	0	19	0	0	0	0	0
Cold Spring Harbor Laboratory	534	0	147	18	0	0	0	18	0	0	0	0
Oregon Health and Science U.	535	0	64	14	0	0	0	0	14	0	0	0
Touro U.	535	0	12	14	0	0	0	0	0	0	0	14
Dordt U.	537	ne	ne	12	0	0	0	12	0	0	0	0
Providence C.	538	26	32	11	0	0	3	2	0	0	6	0
Augustana U.	539	0	ne	10	0	10	0	0	0	0	0	0

TABLE 58

**Higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2021 non-S&E fields: FYs 2019–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2019	2020	2021								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
Central Washington U.	539	18	54	10	0	0	0	9	1	0	0	0
Gallaudet U.	539	2,127	1,695	10	0	10	0	0	0	0	0	0
West Virginia School of Osteopathic Medicine	539	ne	8	10	0	0	10	0	0	0	0	0
Norfolk State U.	543	115	32	8	0	0	0	0	0	8	0	0
U. Wisconsin-Stevens Point	543	48 <sup>i</sup>	51	8	0	0	0	0	0	0	0	8
Oklahoma State U., Center for Health Sciences	545	69	36	6	6	0	0	0	0	0	0	0
U. Hartford	546	0	197	5	0	0	0	0	0	5	0	0
U. New England	546	0	5	5	0	0	5	0	0	0	0	0
U. Wisconsin-Superior	548	0	6	4	4	0	0	0	0	0	0	0
CUNY, Advanced Science Research Center	549	10	147	3	0	0	0	0	0	0	3	0
Eastern Washington U.	549	53	61	3	0	0	3	0	0	0	0	0
SUNY, C. Brockport	549	18	6	3	0	0	0	0	0	3	0	0
Alaska Pacific U.	552	147	27	2	0	0	2	0	0	0	0	0
U. of the Pacific	553	691	23	1	0	0	0	0	0	0	0	1
All other surveyed institutions	-	41,058	39,377	0	0	0	0	0	0	0	0	0

<sup>i</sup> = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

S&E = science and engineering.

<sup>a</sup> The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

<sup>b</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

<sup>c</sup> The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

<sup>d</sup> Johns Hopkins University includes the Applied Physics Laboratory (APL), with zero imputed for total non-S&E R&D expenditures in FY 2021. Total expenditures by field for Johns Hopkins University are flagged as imputed because APL was unable to distribute a portion of institutionally funded R&D by field.

<sup>e</sup> The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

**Note(s):**

Institutions reporting zero expenditures in ranked total for FY 2021 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

**TABLE 59**  
**Federally financed higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2021 non-S&E fields: FYs 2019–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2019	2020	2021								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
All institutions	-	1,242,798	1,235,978	1,364,942	97,277	39,337	701,430	56,658	28,777	165,278	11,476	264,709
U. Washington, Seattle	1	34,540	37,000	46,225	0	4,762	26,551	2,303	284	10,429	161	1,735
Ohio State U.	2	32,570	33,733	35,971	293	223	11,772	508	33	5,709	394	17,039
U. Kansas	3	28,015	33,020	30,542	245	534	19,401	1,510	0	8,557	0	295
U. California, San Diego	4	787	753	27,633	11	2	1,290	730	0	0	0	25,600
Columbia U. in the City of New York	5	12,304	18,374	27,114	649	0	4,047	648	299	21,348	0	123
Stanford U.	6	25,269	25,472	26,065	187	1,182	24,633	40	0	0	0	23
U. Texas, Austin	7	20,430	21,951	24,298	636	1,959	11,920	243	0	7,985	0	1,555
U. South Florida <sup>a</sup>	8	17,220	16,872	24,086	1,179	302	21,733	81	0	416	41	334
Florida State U.	9	18,312	21,067	22,599	3	780	20,384	272	19	967	71	103
U. North Carolina, Chapel Hill	10	18,990	20,294	20,850	672	353	7,942	39	0	9,949	58	1,837
U. Maryland <sup>b</sup>	11	18,754	20,102	19,989	452	92	4,788	1,432	277	7,877	106	4,965
Virginia Commonwealth U.	12	16,900	17,485	19,474	0	9	16,017	40	0	339	27	3,042
Vanderbilt U. and Vanderbilt U. Medical Center	13	22,034	21,966	19,390	45	0	19,161	7	0	0	0	177
U. Florida	14	18,905	21,625	18,722	2,847	769	12,327	135	90	0	517	2,037
U. Missouri, Columbia	15	11,488	19,161	18,506	0	177	14,641	70	152	383	0	3,083
Georgia State U.	16	15,303	15,364	18,398	355	1,648	12,276	0	619	3,500	0	0
Arizona State U.	17	13,557	15,773	17,666	3,141	750	8,127	487	730	4,378	53	0
U. Louisiana, Lafayette	18	4,059	14,125	17,648	6,954	252	5,329	4,699	0	0	116	298
Purdue U., West Lafayette	19	18,643	12,964	17,615	995	110	3,755	197	0	0	5	12,553
Washington U., Saint Louis	20	11,623	14,855	17,410	0	0	70	30	0	17,310	0	0
U. California, Irvine	21	9,860	15,767	17,136	557	0	16,515	24	0	0	40	0
Washington State U.	22	21,558	19,600	17,081	2,173	750	11,030	237	0	36	0	2,855
Pennsylvania State U., University Park and Hershey Medical Center	23	9,288	6,685	16,343	3,175	524	9,739	1,754	233	899	19	0
U. Pennsylvania	24	14,612	15,517	16,017	642	4,055	4,961	820	764	0	0	4,775
Texas A&M U., College Station and Health Science Center	25	17,219	16,093	15,927	632	24	13,959	223	10	0	0	1,079
U. Wisconsin-Madison	26	14,831	14,656	15,444	73	191	14,271	486	0	11	0	412
U. Colorado Boulder	27	14,982	15,393	15,435	1,295	153	13,674	179	0	0	0	134

**TABLE 59**  
**Federally financed higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2021 non-S&E fields: FYs 2019–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2019	2020	2021								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
Texas State U.	28	16,111	13,652	15,180	86	0	5,167	0	9,583	0	127	217
U. Southern California	29	12,636	12,592	15,153	986	586	3,216	83	739	6,406	1,505	1,632
U. California, Los Angeles	30	12,974	12,811	14,850	644	1,465	12,268	14	316	0	30	113
U. Virginia, Charlottesville	31	19,322	17,919	14,801	0	0	11,172	2,272	356	0	10	991
Georgia Institute of Technology	32	7,525	9,624	14,134	258	745	7,329	563	0	0	585	4,654
U. Oregon	33	16,171	15,096	13,625	166	540	10,494	50	42	0	0	2,333
New York U.	34	20,713	15,252	12,475	227	0	8,575	213	136	1,322	0	2,002
U. Oklahoma, Norman and Health Science Center	35	5,215	4,088	12,251	510	178	10,502	0	0	76	32	953
U. Illinois, Urbana-Champaign	36	13,200	11,348	12,238	604	49	2,185	147	106	2,661	184	6,302
U. North Carolina, Greensboro	37	7,396	9,868	12,066	62	0	9,269	0	0	1,058	344	1,333
U. Utah	38	20,428	7,394	10,897	65	1,730	1,216	3	0	1,426	1,070	5,387
U. Baltimore	39	7,794	10,724	10,844	20	0	29	0	532	0	0	10,263
Michigan State U.	40	13,495	11,863	10,275	681	1,464	6,180	752	0	318	0	880
U. Denver	41	8,855	10,202	9,902	85	0	2,689	0	185	6,943	0	0
U. West Florida	42	10,296	9,681	9,624	8,371	0	1,019	0	0	71	0	163
U. Michigan, Ann Arbor	43	6,897	7,501	8,958	440	0	5,542	327	28	1,944	264	413
Brandeis U.	44	1,142	625	8,825	193	0	128	0	0	0	19	8,485
U. Massachusetts, Boston	45	8,966	12,568	8,735	0	0	8,386	179	0	0	170	0
Iowa State U.	46	2,325	4,759	8,657	5,088	16	729	303	0	0	271	2,250
Montana State U., Bozeman	47	8,000	8,799	8,284	41	0	1,659	9	0	0	0	6,575
U. Minnesota, Twin Cities	48	10,651	10,678	8,249	688	191	5,161	936	343	303	30	597
Colorado State U., Fort Collins	49	8,309	10,237	7,834	0	88	141	1,914	459	20	164	5,048
U. Illinois, Chicago	50	7,677	7,040	7,809	105	0	2,691	1,288	0	1,293	0	2,432
U. Alabama, Tuscaloosa	51	4,683	5,819	7,491	1,025	78	3,016	16	0	3,350	0	6
Harvard U.	52	7,282	7,290	7,279	0	80	6,019	813	367	0	0	0
Temple U.	53	11,472	8,036	7,215	1,463	174	4,292	71	339	342	17	517
Rutgers, State U. New Jersey, New Brunswick	54	10,578	7,257	6,982	1,679	530	2,077	261	0	1,242	0	1,193
U. Central Florida	55	8,459	6,715	6,711	797	148	3,613	64	0	551	0	1,538
U. California, Berkeley	56	6,273	4,886	6,331	628	755	4,752	145	51	0	0	0
Wayne State U.	57	3,694	4,601	6,268	0	1	880	17	99	3,137	0	2,134



**TABLE 59**  
**Federally financed higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2021 non-S&E fields: FYs 2019–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2019	2020	2021								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
Illinois State U.	88	5,437	5,080	4,593	129	0	4,055	0	0	0	0	409
U. California, Davis	89	4,106	3,897	4,488	33	10	3,002	406	0	0	1,037	0
Cornell U.	90	3,147	3,675	4,358	228	952	0	161	17	0	518	2,482
U. Houston	91	1,675	2,792	4,255	0	125	1,662	0	30	2,197	52	189
U. Massachusetts, Amherst	92	7,296	3,624	4,203	314	29	2,061	16	27	0	0	1,756
U. Chicago	93	4,939	4,713	4,177	243	0	1,173	234	0	2,487	0	40
West Virginia U.	94	3,033	2,202	4,085	234	136	1,731	140	61	9	0	1,774
U. Memphis	95	1,296	2,136	4,040	272	0	1,533	0	0	1,008	0	1,227
Delaware State U.	96	243	3,478	3,999	0	0	3,709	0	0	0	0	290
North Carolina Agricultural and Technical State U.	97	2,939	3,168	3,920	1,155	0	569	0	0	0	0	2,196
U. Montana, Missoula	98	2,647	3,322	3,846	23	31	1,303	28	0	2,461	0	0
George Mason U.	99	4,930	4,738	3,802	0	772	2,477	133	0	0	0	420
U. New Hampshire	100	5,642	5,819	3,744	67	0	2,597	5	0	1,075	0	0
St. Edward's U.	101	1,607	3,132	3,620	0	0	3,620	0	0	0	0	0
U. Georgia	102	3,320	4,004	3,604	266	90	2,204	197	0	0	0	847
Colorado C.	103	122	105	3,528	2,424	0	168	0	0	0	929	7
Rochester Institute of Technology	104	4,164	4,013	3,484	0	0	2,809	113	0	0	415	147
Massachusetts Institute of Technology	105	3,524	4,557	3,434	484	0	1,493	858	159	66	68	306
Rhode Island C.	106	2,606	3,026	3,424	539	0	2,480	0	0	405	0	0
Brown U.	107	2,611	2,496	3,272	0	0	2,666	18	10	0	0	578
East Carolina U.	108	1,884	3,585	3,180	30	0	3,021	0	0	44	0	85
Sam Houston State U.	109	1,407	2,320	3,160	0	0	3,157	3	0	0	0	0
Northwestern U.	110	4,560	3,696	3,100	704	1,148	1,059	79	110	0	0	0
San Diego State U.	111	1,920	2,068	3,086	410	32	2,213	48	0	367	0	16
Southern Methodist U.	112	2,650	2,193	3,083	0	0	2,926	97	0	0	60	0
SUNY, U. Buffalo	113	4,525	4,326	3,033	65	136	2,548	268	0	9	0	7
American U.	114	1,467	2,632	3,012	457	149	261	0	1,446	0	0	699
U. Nebraska, Lincoln	115	1,747	2,505	2,974	189	0	1,424	842	0	0	0	519
U. California, Santa Barbara	116	2,948	2,078	2,965	1,003	106	1,675	181	0	0	0	0
George Washington U.	117	3,135	3,507	2,874	735	0	1,460	402	33	0	0	244

**TABLE 59**  
**Federally financed higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2021 non-S&E fields: FYs 2019–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2019	2020	2021								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
U. Arkansas, Fayetteville	118	4,004	2,258	2,860	13	0	2,205	0	240	52	0	350
Salisbury U.	119	1,632	2,209	2,855	323	0	1,892	29	0	526	0	85
Kansas State U.	120	2,391	2,936	2,849	28	23	1,092	79	0	0	0	1,627
U. Mississippi	121	1,134	1,438	2,831	261	27	403	20	938	0	0	1,182
U. Texas, Arlington	122	2,566	2,793	2,812	59	0	481	27	0	610	0	1,635
U. Colorado Denver <sup>c</sup>	123	na	na	2,808	333	0	1,530	111	0	56	94	684
CUNY, John Jay C. of Criminal Justice	124	3,817	2,825	2,769	0	0	256	0	2,432	0	0	81
U. Cincinnati	125	3,236	2,840	2,686	80	0	1,521	14	0	0	0	1,071
U. Arizona	126	3,965	3,186	2,630	6	39	1,825	3	232	0	6	519
Rensselaer Polytechnic Institute	127	3,203	4,216	2,629	0	0	0	0	0	0	21	2,608
U. New Mexico	128	3,075	2,745	2,625	582	0	1,145	68	158	275	0	397
California State U., San Bernardino	129	2,660	2,312	2,604	0	0	2,604	0	0	0	0	0
U. Connecticut	129	5,724	4,085	2,604	204	128	520	29	0	890	0	833
Rice U.	131	479	2,093	2,534	219	0	2,314	0	0	0	1	0
Virginia Polytechnic Institute and State U.	132	3,399	1,840	2,442	227	226	935	114	0	0	13	927
Old Dominion U.	133	3,722	3,426	2,356	50	0	2,271	35	0	0	0	0
Mississippi State U.	134	1,192	1,523	2,221	66	0	1,843	0	0	0	0	312
Oklahoma State U., Stillwater	135	1,123	1,454	2,185	251	197	395	70	0	0	0	1,272
U. Kentucky	136	3,085	2,816	2,137	490	35	467	13	0	445	0	687
U. Tennessee, Knoxville <sup>d</sup>	137	1,885	1,661	2,129	526	644	646	0	9	14	2	288
Johns Hopkins U. <sup>e</sup>	138	2,759	2,673	2,121	0	0	0	1,928	0	0	0	193
U. Alabama, Birmingham	139	2,493	2,904	2,081	194	0	346	0	0	76	0	1,465
Bowling Green State U.	140	1,974	1,842	2,074	0	0	1,828	0	0	0	0	246
Florida Gulf Coast U.	141	2,829	2,665	2,057	220	0	1,751	35	31	3	0	17
U. Maine	142	1,217	1,621	1,999	0	143	160	344	0	69	0	1,283
U. Alaska, Fairbanks	143	1,559	1,842	1,982	119	0	1,288	358	0	0	0	217
U. Rhode Island	144	3,167	1,382	1,931	768	275	330	476	0	0	0	82
U. North Texas, Denton	145	1,251	1,634	1,892	607	0	1,068	3	0	0	7	207
CUNY, Hunter C.	146	2,297	2,387	1,891	0	0	1,445	3	0	443	0	0



**TABLE 59**  
**Federally financed higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2021 non-S&E fields: FYs 2019–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2019	2020	2021								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
Colorado School of Mines	147	1,010	1,685	1,874	66	0	0	0	0	0	0	1,808
Brigham Young U., Provo	148	1,924	1,843	1,825	141	0	207	1,326	0	0	0	151
Texas Tech U.	149	5,279	1,790	1,809	470	699	343	90	0	0	82	125
U. Texas, San Antonio	150	1,602	1,822	1,775	53	233	1,060	85	0	311	33	0
Indiana U.-Purdue U., Indianapolis	151	1,677	1,573	1,749	134	9	514	113	0	427	0	552
U. North Dakota	152	2,465	2,132	1,721	0	0	422	0	0	53	0	1,246
U. Idaho	153	3,067	1,632	1,715	0	0	1,681	0	0	0	0	34
U. California, Riverside	154	1,485	2,268	1,702	0	0	1,658	40	0	0	0	4
U. California, Merced	155	337	495	1,641	380	3	427	3	0	0	4	824
Georgetown U.	156	1,046	544	1,621	146	274	0	128	237	0	0	836
Tufts U.	157	10,542	2,847	1,587	0	0	1,073	135	0	0	0	379
Duke U.	158	1,161	1,723	1,586	607	0	61	158	301	0	55	404
Lehigh U.	159	2,272	1,242	1,568	0	0	1,466	24	0	0	0	78
U. Maryland, Baltimore County	160	2,253	1,213	1,565	0	0	1,442	0	0	25	15	83
Kent State U.	161	774	1,598	1,559	0	0	1,034	3	0	5	0	517
U. Texas, El Paso	162	1,150	1,631	1,545	26	0	920	38	0	548	13	0
Texas A&M U.-Kingsville	163	1,545	1,357	1,443	0	0	1,202	0	0	0	0	241
SUNY, Stony Brook U.	164	1,360	952	1,420	0	229	190	259	0	601	0	141
U. Nevada, Las Vegas	165	1,209	1,065	1,414	3	4	1,192	0	0	0	0	215
Rutgers, State U. New Jersey, Newark	166	1,334	1,471	1,390	961	0	0	0	0	0	0	429
Stevens Institute of Technology	167	639	1,320	1,373	371	0	0	1,002	0	0	0	0
U. North Carolina, Charlotte	168	1,282	1,283	1,341	98	0	802	147	0	117	0	177
Montclair State U.	169	1,114	1,016	1,330	0	0	763	21	52	116	112	266
U. Southern Mississippi	170	1,237	1,079	1,323	20	0	0	86	0	0	0	1,217
Boise State U.	171	2,139	1,793	1,304	232	0	1,052	3	0	0	0	17
California State U., Sacramento	172	563	801	1,263	0	0	1,102	40	0	13	0	108
Utah State U.	173	592	723	1,234	0	0	525	0	0	0	0	709
U. Rochester	174	1,226	1,087	1,221	45	0	1,169	0	0	0	5	2
SUNY, Binghamton U.	175	587	537	1,213	132	0	487	0	0	0	0	594
Johnson C. Smith U.	176	996	1,143	1,212	0	0	1,106	0	0	0	0	106
U. Massachusetts, Lowell	177	1,361	1,267	1,209	96	0	928	129	0	0	0	56

**TABLE 59**  
**Federally financed higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2021 non-S&E fields: FYs 2019–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2019	2020	2021								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
National Defense U.	178	2,076	2,000	1,200	0	0	1,200	0	0	0	0	0
Texas A&M U.-Corpus Christi	179	1,320	896	1,185	68	0	872	25	0	0	0	220
Seton Hall U.	180	3,172	2,186	1,134	0	0	1,134	0	0	0	0	0
Morgan State U.	181	108	85	1,112	145	0	0	0	0	284	0	683
Jackson State U.	182	103	102	1,099	28	0	738	102	0	231	0	0
U. Washington, Bothell	183	1,553	1,555	1,053	103	0	913	0	0	0	0	37
U. of the District of Columbia	184	757	644	1,050	0	0	0	0	0	0	0	1,050
Southern Illinois U., Edwardsville	185	610	903	1,044	0	0	0	604	0	0	154	286
Florida Atlantic U.	186	617	908	1,031	0	0	303	0	0	26	0	702
San Jose State U.	187	2,071	2,041	1,021	786	0	0	13	0	77	0	145
Pace U.	188	1,042	877	1,014	0	0	1,014	0	0	0	0	0
Fayetteville State U.	189	194	209	1,009	193	0	816	0	0	0	0	0
U. Nevada, Reno	190	1,936	966	1,006	838	17	0	0	81	0	70	0
Loyola U., Chicago	191	643	741	969	0	0	257	0	0	712	0	0
U. Dayton	192	783	886	966	0	0	521	0	0	17	33	395
Worcester Polytechnic Institute	193	820	754	964	659	0	0	0	0	0	0	305
Fordham U.	194	1,047	997	963	0	20	471	58	55	356	0	3
SUNY, U. Albany	195	1,484	877	947	199	14	612	15	0	103	0	4
Emory U.	196	946	1,149	931	0	68	504	123	27	0	56	153
California State U., San Marcos	197	1,127	1,237	905	2	0	398	0	0	0	0	505
Dartmouth C. and Dartmouth Hitchcock Medical Center	198	628	1,179	886	48	0	42	450	0	0	132	214
Virginia State U.	199	1,150	1,012	855	0	0	782	0	0	0	0	73
Northern Arizona U.	200	824	895	854	0	73	781	0	0	0	0	0
North Carolina Central U.	201	1,268	904	845	0	0	682	0	46	117	0	0
Seattle U.	202	733	816	840	0	0	840	0	0	0	0	0
U. South Alabama	203	564	466	834	0	0	589	0	0	0	0	245
Loyola Marymount U.	204	203	108	831	0	0	806	0	0	0	0	25
U. Maryland Center for Environmental Science	205	903	876	830	0	0	830	0	0	0	0	0
U. Hawaii, Manoa	206	384	603	819	0	106	55	3	0	519	0	136
Winthrop U.	207	804	866	816	0	0	816	0	0	0	0	0

**TABLE 59**  
**Federally financed higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2021 non-S&E fields: FYs 2019–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2019	2020	2021								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
La Sierra U.	208	608	614	812	0	0	812	0	0	0	0	0
Saint Louis U.	209	334	256	783	0	0	0	13	0	113	0	657
Case Western Reserve U.	210	1,579	838	780	154	0	586	0	40	0	0	0
CUNY, Lehman C.	211	1,161	583	776	0	0	776	0	0	0	0	0
Erikson Institute	212	753	1,006	772	0	0	772	0	0	0	0	0
Auburn U., Auburn	213	673	624	771	40	0	296	186	0	0	0	249
U. North Carolina, Wilmington	214	769	799	738	380	0	334	24	0	0	0	0
Villanova U.	215	129	445	721	0	0	0	73	8	0	0	640
Lamar U.	216	1,037	989	716	50	0	463	0	0	0	0	203
South Carolina State U.	217	649	673	697	128	0	569	0	0	0	0	0
Chapman U.	218	379	537	693	0	570	8	0	100	0	0	15
Mills C.	219	840	1,341	683	0	0	683	0	0	0	0	0
U. Colorado Anschutz Medical Campus <sup>c</sup>	220	na	na	668	0	0	146	0	0	304	0	218
U. Houston-Downtown	221	1,307	1,118	665	0	0	665	0	0	0	0	0
Florida Institute of Technology	222	309	551	663	25	0	0	0	0	0	0	638
U. Texas Rio Grande Valley	222	309	503	663	18	0	454	59	0	46	0	86
California State U., Bakersfield	224	131	242	660	0	0	660	0	0	0	0	0
Bryn Mawr C.	225	749	698	655	0	0	0	562	0	93	0	0
William Paterson U.	226	966	824	653	1	0	652	0	0	0	0	0
Winston-Salem State U.	227	543	1,264	651	0	0	651	0	0	0	0	0
Drake U.	228	243	ne	645	0	0	610	0	5	0	0	30
California State U., Northridge	229	1,396	783	626	125	0	292	117	68	0	0	24
Texas Southern U.	230	0	659	610	0	0	0	0	0	0	0	610
CUNY, Queens C.	231	595	518	607	0	0	607	0	0	0	0	0
Embry-Riddle Aeronautical U.	232	80	151	601	62	0	0	0	0	0	0	539
Western U. of Health Sciences	233	462	431	600	0	0	600	0	0	0	0	0
U. Massachusetts, Dartmouth	234	396	440	597	0	0	597	0	0	0	0	0
U. Oklahoma, Tulsa	235	388	394	586	0	0	227	0	0	359	0	0
Duquesne U.	236	236	402	585	467	0	69	0	25	0	0	24
U. Northern Colorado	237	448	620	580	0	0	580	0	0	0	0	0
Wesleyan U.	237	582	746	580	0	0	541	0	0	0	39	0

**TABLE 59**  
**Federally financed higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2021 non-S&E fields: FYs 2019–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2019	2020	2021								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
Sacred Heart U.	239	ne	ne	572	0	0	572	0	0	0	0	0
Princeton U.	240	706	812	570	0	41	0	322	0	0	188	19
Cleveland State U.	241	493	522	564	0	0	532	0	0	32	0	0
Miami U.	242	2,075	1,644	558	0	50	112	0	0	0	0	396
U. San Diego	243	17	350	557	0	0	557	0	0	0	0	0
U. Nebraska, Omaha	244	1,152	1,370	554	55	0	499	0	0	0	0	0
California State U., Chico	245	505	577	552	2	0	550	0	0	0	0	0
U. North Carolina, Asheville	246	584	557	547	60	0	438	46	0	0	0	3
Pacific U.	247	1,186	877	544	0	0	472	72	0	0	0	0
Northeastern Illinois U.	248	400	640	543	0	0	543	0	0	0	0	0
Kennesaw State U.	249	761	287	542	310	0	232	0	0	0	0	0
Howard U.	250	556	471	536	0	96	40	0	0	400	0	0
U. Alabama, Huntsville	251	522	689	530	78	5	329	73	0	0	2	43
Claremont Graduate U.	252	472	6	526	0	0	526	0	0	0	0	0
U. Missouri, Saint Louis	253	300	306	513	0	0	404	0	0	109	0	0
California State U., Fresno	254	3	113	508	29	0	466	0	1	0	0	12
Saint Joseph's U.	255	112	272	506	0	0	506	0	0	0	0	0
Texas Woman's U.	256	1,187	818	505	0	0	505	0	0	0	0	0
U. Central Arkansas	256	115	47	505	0	0	358	0	0	0	0	147
U. Arkansas, Little Rock	258	574	629	501	0	0	445	0	56	0	0	0
Youngstown State U.	259	0	118	481	0	0	178	0	0	0	0	303
California State U., Dominguez Hills	260	126	73	473	0	0	473	0	0	0	0	0
U. Texas, Dallas	261	1,023	758	471	91	0	154	226	0	0	0	0
New Mexico State U.	262	839	915	464	0	0	418	0	0	0	0	46
Texas Christian U.	262	655	328	464	26	0	336	0	0	102	0	0
Citadel Military C. South Carolina	264	ne	266	456	1	0	455	0	0	0	0	0
U. Guam	265	235	358	454	0	0	454	0	0	0	0	0
U. Wisconsin-Milwaukee	266	433	641	453	0	0	416	3	0	0	3	31
Marquette U.	267	179	206	448	0	0	0	0	0	0	0	448
U. Vermont	268	27	305	436	0	0	436	0	0	0	0	0
Morehouse C.	269	67	139	431	135	0	0	0	0	0	76	220

**TABLE 59**  
**Federally financed higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2021 non-S&E fields: FYs 2019–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2019	2020	2021								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
Pepperdine U.	270	515	432	425	0	0	305	2	118	0	0	0
U. Missouri, Kansas City	271	224	399	419	0	0	344	67	0	0	0	8
Bowie State U.	272	1,035	599	418	0	0	0	0	0	0	0	418
Dillard U.	273	0	36	416	0	0	416	0	0	0	0	0
California State U., Los Angeles	274	200	292	410	0	0	410	0	0	0	0	0
Willamette U.	274	114	179	410	0	0	410	0	0	0	0	0
U. Puerto Rico, Mayaguez	276	0	0	390	390	0	0	0	0	0	0	0
Tulane U.	277	32	74	385	188	0	0	0	0	0	0	197
Michigan Technological U.	278	221	260	382	0	0	370	12	0	0	0	0
Appalachian State U.	279	34	94	381	0	0	366	2	0	0	0	13
California Polytechnic State U., San Luis Obispo	280	146	413	378	8	52	278	40	0	0	0	0
U. California, Santa Cruz	281	1,034	655	376	0	0	55	214	0	0	107	0
Southern U. and A&M C., Baton Rouge	282	563	429	375	0	0	321	54	0	0	0	0
Clarkson U.	283	201	219	374	0	0	280	94	0	0	0	0
Ball State U.	284	322	107	370	293	0	7	0	0	25	0	45
U. Miami	285	530	410	369	0	0	369	0	0	0	0	0
New School	286	29	64	364	0	132	90	113	0	0	9	20
Tennessee Technological U.	286	157	133	364	0	0	196	1	0	0	0	167
U. Tulsa	288	251	142	352	0	0	316	0	11	0	25	0
Elizabeth City State U.	289	ne	463	337	0	0	331	6	0	0	0	0
Hampton U.	290	447	436	336	0	0	6	0	0	0	0	330
Kettering U.	290	81	145	336	336	0	0	0	0	0	0	0
Marshall U.	292	38	8	332	332	0	0	0	0	0	0	0
Northwest Indian C.	292	319	316	332	0	0	55	0	0	0	0	277
California State U., Long Beach	294	199	168	329	0	38	126	121	0	2	21	21
U. Washington, Tacoma	294	357	176	329	0	0	322	0	0	0	0	7
Western Washington U.	296	136	128	327	0	1	320	6	0	0	0	0
U. Nebraska, central administration	297	1,163	858	326	0	0	0	0	0	0	0	326
San Francisco State U.	298	526	320	323	0	0	321	0	0	0	2	0

**TABLE 59**  
**Federally financed higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2021 non-S&E fields: FYs 2019–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2019		2020		2021								
						All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
CUNY, New York City C. of Technology	299	96	226	313	0	0	313	0	0	0	0	0		
Hofstra U.	300	381	391	306	0	0	305	1	0	0	0	0		
St. Cloud State U.	301	218	318	304	0	0	304	0	0	0	0	0		
Grambling State U.	302	508	428	295	0	0	181	59	0	0	0	55		
Pratt Institute	303	ne	ne	294	0	0	0	0	0	0	0	294		
Indiana State U.	304	369	314	290	0	0	290	0	0	0	0	0		
C. Charleston	305	706	306	287	0	0	194	14	0	0	6	73		
West Texas A&M U.	306	287	289	280	0	0	41	0	0	0	0	239		
U. California, Office of the President	307	0	0	274	0	0	78	0	0	0	0	196		
Pennsylvania State U., Behrend	308	3	0	272	14	8	231	14	0	0	5	0		
Texas Tech U., Health Sciences Center, El Paso	309	41	28	265	0	0	240	0	0	0	0	25		
U. Colorado Colorado Springs	310	320	398	261	0	0	82	0	0	0	0	179		
U. Wyoming	310	425	1,275	261	0	0	43	0	0	0	0	218		
New Mexico Institute of Mining and Technology	312	93	324	258	103	0	155	0	0	0	0	0		
Prairie View A&M U.	313	100	115	251	0	0	161	0	0	0	0	90		
Carnegie Mellon U.	314	51	144	250	145	0	0	80	0	0	0	25		
CUNY, Graduate Center	315	224	355	245	0	0	123	0	0	0	0	122		
Catholic U. of America	316	234	259	242	0	0	0	0	108	70	0	64		
U. of Mary Washington	317	449	453	239	149	0	16	74	0	0	0	0		
Tennessee State U.	318	513	220	233	4	0	141	0	0	0	0	88		
Roger Williams U.	319	307	201	230	0	0	173	0	57	0	0	0		
U. Alaska, Anchorage	320	554	162	227	5	0	199	23	0	0	0	0		
Alabama A&M U.	321	309	211	225	18	6	122	8	0	23	1	47		
Wright State U.	322	66	54	224	25	0	40	0	0	87	0	72		
Doane U.	323	200	206	222	0	0	222	0	0	0	0	0		
Stephen F. Austin State U.	324	35	373	215	0	0	138	0	0	77	0	0		
Southeastern Louisiana U.	325	217	0	213	213	0	0	0	0	0	0	0		
Eastern Michigan U.	326	164	78	208	0	18	124	11	0	55	0	0		
Jacksonville State U.	326	2,245	1,186	208	0	0	208	0	0	0	0	0		

**TABLE 59**  
**Federally financed higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2021 non-S&E fields: FYs 2019–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2019	2020	2021								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
Texas A&M U.-Commerce	328	56	222	198	0	0	56	0	0	0	0	142
Louisiana Tech U.	329	261	167	194	124	0	70	0	0	0	0	0
Arcadia U.	330	ne	ne	193	0	0	193	0	0	0	0	0
Rhode Island School of Design	331	31 i	30 i	192 i	0 i	0 i	0 i	20 i	0 i	0 i	107 i	65 i
James Madison U.	332	642	636	190	0	0	2	37	0	151	0	0
Langston U.	332	291	420	190	0	0	139	0	16	0	0	35
U. Toledo	332	471	358	190	0	0	28	0	0	104	0	58
Rowan U.	335	155	275	189	0	0	49	20	120	0	0	0
U. Central Oklahoma	336	180	178 i	187 i	0 i	0 i	55 i	0 i	0 i	0 i	0 i	132 i
Smith C.	337	5	167	184	0	0	75	0	0	0	0	109
Albany State U.	338	162	330	182	0	0	182	0	0	0	0	0
Reed C.	339	0	171	181 i	0 i	0 i	0 i	181 i	0 i	0 i	0 i	0 i
Santa Clara U.	340	67	35	174	94	0	16	0	0	0	0	64
CUNY, Brooklyn C.	341	255 i	266	170	0	0	126	24	0	0	0	20
Creighton U.	342	152 i	139 i	159 i	7 i	6 i	69 i	11 i	5 i	36 i	2 i	23 i
Idaho State U.	343	325	156	157	27	0	67	9	0	0	0	54
Central Connecticut State U.	344	212	383	155	0	0	100	55	0	0	0	0
U. Puerto Rico, Rio Piedras	344	273	304	155	0	0	75	0	0	0	0	80
U. Texas of the Permian Basin	346	ne	21	152	0	0	0	0	0	0	0	152
Long Island U.	347	192	72	148	0	0	11	137	0	0	0	0
Troy U.	348	ne	55	147	0	0	147	0	0	0	0	0
Baylor U.	349	70	167	146	0	0	36	85	0	25	0	0
Xavier U. Louisiana	350	153	52	139	0	2	32	105	0	0	0	0
California State Polytechnic U., Pomona	351	424	214	129	0	0	0	0	0	0	0	129
Colby C.	352	35	22	127	0	0	0	127	0	0	0	0
U. South Dakota	353	55	135	123	0	0	0	0	0	88	0	35
West Chester U. Pennsylvania	354	11	149	122	57	0	65	0	0	0	0	0
Kean U.	355	ne	253	120	0	0	54	56	0	0	0	10
CUNY, City C.	356	90	68	118	0	0	86	0	0	0	32	0
Ohio U.	357	349	77	116	0	30	0	0	0	0	7	79

**TABLE 59**  
**Federally financed higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2021 non-S&E fields: FYs 2019–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2019	2020	2021									
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other	
SUNY, C. of Environmental Science and Forestry	357	111	91	116	0	0	0	0	0	0	116	0	0
Purdue U., Northwest	359	980	27	115	0	0	0	0	0	0	0	91	24
Illinois Institute of Technology	360	74	92	113	0	0	113	0	0	0	0	0	0
U. Hawaii, Maui C.	361	ne	ne	110	0	0	110	0	0	0	0	0	0
U. New Orleans	362	81	127	108	57	0	0	35	0	0	0	0	16
Barnard C.	363	170	120	105	0	0	105	0	0	0	0	0	0
South Dakota State U.	364	153	144	102	0	25	0	5	0	0	0	0	72
U. Detroit Mercy	364	28	25	102	0	0	81	0	21	0	0	0	0
Southern Connecticut State U.	366	85	141	100	0	0	40	5	0	49	0	0	6
California State U., Maritime Academy	367	0	0	98	0	0	0	0	0	0	0	0	98
U. Tennessee, Chattanooga	368	0	0	91	0	0	45	0	0	0	0	0	46
SUNY, Geneseo	369	22	0	86	0	0	0	0	0	0	0	0	86
Loma Linda U.	370	106	i 96	i 85	85	0	0	0	0	0	0	0	0
Swarthmore C.	370	172	30	85	0	0	32	5	0	0	0	0	48
Northland C.	372	ne	ne	82	i 38	i 0	i 42	i 2	i 0	i 0	i 0	i 0	i 0
Murray State U.	373	32	18	80	80	0	0	0	0	0	0	0	0
Wake Forest U.	374	263	116	78	0	0	48	30	0	0	0	0	0
Black Hills State U.	375	675	53	76	0	0	76	0	0	0	0	0	0
Georgia Southern U.	376	15	31	75	0	0	75	0	0	0	0	0	0
Indiana U., South Bend	376	ne	ne	75	0	0	0	0	0	0	0	0	75
Clark Atlanta U.	378	139	111	73	0	0	0	0	0	26	0	0	47
Western Carolina U.	379	86	92	72	0	0	0	0	0	72	0	0	0
Indiana U. Pennsylvania	380	37	88	71	0	9	0	62	0	0	0	0	0
U. Akron	380	169	65	71	0	0	58	0	0	0	13	0	0
Abilene Christian U.	382	ne	ne	70	0	0	0	70	0	0	0	0	0
U. Massachusetts, central office	382	155	78	70	0	0	70	0	0	0	0	0	0
Bowdoin C.	384	13	0	69	0	0	69	0	0	0	0	0	0
Northern Illinois U.	385	1,905	2,005	66	0	0	21	0	0	0	0	0	45
U. North Carolina, general administration	385	0	10	66	18	0	22	0	0	0	0	0	26



**TABLE 59**  
**Federally financed higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2021 non-S&E fields: FYs 2019–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2019	2020	2021								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
Occidental C.	387	0	0	64	0	0	64	0	0	0	0	0
Rutgers, State U. New Jersey, Camden	387	0	0	64	0	0	0	0	0	0	0	64
C. New Jersey	389	ne	63	63	0	0	2	61	0	0	0	0
U. North Georgia	390	415	359	62	0	0	62	0	0	0	0	0
DePaul U.	391	133	132	52	0	0	52	0	0	0	0	0
Middle Tennessee State U.	391	901	1,166	52	39	0	0	13	0	0	0	0
U.S. Military Academy	393	4,096	338	51	0	0	0	50	1	0	0	0
East Tennessee State U.	394	0	0	48	0	0	48	0	0	0	0	0
U. Wisconsin-Oshkosh	395	45 i	44 i	44	44	0	0	0	0	0	0	0
U. Minnesota, Duluth	396	61	61	43	0	0	4	0	0	0	0	39
Western Kentucky U.	397	263	288	42	0	0	29	13	0	0	0	0
U. Michigan, Flint	398	0	56	41	0	0	30	11	0	0	0	0
U. Nebraska, Kearney	398	13	0	41	0	41	0	0	0	0	0	0
California State U., Channel Islands	400	0	40	40	0	0	0	0	0	0	0	40
Texas A&M International U.	400	33	45	40	0	0	35	0	0	0	5	0
Davidson C.	402	78	157	39	0	0	0	0	0	0	0	39
SUNY, C. Plattsburgh	403	55	20	38	0	0	38	0	0	0	0	0
Florida Polytechnic U.	404	0	0	35	35	0	0	0	0	0	0	0
Grinnell C.	404	38	27	35	0	0	35	0	0	0	0	0
Hope C.	404	12	29	35	0	0	15	15	0	0	0	5
Texas Tech U., Health Sciences Center	407	83	66	34	0	0	15	0	0	0	0	19
CUNY, York C.	408	34	33	33	0	0	0	0	0	0	0	33
Lawrence Technological U.	409	10	109	32	0	0	0	0	0	0	0	32
U. Wisconsin-Platteville	409	45 i	44 i	32 i	1 i	0 i	30 i	1 i	0 i	0 i	0 i	0 i
U. Wisconsin-Green Bay	411	29 i	31 i	31 i	1 i	1 i	17 i	1 i	0 i	3 i	0 i	8 i
Thomas Jefferson U.	412	0	23	29	0	0	0	0	0	0	0	29
Hamilton C.	413	102	83	27	0	0	0	27	0	0	0	0
Des Moines U.	414	40	24	26 i	0 i	0 i	26 i	0 i	0 i	0 i	0 i	0 i
Calvin U.	415	25	24 i	25 i	0 i	0 i	0 i	25 i	0 i	0 i	0 i	0 i

**TABLE 59**  
**Federally financed higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2021 non-S&E fields: FYs 2019–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2019	2020	2021											
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other			
Keck Graduate Institute	416	19	20	23	23	0	0	0	0	0	0	0	0	0	
Purdue U., Fort Wayne	417	68	28	22	0	0	0	22	0	0	0	0	0	0	
U. Minnesota, Morris	417	0	0	22	0	0	0	0	0	0	0	0	0	22	
Lipscomb U.	419	ne	18	19	0	0	19	0	0	0	0	0	0	0	
Pennsylvania State U., Harrisburg	419	0	14	19	0	0	19	0	0	0	0	0	0	0	
St. John's U., New York	419	0	0	19	0	0	19	0	0	0	0	0	0	0	
Cold Spring Harbor Laboratory	422	0	147	18	0	0	0	18	0	0	0	0	0	0	
Morehead State U.	422	180	17	18	0	0	18	0	0	0	0	0	0	0	
New York Institute of Technology	422	63	57	18	0	0	18	0	0	0	0	0	0	0	
U. Northern Iowa	425	0	89	17	0	0	0	10	0	0	0	0	0	7	
California State U., Fullerton	426	223	19	16	0	0	9	6	0	0	0	1	0	0	
Fort Lewis C.	426	0	0	16	0	0	16	0	0	0	0	0	0	0	
Towson U.	428	3	11	15	0	0	0	0	0	0	0	0	0	15	
U. Illinois, Springfield	428	14	5	15	0	0	0	15	0	0	0	0	0	0	
Fisk U.	430	142	0	14	0	0	14	0	0	0	0	0	0	0	
Mercyhurst U.	431	12	12	13	1	0	6	1	0	3	0	0	2	0	
Niagara U.	431	241	6	13	0	0	0	0	0	0	13	0	0	0	
U. Richmond	433	30	40	12	0	12	0	0	0	0	0	0	0	0	
Biola U.	434	10	10	11	1	0	5	1	0	2	0	0	2	0	
Augustana U.	435	0	ne	10	0	10	0	0	0	0	0	0	0	0	
Christopher Newport U.	435	0	18	10	0	0	0	0	0	0	0	0	10	0	
Gallaudet U.	435	1,085	942	10	0	10	0	0	0	0	0	0	0	0	
CUNY, Baruch C.	438	0	0	9	0	0	0	0	0	0	0	0	0	9	
Lafayette C.	438	72	10	9	0	0	0	9	0	0	0	0	0	0	
Grand Valley State U.	440	0	48	8	0	0	0	0	0	0	0	0	0	8	
Azusa Pacific U.	441	12	0	6	0	0	6	0	0	0	0	0	0	0	
Carleton C.	441	0	0	6	0	0	0	6	0	0	0	0	0	0	
St. Olaf C.	441	15	3	6	0	0	0	1	2	0	3	0	0	0	
West Virginia School of Osteopathic Medicine	444	ne	5	5	0	0	5	0	0	0	0	0	0	0	
C. of Saint Benedict	445	0	0	4	2	0	1	0	0	0	1	0	0	0	
Coastal Carolina U.	445	0	0	4	0	0	4	0	0	0	0	0	0	0	

**TABLE 59**  
**Federally financed higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2021 non-S&E fields: FYs 2019–21 and by subfield for FY 2021**

(Dollars in thousands)

Institution	Rank	2019	2020	2021									
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other	
U. South Carolina, Aiken	445	316	0	4	0	0	0	0	0	0	0	0	4
Eastern Washington U.	448	53	61	3	0	0	3	0	0	0	0	0	0
Missouri State U.	448	169	78	3	0	0	0	3	0	0	0	0	0
Alaska Pacific U.	450	147	27	2	0	0	2	0	0	0	0	0	0
Fort Hays State U.	450	4	3	2	0	0	2	0	0	0	0	0	0
Touro U.	450	0	12	2	0	0	0	0	0	0	0	0	2
Northern Kentucky U.	453	93	47	1	0	0	0	0	0	1	0	0	0
All other surveyed institutions	-	17,488	12,544	0	0	0	0	0	0	0	0	0	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

S&E = science and engineering.

<sup>a</sup> The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

<sup>b</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

<sup>c</sup> The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

<sup>d</sup> The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

<sup>e</sup> Johns Hopkins University includes the Applied Physics Laboratory, with zero in federally financed non-S&E R&D expenditures in FY 2021.

**Note(s):**

Institutions reporting zero expenditures in ranked total for FY 2021 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 60

**Federally financed higher education R&D expenditures, financed by the Department of Defense, ranked by DOD R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	DOD R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
All institutions	-	7,363,495	928,400	236,137	1,421,696	152,714	652,400	53,146	69,670	83,086	3,703,852	62,394
Johns Hopkins U. <sup>a</sup>	1	1,459,350	205,769	13,760	94,105	97,972	182,454	464	1,839	40,583	822,404	0
Georgia Institute of Technology	2	626,448	98,613	311	369	163	2,221	755	698	0	516,698	6,620
Uniformed Services U. of the Health Sciences	3	263,812	0	0	250,443	0	0	13,369	0	0	0	0
Pennsylvania State U., University Park and Hershey Medical Center	4	263,661	41,225	2,806	2,328	6,031	20,216	247	634	0	186,706	3,468
U. Texas, Austin	5	191,082	38,481	216	7,045	902	31,502	255	206	19	112,016	440
Utah State U.	6	129,190	0	0	1,787	0	244	0	69	0	126,919	171
Massachusetts Institute of Technology	7	128,158	38,444	792	5,356	1,189	11,643	204	13	429	69,461	627
U. Southern California	8	126,122	83,677	0	12,753	268	4,433	173	393	0	23,677	748
U. Maryland <sup>b</sup>	9	116,368	13,163	418	25,384	722	15,523	542	13,528	14,119	32,489	480
U. Dayton	10	104,393	6,171	0	215	0	619	0	0	0	96,954	434
U. Washington, Seattle	11	100,320	5,575	26,509	28,374	1,165	4,063	951	98	0	33,076	509
Colorado State U., Fort Collins	12	98,372	922	6,614	82,011	457	746	38	2,265	223	5,096	0
Carnegie Mellon U.	13	90,404	62,591	0	166	715	223	1,265	1,662	385	23,344	53
U. California, San Diego	14	79,587	1,055	33,761	15,812	57	5,780	1,167	492	0	21,463	0
U. Michigan, Ann Arbor	15	78,334	332	127	15,924	467	4,436	53	3,324	0	53,671	0
Stanford U.	16	76,467	6,830	710	17,399	820	17,107	557	174	0	32,427	443
U. Alabama, Huntsville	17	73,021	40,227	0	0	0	447	0	597	0	31,750	0
Harvard U.	18	72,042	3,695	368	30,667	108	18,515	16	2,750	0	15,923	0
Woods Hole Oceanographic Institution	19	65,558	0	33,557	0	0	0	0	0	0	32,001	0
Duke U.	20	61,602	587	2,048	33,544	906	1,308	71	266	0	22,736	136
Texas A&M U., College Station and Health Science Center	21	59,476	3,722	579	10,183	646	622	0	1,102	4	42,165	453
U. Illinois, Urbana-Champaign	22	58,649	12,968	190	4,176	68	5,020	362	508	199	34,024	1,134
Purdue U., West Lafayette	23	52,673	5,007	30	1,917	118	2,896	43	0	12	40,128	2,522
U. Pennsylvania	24	51,902	10,715	117	9,443	213	5,225	2,905	4,513	0	17,301	1,470
George Mason U.	25	51,849	11,907	932	3,118	662	1,624	201	384	0	33,021	0
Naval Postgraduate School	26	50,967	3,743	4,978	1,209	1,869	5,605	40	4,932	3,798	19,372	5,421
U. California, Los Angeles	27	50,437	2,805	911	20,851	5,088	2,387	43	211	498	17,615	28
Columbia U. in the City of New York	28	49,219	12,517	1,306	12,859	307	4,982	351	531	0	16,221	145
Cornell U.	29	49,165	5,920	226	12,494	0	13,851	202	507	0	15,965	0

TABLE 60

**Federally financed higher education R&D expenditures, financed by the Department of Defense, ranked by DOD R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	DOD R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Virginia Polytechnic Institute and State U.	30	47,432	1,725	37	3,199	1,513	1,905	0	16	9	39,020	8
SUNY, U. Buffalo	31	46,847	331	51	5,217	30	783	0	0	0	40,435	0
Northwestern U.	32	45,744	1,628	0	16,329	0	11,468	261	21	919	13,934	1,184
U. Pittsburgh, Pittsburgh	33	45,446	2,012	185	34,164	46	4,191	0	41	100	4,702	5
Ohio State U.	34	42,934	654	606	15,411	564	4,289	125	140	231	20,346	568
U. California, Berkeley	35	42,813	0	0	5,750	243	9,424	523	130	1,661	24,909	173
U. Colorado Boulder	36	41,850	3,140	2,565	2,061	58	15,554	84	0	0	18,388	0
Wichita State U.	37	40,514	0	0	0	0	0	0	0	0	40,485	29
U. Central Florida	38	39,374	14,527	0	849	0	13,065	2,790	183	0	7,794	166
U. Florida	39	39,140	1,819	0	14,224	142	345	102	1,268	0	21,240	0
Arizona State U.	40	38,834	7,539	286	2,735	393	1,531	648	1,002	4,381	18,974	1,345
U. Alabama, Birmingham	41	37,913	0	0	10,451	0	713	85	0	0	26,664	0
U. California, San Francisco	42	37,403	0	0	33,883	0	3,520	0	0	0	0	0
Montana State U., Bozeman	43	35,768	334	460	2,269	260	2,843	0	0	0	24,483	5,119
U. Virginia, Charlottesville	44	35,252	8,169	23	10,585	95	1,701	90	469	0	13,776	344
U. Minnesota, Twin Cities	45	35,239	671	0	13,786	1,162	1,369	26	218	0	17,284	723
Vanderbilt U. and Vanderbilt U. Medical Center	46	34,170	6,577	80	18,421	0	91	0	0	0	9,001	0
U. Wisconsin-Madison	47	33,479	2,584	1,518	6,242	857	6,746	27	0	1,663	13,788	54
North Carolina State U.	48	33,180	2,237	426	4,744	2,372	1,209	0	241	7,702	14,242	7
Northeastern U.	49	32,776	4,478	0	930	0	1,322	376	2,259	0	23,041	370
U. California, Santa Barbara	50	32,274	2,664	526	382	0	8,422	58	30	0	19,743	449
Mercer U.	51	31,981	0	0	63	0	0	0	0	6	31,912	0
U.S. Air Force Academy	52	31,818	150	34	369	0	2,348	0	3	0	28,914	0
Mississippi State U.	53	31,014	1,126	0	476	0	113	107	986	0	28,140	66
U. Arizona	54	30,845	5,152	260	8,817	144	2,529	166	523	0	13,229	25
California Institute of Technology	55	30,794	6,830	467	1,831	0	13,201	0	0	0	8,270	195
Princeton U.	56	30,518	2,430	313	2,508	999	4,732	145	500	0	18,882	9
U. Hawaii, Manoa	57	29,477	8,806	2,095	1,483	40	5,458	0	0	0	11,595	0
U. Alaska, Fairbanks	58	29,220	0	20,490	462	0	4,894	0	0	0	3,255	119
U. Notre Dame	59	28,768	1,317	0	2,319	189	2,695	2	0	814	21,432	0
Yale U.	60	27,839	816	150	11,579	0	8,208	328	31	0	6,685	42

TABLE 60

**Federally financed higher education R&D expenditures, financed by the Department of Defense, ranked by DOD R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	DOD R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Utah	61	27,748	3,335	397	13,073	219	2,338	2,237	815	0	5,290	44
Icahn School of Medicine at Mount Sinai	62	26,220	0	0	26,220	0	0	0	0	0	0	0
Air Force Institute of Technology	63	24,584	1,424	175	0	197	7,868	0	0	0	14,920	0
U. North Carolina, Chapel Hill	64	24,324	2,131	361	18,684	297	2,002	0	203	0	613	33
U. California, Davis	65	23,219	222	78	12,729	260	728	0	385	0	8,806	11
U. Chicago	66	21,814	1,388	0	2,830	381	7,659	312	1,052	0	8,192	0
Washington U., Saint Louis	67	21,588	1,453	22	17,404	101	290	305	0	0	2,010	3
U. Miami	68	21,486	0	11,655	8,001	0	171	884	0	0	775	0
U. Delaware	69	21,335	342	1,107	1,440	181	3,097	188	25	0	14,635	320
Stevens Institute of Technology	70	21,258	1,921	0	0	0	211	0	0	0	18,251	875
New York U.	71	20,716	2,327	0	7,243	2,048	3,947	1,259	0	0	3,499	393
U. New Mexico	72	20,121	347	130	4,508	0	2,316	125	263	615	11,817	0
SUNY, Polytechnic Institute	73	20,113	0	0	0	0	0	0	0	0	20,113	0
New Mexico State U.	74	20,082	0	0	3,857	20	8,459	0	0	0	7,746	0
Florida State U.	75	19,797	437	1,302	181	200	712	3,292	0	0	13,673	0
U. Massachusetts, Lowell	76	19,101	1,144	606	656	0	7,255	0	396	0	9,038	6
U. Connecticut	77	18,901	244	772	2,072	229	1,166	0	0	0	14,418	0
Rice U.	78	18,504	1,621	210	1,451	207	2,461	1,517	0	0	10,768	269
Auburn U., Auburn	79	18,413	627	0	1,545	0	385	142	1	90	15,623	0
Brown U.	80	18,197	4,318	197	2,842	2,686	1,136	0	208	46	6,764	0
Louisiana State U., Baton Rouge	81	18,045	9,659	457	3,758	242	786	0	173	0	902	2,068
U. Tennessee, Knoxville	82	17,970	794	94	3,204	23	651	0	83	591	12,451	79
Oregon State U.	83	17,806	1,631	3,287	2,134	12	205	17	0	563	9,493	464
Boston U.	84	17,764	2,401	234	5,354	392	1,188	256	0	0	7,573	366
Case Western Reserve U.	85	17,288	0	0	8,596	0	1,410	0	68	0	7,214	0
U. Maine	86	17,105	0	57	0	0	269	0	0	0	16,770	9
Michigan Technological U.	87	17,082	1,277	2,452	0	46	296	0	0	0	12,756	255
U. Nebraska, central administration	88	17,024	448	0	11,195	0	0	0	0	0	5,055	326
U. Colorado Anschutz Medical Campus <sup>c</sup>	89	16,740	0	0	16,740	0	0	0	0	0	0	0
U. Massachusetts, Amherst	90	16,646	4,913	0	894	258	555	0	0	0	10,026	0
New Jersey Institute of Technology	91	16,638	383	0	285	235	2,128	0	0	0	11,795	1,812
U. Iowa	92	15,123	679	0	5,193	50	1,977	0	221	0	6,894	109

TABLE 60

**Federally financed higher education R&D expenditures, financed by the Department of Defense, ranked by DOD R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	DOD R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Indiana U., Bloomington	93	15,118	1,758	285	10,738	52	679	295	63	347	586	315
Colorado School of Mines	94	15,048	616	103	0	117	1,471	0	0	0	12,741	0
Baylor C. of Medicine	95	14,865	0	0	14,865	0	0	0	0	0	0	0
Michigan State U.	96	14,834	2,506	257	2,275	346	2,321	214	0	41	6,629	245
Rutgers, State U. New Jersey, New Brunswick	97	14,435	62	469	4,573	571	1,026	0	0	165	7,569	0
Florida International U.	98	14,133	580	444	793	0	3,675	0	2,047	0	6,594	0
U. California, Irvine	99	13,820	1,623	0	5,794	633	675	223	14	0	4,858	0
U. Southern Mississippi	100	13,655	164	4,584	191	0	7,778	0	678	0	36	224
U. Cincinnati	101	13,647	0	0	9,383	139	33	0	5	0	3,871	216
U. Missouri, Columbia	102	13,439	3,087	166	2,239	0	2,799	344	0	0	4,804	0
U. Rochester	103	13,268	514	0	6,527	0	3,900	0	110	0	2,217	0
Wake Forest U.	104	13,142	0	0	13,052	0	90	0	0	0	0	0
U.S. Military Academy	105	12,655	1,822	2	1,727	456	338	0	769	156	7,334	51
Rensselaer Polytechnic Institute	106	12,484	3,483	0	0	356	328	1,919	0	0	6,352	46
U. Texas, Dallas	107	11,441	2,483	0	1,593	0	1,937	127	49	0	5,252	0
Wright State U.	108	11,336	2,205	0	1,534	0	447	867	0	0	6,100	183
U. Hawaii, system office	109	11,304	0	11,304	0	0	0	0	0	0	0	0
Iowa State U.	110	11,182	420	0	2,200	0	262	0	0	0	8,300	0
U. Illinois, Chicago	111	11,082	1,644	0	5,009	0	163	0	233	0	3,536	497
Oregon Health and Science U.	112	10,623	0	0	10,621	0	0	0	0	0	2	0
U. Texas M. D. Anderson Cancer Center	113	10,454	0	0	10,339	32	0	0	83	0	0	0
Virginia Commonwealth U.	114	10,229	29	0	8,624	35	248	100	13	0	1,154	26
U. South Florida <sup>d</sup>	115	9,933	815	33	2,332	75	151	81	51	0	6,132	263
Dartmouth C. and Dartmouth Hitchcock Medical Center	116	9,831	2,235	0	2,070	717	412	600	22	0	3,775	0
Rochester Institute of Technology	117	9,802	1,135	0	0	176	2,234	18	0	0	6,239	0
George Washington U.	118	9,612	490	0	2,360	165	277	175	930	17	5,148	50
U.S. Naval Academy	119	9,593	620	579	0	823	1,084	0	0	0	6,487	0
Georgetown U.	120	9,589	1,343	0	7,755	0	0	0	491	0	0	0
Emory U.	121	9,227	118	69	6,137	240	2,225	0	22	0	351	65
U. Oklahoma, Norman and Health Science Center	122	9,113	0	610	2,284	0	587	0	347	0	5,285	0

TABLE 60

**Federally financed higher education R&D expenditures, financed by the Department of Defense, ranked by DOD R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	DOD R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Texas Health Science Center, Houston	123	9,075	0	0	9,075	0	0	0	0	0	0	0
U. Texas, Arlington	124	8,786	0	0	148	0	1,747	153	0	0	6,738	0
Northern Arizona U.	125	8,665	0	0	4,973	0	48	181	0	0	3,463	0
SUNY, Stony Brook U.	126	8,461	2,861	88	1,534	621	1,153	0	0	88	2,116	0
Worcester Polytechnic Institute	127	8,391	987	0	0	407	52	0	0	0	6,945	0
Tufts U.	128	8,350	288	0	2,938	3,042	130	84	0	384	1,484	0
Clemson U.	129	8,213	327	0	490	374	17	0	0	0	7,005	0
U. Kentucky	130	8,186	674	6	4,640	0	147	103	0	0	2,233	383
Washington State U.	131	8,013	795	503	2,198	266	1,600	267	59	0	2,325	0
U. Texas Southwestern Medical Center	132	7,868	0	0	7,868	0	0	0	0	0	0	0
Drexel U.	133	7,806	448	0	1,464	0	0	20	0	0	5,874	0
U. Texas Health Science Center, San Antonio	134	7,457	0	0	7,457	0	0	0	0	0	0	0
New Mexico Institute of Mining and Technology	135	7,389	5,398	1	0	0	157	0	0	0	1,743	90
U. Alabama, Tuscaloosa	136	7,238	174	51	0	0	179	99	63	0	6,420	252
U. Missouri, Kansas City	137	7,061	101	0	167	0	332	0	0	0	6,461	0
U. Kansas	138	7,043	778	516	1,975	175	20	584	246	0	2,344	405
Missouri State U.	139	7,034	6	0	89	0	0	0	105	0	6,834	0
U. Nevada, Reno	140	7,009	1,218	24	4,282	60	258	0	116	0	970	81
U. California, Riverside	141	7,006	818	0	1,421	0	502	321	0	0	3,944	0
U. South Carolina, Columbia	142	6,963	40	247	1,127	331	0	0	259	0	4,888	71
U. Nebraska, Lincoln	143	6,907	591	149	36	4	2,927	88	5	0	3,107	0
U. Mississippi	144	6,843	0	0	1,230	0	3,345	0	0	0	2,213	55
Old Dominion U.	145	6,609	127	25	692	10	144	0	117	0	5,158	336
Texas Tech U.	146	6,600	0	283	507	33	304	56	0	0	5,148	269
Temple U.	147	6,587	62	0	3,649	0	1,350	0	65	0	923	538
U. Rhode Island	148	6,546	0	1,957	80	0	65	0	106	440	3,898	0
U. Texas, El Paso	149	6,445	350	82	413	2	56	0	0	0	5,542	0
U. Texas Medical Branch	150	6,352	0	0	6,352	0	0	0	0	0	0	0
U. Nebraska, Medical Center	151	6,314	0	0	6,314	0	0	0	0	0	0	0
Missouri U. of Science and Technology	152	6,147	113	0	46	0	401	91	0	0	5,496	0





TABLE 60

**Federally financed higher education R&D expenditures, financed by the Department of Defense, ranked by DOD R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	DOD R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
National Defense U.	184	3,786	0	0	400	0	0	0	2,186	0	0	1,200
Florida Institute of Technology	185	3,776	1,252	120	191	0	154	305	0	0	1,754	0
Cleveland State U.	186	3,769	0	0	1,902	0	186	0	0	0	1,681	0
Texas State U.	187	3,690	70	886	1,350	45	797	0	300	0	222	20
U. Maryland, Baltimore County	188	3,678	1,857	0	121	0	524	0	0	0	1,152	24
U. North Carolina, Charlotte	189	3,599	166	0	324	196	482	273	298	0	1,844	16
U. Arkansas, Little Rock	190	3,589	1,812	0	1,704	0	0	0	73	0	0	0
Lehigh U.	191	3,372	348	0	158	0	0	0	0	0	2,842	24
Syracuse U.	192	3,257	44	0	238	0	981	0	0	0	1,449	545
Rockefeller U.	193	3,185	0	328	2,857	0	0	0	0	0	0	0
Thomas Jefferson U.	194	3,110	0	0	3,055	0	0	0	0	0	55	0
Boise State U.	195	2,926	143	0	311	97	1,481	0	83	0	811	0
Scripps Research Institute	196	2,871	0	0	2,871	0	0	0	0	0	0	0
U. Tennessee, Health Science Center	197	2,837	0	0	2,837	0	0	0	0	0	0	0
U. Oregon	198	2,699	573	0	372	0	1,391	199	89	0	0	75
U. Vermont	199	2,653	497	0	1,524	176	73	0	0	0	383	0
Howard U.	200	2,624	124	0	491	0	118	56	0	0	1,835	0
North Carolina Agricultural and Technical State U.	201	2,554	272	0	0	98	15	0	0	0	2,090	79
U. West Florida	202	2,443	1,229	0	69	0	0	78	0	0	61	1,006
U. Louisiana, Lafayette	203	2,436	97	0	2,267	0	0	0	0	0	35	37
U. North Dakota	204	2,424	515	408	347	0	0	129	0	0	1,025	0
U. Massachusetts, Dartmouth	205	2,344	0	1,376	49	90	0	0	0	0	829	0
Portland State U.	206	2,333	190	109	121	213	0	203	0	0	1,377	120
Louisiana Tech U.	207	2,323	359	0	17	10	3	171	0	0	1,753	10
Rutgers, State U. New Jersey, Newark	208	2,290	1,610	641	0	0	0	0	0	0	0	39
U. Guam	209	2,241	0	166	2,075	0	0	0	0	0	0	0
South Dakota School of Mines and Technology	210	2,202	0	0	0	82	215	0	0	0	1,905	0
Medical U. South Carolina	211	2,091	0	0	2,091	0	0	0	0	0	0	0
U. Wyoming	212	2,087	363	4	1,350	0	0	0	9	4	346	11
CUNY, City C.	213	1,993	98	0	425	0	555	0	0	0	883	32
SUNY, Upstate Medical U.	214	1,914	0	0	1,914	0	0	0	0	0	0	0





TABLE 60

**Federally financed higher education R&D expenditures, financed by the Department of Defense, ranked by DOD R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	DOD R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Citadel Military C. South Carolina	277	777	769	0	8	0	0	0	0	0	0	0
U. Tennessee, Chattanooga	278	740	164	0	0	0	0	0	0	0	576	0
Southern Illinois U., Carbondale	279	739	0	0	648	0	63	0	0	28	0	0
U. North Carolina, Wilmington	280	735	168	14	128	0	0	0	12	0	0	413
U. Northern Iowa	281	733	0	0	0	0	733	0	0	0	0	0
U. North Texas, Health Science Center	282	724	0	0	724	0	0	0	0	0	0	0
Rosalind Franklin U. of Medicine and Science	283	718	0	0	718	0	0	0	0	0	0	0
U. of the Incarnate Word	284	715	0	0	516	0	60	0	0	0	139	0
Loyola U., Chicago	285	704	0	0	704	0	0	0	0	0	0	0
U. of Health Sciences and Pharmacy in St. Louis	286	699	0	0	699	0	0	0	0	0	0	0
Oakland U.	287	681	187	0	43	0	321	0	0	0	130	0
Texas A&M U.-Kingsville	288	677	0	0	134	0	0	0	0	0	543	0
Savannah State U.	289	671	0	268	87	0	0	0	0	0	316	0
Illinois Institute of Technology	290	669	124	0	6	0	0	0	0	0	539	0
Tennessee Technological U.	291	658	0	0	3	0	0	0	0	0	459	196
American U.	292	647	81	0	0	358	0	14	0	136	0	58
U. New Haven	293	642	484	0	0	0	0	146	0	0	12	0
Van Andel Research Institute	294	636	0	0	636	0	0	0	0	0	0	0
U. North Carolina, Greensboro	295	620	0	0	594	0	0	0	0	0	0	26
California State U., Los Angeles	296	564	0	0	0	0	208	0	0	0	356	0
Tuskegee U.	296	564	0	0	35	0	0	0	360	0	169	0
U. Arkansas, Pine Bluff	298	553	0	0	77	0	476	0	0	0	0	0
Bryn Mawr C.	299	551	0	0	0	0	0	0	0	0	0	551
Northern Illinois U.	300	547	0	0	0	0	26	380	139	0	2	0
U. Colorado Denver <sup>C</sup>	301	535	0	0	0	0	125	0	0	0	408	2
California State U., Northridge	302	528	0	142	0	46	281	0	0	0	59	0
U. Washington, Bothell	303	505	41	0	92	0	0	0	0	0	269	103
Xavier U. Louisiana	304	503	99	0	0	0	404	0	0	0	0	0
Wesleyan U.	305	501	0	0	0	112	210	179	0	0	0	0
Towson U.	306	466	24	396	0	0	46	0	0	0	0	0

TABLE 60

## Federally financed higher education R&amp;D expenditures, financed by the Department of Defense, ranked by DOD R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	DOD R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Fisk U.	307	463	0	0	0	0	463	0	0	0	0	0
Fayetteville State U.	308	447	304	0	0	0	0	0	0	0	143	0
U. North Carolina, general administration	309	408	13	0	12	0	0	11	0	0	306	66
Eastern Virginia Medical School	310	406	0	0	406	0	0	0	0	0	0	0
Seton Hall U.	311	396	0	0	0	0	396	0	0	0	0	0
U. Denver	312	395	0	0	49	0	0	0	161	0	0	185
Rush U.	313	388	0	0	388	0	0	0	0	0	0	0
Clark Atlanta U.	314	386	0	0	107	0	279	0	0	0	0	0
U. Texas, Tyler	315	379	0	0	379	0	0	0	0	0	0	0
U. Nevada, Las Vegas	316	377	0	0	85	0	199	3	0	0	90	0
Claflin U.	317	342	0	0	342	0	0	0	0	0	0	0
California State U., Chico	318	308	0	0	0	0	0	0	45	0	261	2
Southern U. and A&M C., Baton Rouge	319	303	190	0	0	0	10	0	0	0	103	0
U. Puerto Rico, Rio Piedras	320	292	0	0	0	120	172	0	0	0	0	0
Brandeis U.	321	270	267	0	0	0	0	0	0	0	3	0
Austin Peay State U.	322	263	0	136	127	0	0	0	0	0	0	0
Marquette U.	323	261	0	0	0	0	0	0	0	0	261	0
U. Hawaii, Hilo	324	253	0	131	122	0	0	0	0	0	0	0
New York Institute of Technology	325	251	0	0	0	0	0	0	0	0	251	0
U. South Dakota	326	250	0	0	250	0	0	0	0	0	0	0
U. North Florida	327	245	25	0	0	0	0	0	0	0	145	75
Kennesaw State U.	328	242	90	0	18	0	0	13	0	0	121	0
Santa Clara U.	329	234	0	0	0	0	0	0	0	0	234	0
Texas A&M U.-Corpus Christi	330	229	0	127	20	0	0	0	0	0	82	0
Catholic U. of America	331	225	0	0	26	0	88	0	0	0	111	0
California State U., Fullerton	332	224	0	0	0	20	0	73	0	0	131	0
Meharry Medical C.	333	219	0	0	219	0	0	0	0	0	0	0
Northeast Ohio Medical U.	334	218	0	0	218	0	0	0	0	0	0	0
Dillard U.	335	205	0	0	0	0	205	0	0	0	0	0
Bowie State U.	336	202	202	0	0	0	0	0	0	0	0	0
West Chester U. Pennsylvania	337	199	0	0	142	0	0	0	0	0	0	57



TABLE 60

**Federally financed higher education R&D expenditures, financed by the Department of Defense, ranked by DOD R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	DOD R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
CUNY, Baruch C.	368	109	0	0	10	0	0	38	61	0	0	0
Framingham State U.	369	108	i 0 i	0 i	0 i	0 i	108 i	0 i	0 i	0 i	0 i	0 i
U. Texas Health Science Center, Tyler	370	107	0	0	107	0	0	0	0	0	0	0
U. Wisconsin-Platteville	370	107	i 8 i	0 i	8 i	2 i	8 i	0 i	10 i	0 i	68 i	3 i
Louisiana State U., Health Sciences Center, Shreveport	372	105	0	0	105	0	0	0	0	0	0	0
Morehouse C.	373	104	104	0	0	0	0	0	0	0	0	0
CUNY, Queens C.	374	99	0	0	0	0	99	0	0	0	0	0
Lafayette C.	374	99	46	0	53	0	0	0	0	0	0	0
Smith C.	374	99	99	0	0	0	0	0	0	0	0	0
Claremont Graduate U.	377	94	0	0	0	84	0	0	10	0	0	0
New School	378	93	0	0	0	0	0	93	0	0	0	0
Pennsylvania State U., Behrend	379	92	0	0	0	0	12	0	0	0	80	0
Texas Tech U., Health Sciences Center, El Paso	380	90	0	0	90	0	0	0	0	0	0	0
Keck Graduate Institute	381	83	i 0 i	0 i	36 i	0 i	0 i	0 i	0 i	0 i	45 i	2 i
U. of St. Thomas (MN)	382	82	0	0	0	0	0	0	0	0	82	0
Oregon Institute of Technology	383	80	i 8 i	1 i	8 i	3 i	0 i	0 i	0 i	0 i	60 i	0 i
Pepperdine U.	384	78	0	0	78	0	0	0	0	0	0	0
Yeshiva U.	384	78	0	0	78	0	0	0	0	0	0	0
U. Washington, Tacoma	386	77	44	33	0	0	0	0	0	0	0	0
Alabama State U.	387	73	0	0	0	0	0	0	0	0	73	0
Mercyhurst U.	388	71	i 23 i	1 i	21 i	6 i	19 i	1 i	0 i	0 i	0 i	0 i
Sam Houston State U.	388	71	0	0	0	0	68	0	0	0	0	3
U. Missouri, Saint Louis	388	71	0	0	71	0	0	0	0	0	0	0
Connecticut C.	391	69	0	0	0	0	69	0	0	0	0	0
U. Michigan, Dearborn	392	68	0	0	0	68	0	0	0	0	0	0
C. Wooster	393	66	i 0 i	0 i	0 i	0 i	66 i	0 i	0 i	0 i	0 i	0 i
Lawrence Technological U.	393	66	54	0	0	0	0	0	0	0	0	12
North Carolina Central U.	395	63	0	0	0	0	61	0	0	0	2	0
Texas Christian U.	395	63	0	0	29	0	0	0	0	0	8	26
Loma Linda U.	397	62	0	0	62	0	0	0	0	0	0	0
CUNY, Lehman C.	398	61	0	0	0	0	61	0	0	0	0	0



TABLE 60

## Federally financed higher education R&amp;D expenditures, financed by the Department of Defense, ranked by DOD R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	DOD R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Williams C.	398	61	0	0	0	5	56	0	0	0	0	0
Bowling Green State U.	400	60	0	22	0	0	0	0	0	0	0	38
U. Central Oklahoma	400	60	0	0	0	0	0	0	0	60	0	0
Claremont McKenna C.	402	59	0	0	0	0	59	0	0	0	0	0
Alcorn State U.	403	58	0	0	0	0	0	0	0	0	58	0
Oklahoma State U., Center for Health Sciences	404	57	0	0	57	0	0	0	0	0	0	0
New York Medical C.	405	54	0	0	54	0	0	0	0	0	0	0
Sonoma State U.	406	53	0	0	53	0	0	0	0	0	0	0
Grambling State U.	407	50	0	0	0	0	50	0	0	0	0	0
Hofstra U.	408	45	45	0	0	0	0	0	0	0	0	0
Bucknell U.	409	43	0	0	0	28	0	0	0	0	15	0
Harvey Mudd C.	409	43	0	0	0	0	43	0	0	0	0	0
Long Island U.	411	39	0	0	39	0	0	0	0	0	0	0
Marshall B. Ketchum U.	411	39	0	0	39	0	0	0	0	0	0	0
St. John's U., New York	411	39	0	0	0	0	39	0	0	0	0	0
Christopher Newport U.	414	38	0	0	0	0	0	0	0	0	38	0
Clark U.	415	37	0	0	0	0	37	0	0	0	0	0
Middlebury C.	416	36	36	0	0	0	0	0	0	0	0	0
U. Hartford	416	36	0	0	0	0	0	0	3	0	33	0
U. Detroit Mercy	418	35	0	0	0	0	0	0	0	0	35	0
Indiana U. Pennsylvania	419	34	34	0	0	0	0	0	0	0	0	0
U. Northern Colorado	419	34	0	0	34	0	0	0	0	0	0	0
Azusa Pacific U.	421	32	0	0	32	0	0	0	0	0	0	0
Idaho State U.	422	27	0	0	4	0	0	0	0	0	23	0
Edward Via C. of Osteopathic Medicine	423	26	0	0	26	0	0	0	0	0	0	0
Northland C.	423	26	0	0	25	1	0	0	0	0	0	0
U. Wisconsin-La Crosse	423	26	0	0	0	0	0	0	26	0	0	0
Ball State U.	426	25	0	0	0	0	0	0	0	0	0	25
Appalachian State U.	427	24	0	0	24	0	0	0	0	0	0	0
Rhode Island C.	427	24	24	0	0	0	0	0	0	0	0	0
Saint Joseph's U.	429	20	0	0	0	0	0	0	20	0	0	0

TABLE 60

**Federally financed higher education R&D expenditures, financed by the Department of Defense, ranked by DOD R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	DOD R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. of Mary Washington	430	19	19	0	0	0	0	0	0	0	0	0
Albany State U.	431	18	0	0	0	0	0	0	0	0	0	18
Eastern Michigan U.	431	18	0	0	0	0	18	0	0	0	0	0
Roger Williams U.	433	17	0	0	0	0	0	0	0	0	17	0
Monmouth U.	434	16	0	0	16	0	0	0	0	0	0	0
CUNY, John Jay C. of Criminal Justice	435	15	0	0	0	0	0	0	0	0	0	15
CUNY, York C.	435	15	0	0	0	0	15	0	0	0	0	0
James Madison U.	435	15	0	0	0	0	0	0	0	0	15	0
Vassar C.	435	15	0	0	0	0	0	15	0	0	0	0
U. Central Arkansas	439	14	14	0	0	0	0	0	0	0	0	0
U. Houston-Downtown	439	14	14	0	0	0	0	0	0	0	0	0
C. Charleston	441	9	0	0	9	0	0	0	0	0	0	0
Loyola Marymount U.	441	9	0	0	0	0	0	0	0	0	0	9
U. North Georgia	441	9	9	0	0	0	0	0	0	0	0	0
Franklin W. Olin C. of Engineering	444	8	0	0	0	0	0	0	0	0	8	0
U. Alaska, Southeast	445	6	0	0	6	0	0	0	0	0	0	0
Winthrop U.	445	6	6	0	0	0	0	0	0	0	0	0
Canisius C.	447	4	0	0	0	0	0	0	0	4	0	0
Western Kentucky U.	447	4	0	0	0	0	0	4	0	0	0	0
Arkansas State U., Jonesboro	449	3	0	0	0	0	3	0	0	0	0	0
C. of Saint Benedict	449	3 i	0 i	0 i	2 i	0 i	1 i	0 i	0 i	0 i	0 i	0 i
California State U., Channel Islands	451	2	0	0	2	0	0	0	0	0	0	0
Texas Woman's U.	451	2	0	0	2	0	0	0	0	0	0	0
Barnard C.	453	1	0	0	0	0	0	0	1	0	0	0
U. Wisconsin-Stevens Point	453	1	0	0	0	0	1	0	0	0	0	0

i = imputed.

DOD = Department of Defense; nec = not elsewhere classified; S&amp;E = science and engineering.

<sup>a</sup> Johns Hopkins University includes the Applied Physics Laboratory, with \$1,343,292 thousand in R&D expenditures financed by DOD in FY 2021.<sup>b</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.<sup>c</sup> The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of

Colorado Denver and Anschutz Medical Campus.

<sup>d</sup> The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

**Note(s):**

Institutions reporting zero expenditures in ranked total for FY 2021 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2021.

TABLE 61

## Federally financed higher education R&amp;D expenditures, financed by the Department of Energy, ranked by DOE R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	DOE R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
All institutions	-	2,218,358	57,159	111,482	239,568	9,301	794,714	1,173	10,741	27,183	959,702	7,335
Michigan State U.	1	108,509	83	182	18,485	314	83,064	0	38	0	6,343	0
U. Illinois, Urbana-Champaign	2	84,115	3,915	573	43,362	121	9,808	575	85	86	25,298	292
U. Rochester	3	83,975	0	0	199	0	81,072	0	0	0	2,704	0
U. Wisconsin-Madison	4	75,231	628	1,961	30,543	0	14,902	0	0	117	27,080	0
Massachusetts Institute of Technology	5	71,739	1,369	1,121	0	41	39,373	0	187	181	29,467	0
U. Tennessee, Knoxville	6	56,425	4,443	265	3,338	142	7,799	0	8	3,891	35,519	1,020
U. Texas, Austin	7	52,059	1,533	6,361	3,416	985	11,021	261	0	0	28,003	479
U. California, Berkeley	8	42,232	0	1,642	5,350	555	14,328	0	207	3,478	16,672	0
U. Michigan, Ann Arbor	9	42,146	18	145	1,602	0	8,237	0	0	0	32,144	0
U. Utah	10	40,128	1,707	25,191	0	0	4,363	0	0	0	8,843	24
U. California, Los Angeles	11	38,905	47	1,856	2,791	222	12,918	0	70	10,886	10,115	0
Texas A&M U., College Station and Health Science Center	12	37,592	56	1,499	4,153	62	8,782	0	281	0	22,753	6
U. Washington, Seattle	13	37,322	118	2,628	3,618	307	17,586	0	0	0	12,836	229
North Carolina State U.	14	36,753	540	152	1,488	142	5,262	0	12	0	29,157	0
Pennsylvania State U., University Park and Hershey Medical Center	15	36,453	359	3,653	4,467	347	5,204	49	697	0	21,562	115
Iowa State U.	16	33,990	503	1,133	2,982	340	14,655	0	0	102	14,275	0
U. North Dakota	17	30,942	7	100	0	0	64	0	0	0	30,771	0
Purdue U., West Lafayette	18	29,314	769	0	3,151	132	5,259	0	224	0	19,577	202
Stanford U.	19	28,660	787	1,512	1,413	0	7,217	0	0	0	17,731	0
Northwestern U.	20	28,064	1,056	83	3,341	0	11,195	0	3,260	38	9,091	0
U. Colorado Boulder	21	27,891	471	2,637	616	159	9,957	0	0	80	13,971	0
Ohio State U.	22	26,674	483	656	1,244	0	6,718	0	294	199	17,080	0
Washington State U.	23	24,402	239	1,527	2,139	12	10,941	0	127	244	8,899	274
U. California, San Diego	24	24,307	35	885	142	0	16,635	0	29	1,226	5,355	0
Virginia Polytechnic Institute and State U.	25	24,072	692	147	308	199	3,456	0	0	0	19,270	0
Princeton U.	26	22,575	89	618	1,958	0	11,681	0	0	0	8,229	0
U. Minnesota, Twin Cities	27	22,531	133	35	1,745	0	12,906	0	117	0	7,556	39
U. Maryland <sup>a</sup>	28	22,459	1,841	1,172	1,213	0	6,646	0	65	0	11,522	0
California Institute of Technology	29	22,422	291	1,761	0	0	19,717	0	0	0	653	0

TABLE 61

**Federally financed higher education R&D expenditures, financed by the Department of Energy, ranked by DOE R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	DOE R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Columbia U. in the City of New York	30	21,961	1,026	1,062	141	0	7,747	0	0	0	11,985	0
Cornell U.	31	21,928	186	281	1,406	0	12,340	0	0	0	7,619	96
SUNY, Stony Brook U.	32	21,913	348	1,847	414	487	11,797	0	0	2,263	4,757	0
Colorado School of Mines	33	20,880	258	804	758	72	5,250	0	608	0	13,064	66
Arizona State U.	34	20,543	0	118	2,981	125	3,688	0	355	1,838	11,438	0
Georgia Institute of Technology	35	20,533	215	632	124	0	618	0	0	0	18,384	560
Carnegie Mellon U.	36	17,358	1,760	0	0	0	4,635	0	10	0	10,953	0
Colorado State U., Fort Collins	37	17,255	0	2,945	3,107	36	3,520	0	60	15	7,572	0
U. Florida	38	16,708	342	159	3,444	33	5,557	0	0	0	7,125	48
U. California, Irvine	39	16,481	0	2,057	1,671	0	9,347	0	0	0	3,406	0
Harvard U.	40	16,476	445	105	3,212	0	11,465	0	0	0	1,249	0
U. California, Davis	41	16,347	1,013	115	4,596	0	4,188	0	232	0	6,150	53
Duke U.	42	16,169	19	1,056	1,055	54	9,778	0	137	0	4,067	3
Oregon State U.	43	15,532	0	730	2,020	26	1,191	0	0	0	11,565	0
U. Delaware	44	14,132	143	313	712	0	2,390	0	0	532	10,042	0
U. Virginia, Charlottesville	45	13,594	1,002	0	489	0	5,752	0	0	9	6,224	118
U. Notre Dame	46	13,369	7	0	202	5	6,264	0	0	0	6,891	0
West Virginia U.	47	13,023	0	1,193	988	0	1,618	0	55	0	9,108	61
U. Kentucky	48	13,008	0	257	0	0	1,634	0	0	0	11,117	0
U. Georgia	49	13,002	0	72	11,656	82	560	0	296	0	267	69
U. New Mexico	50	12,927	578	317	757	393	1,102	93	71	0	9,450	166
U. California, Santa Barbara	51	12,311	0	444	239	0	4,674	0	0	0	6,954	0
U. Chicago	52	11,983	1,496	695	453	12	5,155	0	13	0	4,159	0
Rensselaer Polytechnic Institute	53	11,968	248	60	0	48	1,341	0	0	53	9,659	559
Johns Hopkins U. <sup>b</sup>	54	11,697	1,175	290	4	130	6,010	0	10	0	4,078	0
Vanderbilt U. and Vanderbilt U. Medical Center	55	11,471	786	0	85	0	1,794	0	0	0	8,806	0
Yale U.	56	10,818	0	0	623	0	7,262	0	0	0	2,933	0
U. Pennsylvania	57	10,770	107	0	231	0	8,497	0	0	0	1,935	0
Rutgers, State U. New Jersey, New Brunswick	58	10,601	239	329	1,588	137	3,962	0	0	0	4,346	0
U. Pittsburgh, Pittsburgh	59	10,401	0	14	100	0	2,318	0	0	0	7,969	0

TABLE 61

**Federally financed higher education R&D expenditures, financed by the Department of Energy, ranked by DOE R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	DOE R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Arizona	60	10,312	490	1,073	2,005	550	3,398	0	23	0	2,731	42
U. Wyoming	61	10,265	248	2,464	3,601	0	145	0	0	3	3,743	61
Florida State U.	62	10,098	36	189	0	65	5,746	0	11	63	3,956	32
U. South Carolina, Columbia	63	9,760	227	34	2,472	151	413	0	845	0	5,576	42
U. Nebraska, Lincoln	64	9,512	0	0	3,268	0	3,297	0	0	0	2,947	0
U. Southern California	65	9,045	2,749	563	862	0	2,531	0	39	0	2,301	0
Kansas State U.	66	9,016	107	0	644	0	5,802	0	0	0	2,463	0
Rice U.	67	8,951	1,167	358	279	87	4,427	0	0	0	2,633	0
U. Alaska, Fairbanks	68	8,845	0	3,243	54	0	67	0	0	272	5,209	0
U. Illinois, Chicago	69	8,289	0	72	891	0	5,142	0	0	0	2,184	0
U. Houston	70	8,249	170	1,217	0	0	1,538	0	0	109	5,065	150
U. North Carolina, Chapel Hill	71	7,609	258	17	530	0	6,795	0	0	0	9	0
New Mexico Institute of Mining and Technology	72	7,422	262	269	99	0	65	0	0	0	6,624	103
U. Missouri, Columbia	73	7,295	271	105	1,558	0	1,660	0	0	0	3,701	0
U. Oklahoma, Norman and Health Science Center	74	7,286	196	1,045	1,617	0	923	0	216	0	3,289	0
New Mexico State U.	75	7,214	211	280	222	0	617	0	0	0	5,884	0
Oklahoma State U., Stillwater	76	7,152	0	758	1,768	0	1,265	0	0	0	3,322	39
Clemson U.	77	7,012	0	0	2,097	0	277	0	0	0	4,638	0
Florida International U.	78	6,963	0	98	0	0	2,407	0	0	0	4,458	0
CUNY, Queens C.	79	6,809	0	83	6,577	0	149	0	0	0	0	0
U. California, Riverside	80	6,803	234	78	380	179	2,907	0	0	0	3,025	0
Brown U.	81	6,729	0	0	0	681	3,561	0	40	216	1,677	554
U. Maine	82	6,709	0	144	8	0	1,004	0	0	0	5,553	0
Washington U., Saint Louis	83	6,708	20	382	902	0	2,085	0	0	0	3,319	0
U. Connecticut	84	6,529	0	0	552	3	1,960	0	0	0	4,014	0
U. Central Florida	85	6,503	90	1,484	0	56	866	0	119	0	3,888	0
U. Oregon	86	6,447	3,588	79	174	0	2,572	0	0	0	0	34
Auburn U., Auburn	87	6,372	132	0	617	0	2,250	0	10	0	3,363	0
Louisiana State U., Baton Rouge	88	6,240	0	19	397	0	4,069	0	0	0	1,755	0
U. Massachusetts, Amherst	89	6,227	16	130	636	21	3,327	0	0	0	2,097	0
Boston U.	90	6,138	539	228	735	0	2,365	0	0	0	2,271	0

TABLE 61

**Federally financed higher education R&D expenditures, financed by the Department of Energy, ranked by DOE R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	DOE R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Indiana U., Bloomington	91	6,110	0	383	515	0	4,717	0	293	0	202	0
Missouri U. of Science and Technology	92	6,096	86	0	0	0	146	0	0	0	5,864	0
U. Arkansas, Fayetteville	93	5,961	56	533	95	0	691	0	0	0	4,586	0
U. Texas, San Antonio	94	5,954	3,418	0	6	0	911	0	46	0	1,520	53
Michigan Technological U.	95	5,838	0	669	0	0	19	0	46	0	5,104	0
Mississippi State U.	96	5,816	0	0	629	0	650	0	0	0	4,537	0
U. Alabama, Tuscaloosa	97	5,763	0	5	7	0	1,857	0	0	0	3,894	0
Desert Research Institute	98	5,701	0	5,701	0	0	0	0	0	0	0	0
U. Hawaii, Manoa	99	5,551	25	1,435	61	0	2,928	0	0	804	298	0
U. Nevada, Reno	100	5,542	449	427	0	0	1,525	0	70	39	3,032	0
SUNY, U. Buffalo	101	5,514	150	0	135	104	436	0	0	0	4,687	2
Case Western Reserve U.	102	5,500	63	0	33	0	1,806	0	0	0	3,588	10
U. Idaho	103	5,409	202	106	2,444	0	287	51	37	0	2,274	8
Boise State U.	104	5,341	22	150	105	0	2,676	0	20	0	2,365	3
Catholic U. of America	105	5,338	0	0	0	0	5,338	0	0	0	0	0
Texas Tech U.	106	5,014	55	617	65	0	939	0	0	0	3,338	0
U. California, Santa Cruz	107	4,963	218	464	0	0	4,244	0	0	0	37	0
Brigham Young U., Provo	108	4,949	0	48	0	0	539	0	0	0	4,362	0
Illinois Institute of Technology	109	4,859	300	0	57	0	2,151	0	0	0	2,351	0
Utah State U.	110	4,773	0	41	377	0	870	0	0	0	3,485	0
Lehigh U.	111	4,508	0	21	0	0	592	0	122	0	3,773	0
Northeastern U.	112	4,453	63	0	0	0	2,543	0	0	0	1,847	0
U. Kansas	113	4,326	6	633	0	1	2,127	0	2	0	1,557	0
Old Dominion U.	114	4,215	189	305	0	85	2,836	0	0	0	800	0
U. Texas, Dallas	115	4,106	0	0	0	0	551	23	0	0	3,532	0
New York U.	116	4,065	350	0	680	612	1,834	0	0	0	589	0
Montana State U., Bozeman	117	3,941	0	551	1,288	0	1,116	0	0	0	954	32
Temple U.	118	3,864	498	84	189	138	2,423	0	0	0	532	0
George Washington U.	119	3,772	317	0	38	0	1,910	0	364	0	1,143	0
U. Dayton	120	3,748	13	0	0	0	0	0	0	0	3,735	0
Dartmouth C. and Dartmouth Hitchcock Medical Center	121	3,534	75	0	101	0	405	0	0	0	2,804	149

TABLE 61

## Federally financed higher education R&amp;D expenditures, financed by the Department of Energy, ranked by DOE R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	DOE R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Alabama, Birmingham	122	3,487	84	188	575	0	754	0	0	0	1,886	0
U. Massachusetts, Lowell	123	3,302	21	0	0	0	1,220	0	0	0	2,061	0
U. North Carolina, Charlotte	124	3,259	66	0	0	0	5	0	0	0	3,188	0
U. New Hampshire	125	3,234	0	987	241	0	817	0	361	0	828	0
U. Iowa	126	3,135	0	0	3	0	2,897	0	0	0	235	0
Drexel U.	127	3,060	0	0	133	0	544	0	0	0	2,383	0
U. Cincinnati	128	3,057	0	116	124	0	1,362	0	0	0	1,317	138
U. Nevada, Las Vegas	128	3,057	12	133	156	0	2,053	0	0	0	703	0
Emory U.	130	3,028	0	0	0	129	2,785	0	0	0	114	0
Ohio U.	131	2,936	0	924	0	0	2,001	0	0	0	11	0
U. Toledo	132	2,865	0	74	0	0	1,595	0	0	0	1,196	0
Idaho State U.	133	2,810	71	205	33	0	496	44	38	0	1,896	27
Worcester Polytechnic Institute	134	2,733	0	0	0	0	0	0	0	0	2,733	0
Western Michigan U. and Homer Stryker M.D. School of Medicine	135	2,722	0	37	0	0	41	0	0	0	2,644	0
Tufts U.	136	2,692	0	0	13	0	1,857	0	60	0	762	0
Woods Hole Oceanographic Institution	137	2,625	0	815	0	0	0	0	0	0	1,810	0
U. North Texas, Denton	138	2,567	35	627	947	0	663	0	0	0	295	0
William & Mary	139	2,534	526	82	0	0	1,457	0	0	0	0	469
U. Wisconsin-Milwaukee	140	2,503	0	531	708	0	544	0	0	0	720	0
U. Texas, Arlington	141	2,462	0	189	0	0	2,143	0	0	0	130	0
Northern Illinois U.	142	2,447	268	0	0	0	2,025	0	0	0	154	0
Southern Methodist U.	143	2,355	0	61	0	106	1,167	0	0	0	1,021	0
U. Texas, El Paso	144	2,302	178	118	21	0	619	0	0	0	1,366	0
Syracuse U.	145	2,182	0	47	0	0	780	0	0	0	1,180	175
U. California, Merced	146	2,170	560	74	0	31	926	0	0	0	579	0
Wayne State U.	147	2,072	0	0	0	0	1,694	0	0	0	378	0
U. South Florida <sup>c</sup>	148	2,054	22	0	0	0	695	0	0	0	1,136	201
Virginia Commonwealth U.	149	2,032	250	0	62	0	647	0	28	0	1,045	0
Rochester Institute of Technology	150	1,970	128	0	0	0	667	0	0	0	1,175	0
Northern Arizona U.	151	1,889	81	174	1,338	0	138	0	0	0	85	73
Central Michigan U.	152	1,793	0	0	0	0	1,793	0	0	0	0	0



TABLE 61

## Federally financed higher education R&amp;D expenditures, financed by the Department of Energy, ranked by DOE R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	DOE R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
South Dakota School of Mines and Technology	153	1,764	0	0	0	0	906	0	0	0	858	0
U. Louisiana, Lafayette	154	1,758	0	0	0	0	0	0	0	0	1,758	0
U. Louisville	155	1,752	0	0	0	0	225	0	0	0	1,527	0
Tennessee Technological U.	156	1,709	20	0	0	0	163	0	0	0	1,526	0
CUNY, City C.	157	1,694	0	0	0	0	472	0	0	0	1,222	0
Kent State U.	158	1,679	84	27	35	0	1,097	0	0	0	436	0
Stevens Institute of Technology	159	1,673	67	0	0	0	0	0	0	0	1,606	0
Florida A&M U.	160	1,649	0	292	0	0	1,219	0	0	0	138	0
Tuskegee U.	161	1,645	0	0	1,645	0	0	0	0	0	0	0
Georgia State U.	162	1,477	0	94	0	0	1,383	0	0	0	0	0
U. Vermont	163	1,429	0	0	0	0	50	0	0	0	1,379	0
U. South Alabama	164	1,326	0	0	0	0	170	0	0	0	1,156	0
SUNY, Binghamton U.	165	1,289	0	0	0	0	791	0	32	0	466	0
Portland State U.	166	1,288	0	109	25	0	0	0	0	0	1,154	0
Cold Spring Harbor Laboratory	167	1,279	0	0	1,279	0	0	0	0	0	0	0
North Carolina Agricultural and Technical State U.	168	1,270	170	0	0	0	12	0	0	0	1,088	0
U. South Carolina, Aiken	169	1,261	0	0	0	0	4	0	0	0	1,257	0
Brandeis U.	170	1,185	0	0	0	0	1,185	0	0	0	0	0
U. Maryland, Baltimore County	171	1,182	167	135	27	0	853	0	0	0	0	0
San Diego State U.	172	1,148	0	139	445	0	298	0	0	0	266	0
SUNY, Polytechnic Institute	173	1,140	0	0	0	0	0	0	0	0	1,140	0
New Jersey Institute of Technology	174	1,106	393	0	0	0	73	0	0	0	523	117
U. Rhode Island	175	1,096	0	0	602	0	307	0	0	88	99	0
Hampton U.	176	1,075	0	0	119	344	581	0	0	0	31	0
U. Tulsa	177	1,029	72	0	0	0	0	0	0	0	957	0
SUNY, U. Albany	178	1,015	0	312	0	0	259	0	0	0	444	0
George Mason U.	179	1,002	126	64	0	0	329	0	0	0	483	0
Naval Postgraduate School	180	983	58	437	0	5	48	0	367	0	0	68
Tennessee State U.	181	934	0	0	29	0	0	0	0	0	905	0
Boston C.	182	929	0	0	0	0	929	0	0	0	0	0
U. Miami	183	918	0	425	0	0	227	0	0	0	266	0

TABLE 61

## Federally financed higher education R&amp;D expenditures, financed by the Department of Energy, ranked by DOE R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	DOE R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Norfolk State U.	184	897	897	0	0	0	0	0	0	0	0	0
Baylor U.	185	890	0	74	112	24	568	0	0	0	112	0
Indiana U.-Purdue U., Indianapolis	186	831	39	0	0	0	0	0	0	0	658	134
U. Alabama, Huntsville	187	816	0	447	0	0	180	0	0	0	146	43
Marquette U.	188	811	0	0	0	0	135	0	0	0	676	0
CUNY, Hunter C.	189	784	0	0	0	0	784	0	0	0	0	0
South Carolina State U.	190	778	i	0	i	0	170	i	0	i	0	0
U. California, San Francisco	191	764	0	0	385	0	379	0	0	0	0	0
Bowling Green State U.	192	739	0	0	66	0	657	16	0	0	0	0
U. Mississippi	193	674	0	0	0	0	674	0	0	0	0	0
Illinois State U.	194	660	0	0	660	0	0	0	0	0	0	0
Abilene Christian U.	195	638	0	0	0	0	638	0	0	0	0	0
U. of the District of Columbia	196	636	0	0	0	0	0	0	0	0	636	0
West Texas A&M U.	197	631	0	114	0	0	0	0	0	0	517	0
South Dakota State U.	198	628	0	0	91	0	0	0	0	0	537	0
Pace U.	199	626	0	0	0	0	0	0	0	0	626	0
Prairie View A&M U.	200	595	0	0	0	0	595	0	0	0	0	0
California State U., East Bay	201	565	0	0	0	0	565	0	0	0	0	0
U. Montana, Missoula	202	559	188	284	24	0	63	0	0	0	0	0
North Dakota State U.	203	556	0	0	0	0	101	0	0	0	427	28
Florida Institute of Technology	204	537	0	0	0	0	537	0	0	0	0	0
California Polytechnic State U., San Luis Obispo	205	525	0	5	49	0	276	0	0	0	195	0
Florida Atlantic U.	206	519	0	0	0	0	0	0	0	0	519	0
U. Michigan, Dearborn	207	516	0	0	0	0	0	0	0	0	516	0
Tulane U.	208	509	0	0	0	36	364	0	0	0	109	0
U. Maryland Center for Environmental Science	209	493	0	10	483	0	0	0	0	0	0	0
San Jose State U.	210	488	0	122	54	85	140	0	0	0	69	18
North Carolina Central U.	211	485	0	0	0	0	485	0	0	0	0	0
U. Tennessee, Chattanooga	212	477	0	0	0	0	0	0	0	143	334	0
SUNY, Geneseo	213	457	0	0	0	0	457	0	0	0	0	0
Wake Forest U.	214	416	0	0	0	0	371	0	0	0	45	0



TABLE 61

## Federally financed higher education R&amp;D expenditures, financed by the Department of Energy, ranked by DOE R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	DOE R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Christopher Newport U.	246	195	0	0	0	0	195	0	0	0	0	0
Southern Illinois U., Carbondale	247	192	0	0	11	0	115	0	0	0	66	0
Texas State U.	248	188	158	0	30	0	0	0	0	0	0	0
U. Memphis	248	188	0	24	0	0	0	0	0	0	164	0
Montana Technological U.	250	187	0	0	0	0	0	0	0	0	187	0
Alfred U.	251	178	0	0	0	0	0	0	0	0	178	0
U.S. Naval Academy	252	175	0	0	0	0	139	0	0	0	36	0
Florida Polytechnic U.	253	173	0	0	0	0	0	0	0	0	173	0
Indiana U. Pennsylvania	254	171	0	0	0	0	171	0	0	0	0	0
Air Force Institute of Technology	255	167	0	0	0	0	167	0	0	0	0	0
California State U., Long Beach	256	158	0	9	0	0	149	0	0	0	0	0
U. Texas Health Science Center, Tyler	257	157	0	0	157	0	0	0	0	0	0	0
CUNY, York C.	258	154	0	29	0	0	125	0	0	0	0	0
Wright State U.	259	151	32	0	0	0	17	0	0	0	102	0
Missouri State U.	260	148	0	0	0	0	148	0	0	0	0	0
Texas Christian U.	261	146	0	121	25	0	0	0	0	0	0	0
U. Colorado Colorado Springs	262	144	0	0	0	0	0	0	0	0	144	0
Clafin U.	263	141	141	0	0	0	0	0	0	0	0	0
Clark U.	264	134	0	0	89	0	45	0	0	0	0	0
U. Minnesota, Duluth	265	133	0	0	0	0	20	0	0	0	113	0
Rhode Island C.	266	129	0	0	0	0	129	0	0	0	0	0
Cleveland State U.	267	127	0	0	0	0	0	0	0	0	127	0
Scripps Research Institute	267	127	0	0	127	0	0	0	0	0	0	0
Lewis and Clark C.	269	126	0	126	0	0	0	0	0	0	0	0
Texas A&M U.-Commerce	270	118	0	0	0	0	118	0	0	0	0	0
CUNY, Lehman C.	271	117	0	0	0	0	117	0	0	0	0	0
Pennsylvania State U., Behrend	272	116	0	0	0	0	0	0	0	0	116	0
U. Colorado Denver <sup>d</sup>	273	109	0	0	83	0	26	0	0	0	0	0
Coastal Carolina U.	274	107	70	37	0	0	0	0	0	0	0	0
Oakland U.	274	107	17	0	21	0	66	0	0	0	3	0
U. New Orleans	276	104	62	0	0	0	42	0	0	0	0	0
U. Northern Iowa	276	104	0	0	0	0	104	0	0	0	0	0

TABLE 61

## Federally financed higher education R&amp;D expenditures, financed by the Department of Energy, ranked by DOE R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	DOE R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields				
Marshall U.	278	102	0	73	0	0	27	0	0	0	0	2				
U. Massachusetts, Dartmouth	278	102	0	0	0	0	66	0	0	0	36	0				
Southern U. and A&M C., Baton Rouge	280	100	100	0	0	0	0	0	0	0	0	0				
U. North Florida	281	84	0	0	0	0	62	0	0	0	22	0				
Virginia State U.	282	79	0	0	0	0	0	0	0	0	79	0				
U. Richmond	283	78	0	0	0	0	78	0	0	0	0	0				
U. Alaska, Southeast	284	77	0	0	77	0	0	0	0	0	0	0				
Arkansas State U., Jonesboro	285	75	0	0	0	0	0	0	0	0	75	0				
Liberty U.	285	75	0	0	0	0	0	0	0	0	75	0				
Fort Lewis C.	287	74	0	0	0	0	0	0	0	0	74	0				
James Madison U.	287	74	0	74	0	0	0	0	0	0	0	0				
U. North Carolina, Wilmington	287	74	0	0	0	0	0	0	0	0	74	0				
Georgia Southern U.	290	72	0	0	0	0	0	0	0	0	72	0				
Rutgers, State U. New Jersey, Camden	290	72	11	0	0	61	0	0	0	0	0	0				
U. Hawaii, Hilo	290	72	0	0	72	0	0	0	0	0	0	0				
Drake U.	293	70	0	0	70	0	0	0	0	0	0	0				
U. New Haven	294	69	0	0	0	0	0	0	0	0	69	0				
California State U., Fullerton	295	66	0	0	0	0	0	0	0	0	66	0				
U. Wisconsin-Eau Claire	296	65	0	0	0	0	65	0	0	0	0	0				
U. Denver	297	62	0	0	0	0	0	0	0	0	62	0				
Texas A&M U.-Corpus Christi	298	61	0	0	0	0	0	0	0	0	61	0				
Fisk U.	299	59	0	0	16	0	43	0	0	0	0	0				
California State Polytechnic U., Pomona	300	58	0	0	0	0	0	0	0	0	58	0				
Albany State U.	301	57	0	0	57	0	0	0	0	0	0	0				
New School	301	57	0	0	0	0	0	0	0	0	57	0				
Indiana State U.	303	56	0	0	0	0	56	0	0	0	0	0				
Lamar U.	304	55	0	0	0	0	0	0	0	0	55	0				
Fordham U.	305	53	0	0	53	0	0	0	0	0	0	0				
U. Texas Rio Grande Valley	305	53	0	0	0	0	10	0	0	0	43	0				
U. Wisconsin-Green Bay	305	53	i	1	i	6	i	3	i	0	18	i	0	i	1	i
U. Alaska, Anchorage	308	52	0	0	0	0	20	0	0	0	32	0				
Bowie State U.	309	49	0	0	0	0	49	0	0	0	0	0				



TABLE 61

## Federally financed higher education R&amp;D expenditures, financed by the Department of Energy, ranked by DOE R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	DOE R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
American U.	341	16	0	0	0	0	16	0	0	0	0	0
U. Massachusetts, Boston	341	16	0	0	0	0	16	0	0	0	0	0
U. Wisconsin-Platteville	341	16 i	0 i	0 i	11 i	0 i	2 i	0 i	0 i	0 i	3 i	0 i
Western Kentucky U.	344	15	0	0	0	0	15	0	0	0	0	0
Clark Atlanta U.	345	14	5	0	0	0	9	0	0	0	0	0
Oregon Institute of Technology	345	14 i	0 i	0 i	12 i	0 i	0 i	0 i	0 i	0 i	2 i	0 i
West Virginia State U.	345	14	0	0	14	0	0	0	0	0	0	0
California State U., Fresno	348	12	0	0	0	0	12	0	0	0	0	0
CUNY, John Jay C. of Criminal Justice	348	12	0	0	0	0	0	12	0	0	0	0
U. California, Office of the President	348	12	0	0	12	0	0	0	0	0	0	0
Oregon Health and Science U.	351	10	0	0	9	0	0	0	0	0	1	0
Savannah State U.	352	9	0	0	0	0	0	0	0	0	9	0
C. Charleston	353	7	0	0	7	0	0	0	0	0	0	0
Louisiana Tech U.	354	6	0	0	0	0	0	0	0	0	6	0
Appalachian State U.	355	4	0	0	4	0	0	0	0	0	0	0
Delaware State U.	356	3	0	0	0	3	0	0	0	0	0	0
Keck Graduate Institute	356	3 i	0 i	0 i	1 i	0 i	0 i	0 i	0 i	0 i	2 i	0 i
California State U., Chico	358	2	0	0	0	0	0	0	0	0	2	0
Rhode Island School of Design	358	2 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	2 i
Calvin U.	360	1 i	0 i	0 i	0 i	0 i	1 i	0 i	0 i	0 i	0 i	0 i
Northwest Indian C.	360	1 i	0 i	1 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i

i = imputed.

DOE = Department of Energy; nec = not elsewhere classified; S&amp;E = science and engineering.

<sup>a</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

<sup>b</sup> Johns Hopkins University includes the Applied Physics Laboratory, with \$1,095 thousand in R&D expenditures financed by DOE in FY 2021.

<sup>c</sup> The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

<sup>d</sup> The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

**Note(s):**

Institutions reporting zero expenditures in ranked total for FY 2021 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2021.



**TABLE 62**  
**Federally financed higher education R&D expenditures, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	HHS R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
All institutions	-	27,532,379	139,417	53,852	24,181,089	68,098	642,915	584,427	407,047	104,218	1,028,791	322,525
Johns Hopkins U. <sup>a</sup>	1	722,250	6,828	7,474	652,317	504	4,459	4,476	8	501	45,630	53
U. Washington, Seattle	2	694,428	1,712	1,978	614,581	1,492	12,601	5,412	2,760	0	27,430	26,462
U. Pennsylvania	3	663,458	836	0	621,813	1,731	8,756	4,770	4,392	0	18,376	2,784
Columbia U. in the City of New York	4	642,785	566	961	588,392	97	7,080	2,913	126	0	20,836	21,814
Duke U.	5	634,171	686	0	573,622	1,810	4,863	4,460	16,290	0	32,012	428
U. California, San Francisco	6	630,137	0	0	600,492	0	29,288	0	0	357	0	0
U. Pittsburgh, Pittsburgh	7	623,521	2,149	5,887	577,410	567	3,906	14,154	1,529	1,378	13,369	3,172
U. Michigan, Ann Arbor	8	608,464	1,833	67	511,610	748	9,329	4,666	57,801	41	20,197	2,172
U. North Carolina, Chapel Hill	9	603,949	12,276	694	534,000	912	8,157	11,766	13,802	0	11,974	10,368
Stanford U.	10	599,239	596	51	548,039	1,372	22,176	8,964	891	0	17,088	62
Yale U.	11	562,251	141	0	541,460	346	7,596	4,694	479	0	7,078	457
Washington U., Saint Louis	12	547,520	241	0	505,131	68	9,838	4,626	75	0	10,467	17,074
U. California, Los Angeles	13	529,539	1,553	32	489,858	363	9,466	9,077	3,632	3,073	9,220	3,265
Icahn School of Medicine at Mount Sinai	14	525,054	0	0	525,054	0	0	0	0	0	0	0
Vanderbilt U. and Vanderbilt U. Medical Center	15	497,479	186	0	460,589	73	10,658	5,362	14	0	16,228	4,369
Emory U.	16	484,428	47	1,619	464,811	337	5,556	4,000	209	0	7,146	703
New York U.	17	466,971	1,138	0	430,973	1,541	6,567	17,937	1,072	0	1,824	5,919
Harvard U.	18	456,919	4,007	14,376	367,430	13,595	12,617	1,553	24,305	100	17,819	1,117
U. California, San Diego	19	446,030	625	3,235	383,343	0	17,428	7,209	3,288	0	30,153	749
Northwestern U.	20	432,853	0	0	401,106	0	7,148	1,910	5,170	3,190	13,894	435
U. Minnesota, Twin Cities	21	390,774	1,273	208	331,763	558	6,231	15,966	13,445	87	17,836	3,407
U. Wisconsin-Madison	22	374,530	159	16	306,994	171	8,869	4,582	19,447	19,789	13,152	1,351
U. Southern California	23	367,995	7,387	0	305,972	50	2,106	3,124	32,909	0	9,849	6,598
U. Alabama, Birmingham	24	360,322	0	0	349,634	0	191	4,727	156	0	4,386	1,228
Cornell U.	25	350,981	623	0	309,021	74	19,410	2,897	1,823	0	16,298	835
U. Maryland <sup>b</sup>	26	345,707	1,951	411	303,904	148	3,909	6,558	7,512	10	12,962	8,342
U. Colorado Anschutz Medical Campus <sup>c</sup>	27	334,018	0	212	332,038	0	300	20	73	0	800	575
Ohio State U.	28	331,043	375	92	292,112	352	6,740	4,342	2,320	5,396	7,108	12,206

**TABLE 62**  
**Federally financed higher education R&D expenditures, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	HHS R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Boston U.	29	327,940	25	0	279,292	2,070	8,754	11,486	283	248	23,466	2,316
Oregon Health and Science U.	30	316,461	0	0	306,102	0	0	0	0	0	10,359	0
Baylor C. of Medicine	31	310,596	0	0	310,596	0	0	0	0	0	0	0
Case Western Reserve U.	32	303,061	500	0	284,526	148	1,365	853	2,186	54	13,315	114
U. Chicago	33	291,465	9,246	0	254,007	603	12,144	2,692	5,119	0	5,132	2,522
U. Cincinnati	34	273,764	0	0	267,568	56	985	2,761	661	0	1,230	503
Scripps Research Institute	35	264,863	0	0	264,863	0	0	0	0	0	0	0
Indiana U., Bloomington	36	252,908	899	0	234,552	367	5,764	4,342	2,824	588	2,133	1,439
U. Texas Southwestern Medical Center	37	245,041	0	0	245,041	0	0	0	0	0	0	0
U. Massachusetts, Medical School	38	240,425	0	0	240,425	0	0	0	0	0	0	0
U. California, Davis	39	236,989	0	24	209,455	253	5,407	1,017	9,120	0	11,633	80
U. Florida	40	230,824	1,270	377	203,430	342	3,121	9,232	1,274	0	10,214	1,564
U. Utah	41	223,690	4,136	2	199,777	430	3,796	1,685	1,714	0	5,558	6,592
U. Iowa	42	218,208	1,127	0	200,208	0	1,030	8,038	439	0	4,726	2,640
Rutgers, State U. New Jersey, New Brunswick	43	214,876	25	79	203,330	556	1,445	2,603	109	0	5,185	1,544
Albert Einstein C. of Medicine	44	209,219	0	0	209,219	0	0	0	0	0	0	0
Texas A&M U., College Station and Health Science Center	45	205,735	1,080	2,161	179,376	756	4,377	2,938	4,650	490	9,100	807
U. Texas M. D. Anderson Cancer Center	46	201,426	0	0	179,538	7,731	8,107	2,854	3,196	0	0	0
U. Rochester	47	193,162	119	0	176,631	0	2,142	3,906	0	4,697	5,593	74
U. Virginia, Charlottesville	48	189,567	575	0	170,578	0	5,602	3,848	84	90	6,456	2,334
U. Illinois, Chicago	49	185,421	801	0	169,185	23	3,727	1,053	704	202	7,805	1,921
U. Arizona	50	176,003	209	0	163,929	380	3,839	1,998	1,311	7	4,099	231
U. New Mexico	51	175,996	40	0	169,201	15	466	4,533	880	0	586	275
U. Miami	52	166,311	198	752	155,606	0	0	8,130	446	0	1,179	0
Wake Forest U.	53	164,756	0	0	164,082	47	211	35	0	0	351	30
U. California, Irvine	54	161,431	1,375	0	139,739	473	4,685	1,671	710	0	8,167	4,611
U. Kentucky	55	158,314	0	0	147,249	748	1,450	2,776	629	411	4,782	269

**TABLE 62**  
**Federally financed higher education R&D expenditures, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	HHS R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Texas Health Science Center, Houston	56	149,561	0	0	149,561	0	0	0	0	0	0	0
Pennsylvania State U., University Park and Hershey Medical Center	57	149,293	1,302	670	100,790	3,023	4,385	20,564	3,947	0	11,102	3,510
Medical U. South Carolina	58	149,024	0	0	149,024	0	0	0	0	0	0	0
Massachusetts Institute of Technology	59	138,517	7,679	344	61,466	0	14,609	49	1,096	413	52,853	8
Brown U.	60	138,141	2,327	120	98,661	575	632	7,550	19,374	6,027	2,523	352
U. California, Berkeley	61	137,347	57	812	90,254	345	7,763	7,065	2,612	21,140	7,233	66
U. Kansas	62	129,732	31	0	106,483	0	5,049	6,001	416	0	1,990	9,762
Medical C. Wisconsin	63	127,031	0	0	123,669	0	0	0	0	0	3,362	0
Virginia Commonwealth U.	64	125,394	122	0	102,773	18	459	8,174	308	0	3,888	9,652
Temple U.	65	123,600	195	0	110,025	166	2,372	6,168	741	0	1,551	2,382
George Washington U.	66	121,841	146	0	114,853	45	624	1,868	374	330	3,279	322
SUNY, U. Buffalo	67	116,929	25	0	102,544	189	1,542	2,725	784	491	8,463	166
Dartmouth C. and Dartmouth Hitchcock Medical Center	68	114,245	661	186	93,863	278	2,173	6,909	67	0	9,780	328
U. Texas, Austin	69	110,282	1,382	9	65,688	415	4,224	6,663	9,853	199	12,188	9,661
U. Texas Medical Branch	70	109,569	0	0	109,144	0	0	0	0	0	425	0
U. Connecticut	71	106,354	630	62	89,382	37	1,525	8,958	1,636	0	3,173	951
U. South Florida <sup>d</sup>	72	106,347	86	0	89,298	0	2,223	1,056	9,045	0	4,151	488
Thomas Jefferson U.	73	106,020	0	0	106,020	0	0	0	0	0	0	0
U. Nebraska, Medical Center	74	100,663	0	0	100,663	0	0	0	0	0	0	0
Georgetown U.	75	98,623	29	0	92,615	0	1,152	696	3,279	0	0	852
Wayne State U.	76	95,588	96	0	81,481	0	5,572	1,434	224	608	1,445	4,728
Tulane U.	77	95,521	0	250	90,743	40	336	1,083	445	0	2,529	95
U. Texas Health Science Center, San Antonio	78	94,870	0	0	94,870	0	0	0	0	0	0	0
Rockefeller U.	79	91,791	0	0	88,321	70	3,400	0	0	0	0	0
U. Georgia	80	91,326	24	0	73,510	263	1,747	13,408	0	0	1,522	852
California Institute of Technology	81	88,419	210	0	62,803	0	11,041	0	0	0	10,005	4,360
Tufts U.	82	86,649	0	0	67,793	495	3,999	750	345	4,100	8,855	312
U. Illinois, Urbana-Champaign	83	85,578	1,114	2	38,521	0	12,969	4,679	232	19	22,629	5,413

**TABLE 62**  
**Federally financed higher education R&D expenditures, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	HHS R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Michigan State U.	84	84,853	305	7	65,751	1,495	3,966	5,695	996	110	5,266	1,262
SUNY, Stony Brook U.	85	81,821	672	0	66,721	1,584	3,322	3,548	204	365	4,691	714
U. Missouri, Columbia	86	80,698	911	0	70,495	39	938	3,360	0	0	2,083	2,872
U. Oklahoma, Norman and Health Science Center	87	79,772	169	22	71,369	0	4,848	1,483	173	0	1,682	26
U. Arkansas for Medical Sciences	88	78,995	0	0	78,995	0	0	0	0	0	0	0
U. Louisville	89	78,321	14	0	71,114	212	471	475	1	6	2,680	3,348
Purdue U., West Lafayette	90	73,697	721	0	47,869	764	5,994	5,750	956	0	9,893	1,750
Rush U.	91	72,659	0	0	70,292	0	0	2,367	0	0	0	0
U. Vermont	92	71,695	0	0	68,961	0	657	1,511	14	0	482	70
Arizona State U.	93	62,883	650	2	36,836	802	3,154	4,801	3,577	803	8,632	3,626
Washington State U.	94	62,084	680	7	49,091	0	1,393	2,703	3,234	237	961	3,778
U. Colorado Boulder	95	59,581	390	0	34,272	434	778	11,298	3,547	556	8,206	100
Drexel U.	96	58,955	680	0	49,822	0	0	1,142	58	2	4,306	2,945
Augusta U.	97	58,641	0	0	58,553	0	0	88	0	0	0	0
Princeton U.	98	56,755	1,082	155	43,389	178	5,318	598	2,827	0	3,208	0
Colorado State U., Fort Collins	99	55,483	0	28	41,968	293	1,702	2,025	2,389	4,103	2,887	88
U. South Carolina, Columbia	100	55,385	370	2	43,124	103	14	4,372	5,624	0	439	1,337
U. Mississippi	101	55,055	0	0	54,687	0	154	0	19	0	0	195
Georgia State U.	102	53,947	509	0	33,273	624	4,177	2,580	8,141	0	0	4,643
U. Tennessee, Health Science Center	103	52,273	0	0	52,273	0	0	0	0	0	0	0
Georgia Institute of Technology	104	50,559	5,503	0	6,139	429	4,723	702	858	0	32,082	123
Cold Spring Harbor Laboratory	105	47,891	0	0	47,891	0	0	0	0	0	0	0
U. Hawaii, Manoa	106	47,305	0	107	46,014	0	83	228	86	70	59	658
U. Delaware	107	46,023	1,370	0	21,554	0	6,226	5,768	1,280	582	8,055	1,188
Northeastern U.	108	45,318	1,924	14	15,328	0	6,980	6,365	648	0	13,555	504
U. California, Santa Cruz	109	44,933	0	3,136	10,093	0	5,782	6	30	0	25,886	0
U. Oregon	110	44,837	0	33	26,454	0	1,665	14,665	39	0	0	1,981
North Carolina State U.	111	42,874	490	1,350	22,276	2,398	4,687	217	1,507	733	9,092	124
West Virginia U.	112	41,751	53	60	38,037	22	1,273	1,501	43	0	724	38
Cleveland State U.	113	41,691	0	0	36,059	57	127	0	200	0	5,216	32

**TABLE 62**  
**Federally financed higher education R&D expenditures, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	HHS R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Virginia Polytechnic Institute and State U.	114	40,865	259	0	33,319	312	856	442	639	10	4,959	69
SUNY, U. Albany	115	40,527	0	0	36,862	0	2,038	1,028	336	0	263	0
Florida State U.	116	39,153	289	0	24,362	639	3,194	5,015	564	539	1,845	2,706
Carnegie Mellon U.	117	38,510	12,741	83	7,724	686	1,886	5,609	1,058	375	8,300	48
U. Massachusetts, Amherst	118	38,102	1,302	0	22,841	934	5,045	4,373	303	310	2,812	182
U. Houston	119	37,957	119	0	17,621	50	2,257	4,835	2	1,059	9,516	2,498
Louisiana State U., Baton Rouge	120	37,089	0	504	33,859	0	1,711	8	21	0	604	382
U. California, Riverside	121	37,048	46	430	27,156	481	4,488	1,827	303	708	1,435	174
Florida International U.	122	36,876	628	0	16,022	0	3,244	14,889	383	0	1,710	0
U. Montana, Missoula	123	36,299	739	0	26,543	39	4,864	467	27	0	0	3,620
Saint Louis U.	124	34,263	0	0	32,825	162	961	76	0	0	83	156
Brandeis U.	125	33,748	108	0	21,614	0	5,126	2,870	4,002	0	0	28
Louisiana State U., Health Sciences Center, New Orleans	126	32,938	0	0	32,938	0	0	0	0	0	0	0
U. Puerto Rico, Medical Sciences Campus	127	30,815	0	0	30,815	0	0	0	0	0	0	0
Oregon State U.	128	30,530	0	101	26,687	159	529	24	538	0	2,177	315
U. North Texas, Health Science Center	129	29,933	0	0	29,933	0	0	0	0	0	0	0
U. Nevada, Reno	130	29,519	0	0	24,931	4	845	3,051	0	0	471	217
U. Nebraska, Lincoln	131	27,311	0	0	12,967	42	2,977	4,343	4,647	0	2,259	76
San Diego State U.	132	27,182	0	0	13,720	0	1,196	11,466	18	0	0	782
U. Notre Dame	133	27,114	229	0	8,253	123	9,591	2,851	32	2,034	3,691	310
SUNY, Downstate Health Sciences U.	134	26,289	0	0	26,289	0	0	0	0	0	0	0
U. Texas, Dallas	135	25,506	108	0	11,496	202	2,211	1,640	27	0	9,822	0
Howard U.	136	24,932	0	0	18,219	0	4,032	777	204	0	1,164	536
Morehouse School of Medicine	137	24,533	0	0	24,533	0	0	0	0	0	0	0
Montana State U., Bozeman	138	23,707	0	0	15,780	526	2,522	84	93	3,238	1,362	102
U. New Hampshire	139	23,219	16	0	14,639	0	86	177	6,950	0	372	979
Iowa State U.	140	23,135	77	0	17,204	0	1,534	15	113	0	4,013	179
SUNY, Upstate Medical U.	141	22,895	0	0	22,895	0	0	0	0	0	0	0

**TABLE 62**  
**Federally financed higher education R&D expenditures, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	HHS R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Rice U.	142	22,430	1,377	0	4,004	993	1,539	1,771	29	0	12,717	0
Loyola U., Chicago	143	22,428	90	0	20,809	0	148	630	39	0	0	712
Van Andel Research Institute	144	21,365	0	0	21,365	0	0	0	0	0	0	0
U. Rhode Island	145	20,897	40	54	15,799	0	125	1,752	299	2,681	147	0
CUNY, Hunter C.	146	19,542	1,023	0	4,292	161	2,682	9,974	0	0	0	1,410
U. Louisiana, Lafayette	147	18,940	71	12	18,797	0	0	0	0	0	16	44
U. Central Florida	148	18,835	611	0	11,867	0	692	1,719	174	0	3,081	691
Indiana U.-Purdue U., Indianapolis	149	18,586	309	0	10,578	31	648	3,270	721	968	1,664	397
Ponce Health Sciences U.	150	18,284	0	0	16,996	0	0	1,288	0	0	0	0
Boston C.	151	16,891	243	0	7,042	0	4,924	1,312	49	0	0	3,321
U. California, Santa Barbara	152	16,720	127	338	7,863	0	4,135	1,162	12	0	2,971	112
U. Denver	153	16,284	0	0	2,591	0	1,674	4,573	0	0	608	6,838
U. North Dakota	154	16,119	0	0	15,600	0	107	196	0	0	155	61
Auburn U., Auburn	155	15,778	0	0	10,511	0	287	328	2,653	0	1,679	320
Kansas State U.	156	15,633	0	0	11,941	0	948	1,963	9	119	559	94
U. Maryland, Baltimore County	157	15,208	182	57	6,310	0	1,008	833	5,781	0	1,002	35
Clemson U.	158	15,079	0	0	6,939	16	764	239	94	0	7,026	1
George Mason U.	159	15,039	469	44	5,839	186	303	635	4,182	0	3,051	330
U. Wyoming	160	14,768	0	0	13,957	663	0	0	0	148	0	0
U. Toledo	161	14,760	0	44	11,954	0	2,025	114	4	0	570	49
U. Texas, El Paso	162	14,720	0	0	9,043	675	2,437	1,077	338	0	529	621
U. Texas, San Antonio	163	14,320	95	0	9,942	0	1,579	447	492	0	1,557	208
U. Massachusetts, Lowell	164	13,709	1,976	0	4,757	0	659	123	2,016	0	4,082	96
Meharry Medical C.	165	13,310	0	0	13,310	0	0	0	0	0	0	0
Albany Medical C.	166	13,006	0	0	13,006	0	0	0	0	0	0	0
East Carolina U.	167	12,999	0	0	11,921	0	694	59	17	0	234	74
U. South Alabama	168	12,786	2	127	12,251	46	23	281	0	0	56	0
Louisiana State U., Health Sciences Center, Shreveport	169	12,110	0	0	12,110	0	0	0	0	0	0	0
Rensselaer Polytechnic Institute	170	11,882	304	0	2,972	164	1,068	6	0	0	6,547	821
Illinois Institute of Technology	171	11,865	23	0	7,114	0	51	0	0	0	4,677	0
U. Texas Health Science Center, Tyler	172	11,743	0	0	11,743	0	0	0	0	0	0	0

**TABLE 62**  
**Federally financed higher education R&D expenditures, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	HHS R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Syracuse U.	173	11,713	300	0	3,167	0	2,049	1,695	1,527	0	746	2,229
U. Alabama, Tuscaloosa	174	11,545	83	0	3,605	0	969	2,177	149	0	1,052	3,510
U. Missouri, Kansas City	175	11,302	0	0	11,082	0	118	102	0	0	0	0
New Jersey Institute of Technology	176	11,135	147	0	7,228	59	324	0	0	0	3,343	34
CUNY, Graduate School of Public Health and Health Policy	177	11,078	0	0	10,068	0	0	1,010	0	0	0	0
Portland State U.	178	11,037	0	0	7,888	144	692	641	243	0	0	1,429
Uniformed Services U. of the Health Sciences	179	10,751	0	0	10,751	0	0	0	0	0	0	0
Texas Tech U., Health Sciences Center	180	10,565	0	0	10,550	0	0	0	0	0	0	15
Northern Arizona U.	181	10,356	0	0	9,813	0	115	0	0	12	366	50
U. Texas, Arlington	182	10,353	22	0	6,494	308	1,310	41	0	0	1,847	331
New York Medical C.	183	10,230	0	0	10,230	0	0	0	0	0	0	0
U. North Carolina, Greensboro	184	10,068	29	0	4,108	0	2,426	1,990	323	0	0	1,192
U. Massachusetts, Boston	185	10,062	304	0	3,623	70	406	1,116	1,451	0	63	3,029
U. Memphis	186	10,023	1,259	2	3,703	0	335	1,227	937	0	376	2,184
CUNY, City C.	187	9,780	0	0	5,231	0	1,329	0	0	0	3,220	0
Northeast Ohio Medical U.	188	9,712	0	0	9,710	0	0	0	2	0	0	0
U. Tennessee, Knoxville	189	9,647	0	0	6,168	0	802	834	440	233	956	214
Utah State U.	190	9,357	0	0	5,700	0	599	2,123	164	0	398	373
Xavier U. Louisiana	191	9,353	480	0	1,812	0	6,953	0	0	0	3	105
Oklahoma State U., Stillwater	192	9,313	4	0	5,931	0	148	2,205	60	0	589	376
U. Wisconsin-Milwaukee	193	9,238	0	99	3,993	0	235	2,713	1,662	0	524	12
San Francisco State U.	194	9,172	27	9	6,516	0	344	144	1,067	824	203	38
U. Nevada, Las Vegas	195	9,163	0	0	8,059	0	678	0	34	195	6	191
Mississippi State U.	196	9,107	0	0	4,613	0	299	171	3,608	124	292	0
Marshall U.	197	9,011	0	0	8,951	0	0	0	0	0	0	60
U. Idaho	198	8,987	0	0	8,763	0	0	0	15	52	92	65
Florida Atlantic U.	199	8,977	412	0	5,915	48	689	1,006	37	0	734	136
SUNY, Binghamton U.	200	8,792	14	0	1,384	0	1,983	4,167	0	0	1,153	91
Loma Linda U.	201	8,751	0	0	8,079	0	0	595	0	0	0	77

**TABLE 62**  
**Federally financed higher education R&D expenditures, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	HHS R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Charles R. Drew U. of Medicine and Science	202	8,664	0	0	8,664	0	0	0	0	0	0	0
Rosalind Franklin U. of Medicine and Science	203	8,443	0	0	8,152	0	0	291	0	0	0	0
Rutgers, State U. New Jersey, Newark	204	8,362	165	0	6,969	0	302	352	0	0	0	574
Marquette U.	205	8,237	130	0	4,853	349	869	168	0	0	1,686	182
Rowan U.	206	8,228	0	0	5,971	10	208	608	0	3	1,428	0
New Mexico State U.	207	8,028	0	0	7,092	0	346	109	4	0	477	0
U. Alaska, Fairbanks	208	7,990	0	11	6,774	47	0	0	587	0	0	571
California State U., Northridge	209	7,537	0	42	2,044	0	4,586	177	370	12	137	169
U. South Dakota	210	7,429	0	0	6,822	0	17	461	0	0	41	88
Brigham Young U., Provo	211	7,274	0	0	3,611	0	1,418	174	16	0	1,818	237
East Tennessee State U.	212	7,220	0	0	7,187	0	0	14	0	0	0	19
North Dakota State U.	213	7,105	0	0	5,351	14	515	685	149	147	238	6
Eastern Virginia Medical School	214	6,998	0	0	6,998	0	0	0	0	0	0	0
Lehigh U.	215	6,853	125	0	3,520	0	1,261	71	38	0	1,812	26
Ohio U.	216	6,824	202	0	5,808	0	357	173	0	0	283	1
Kent State U.	217	6,795	0	0	2,930	0	425	2,059	673	12	87	609
North Carolina Central U.	218	6,676	0	0	5,699	0	0	0	0	0	654	323
Creighton U.	219	6,626	i 38 i	0 i	6,177 i	17 i	173 i	91 i	75 i	0 i	0 i	55 i
California State U., Long Beach	220	6,608	81	0	2,233	0	1,918	1,081	257	0	988	50
Wright State U.	221	6,185	362	0	5,073	29	404	97	0	0	220	0
U. Texas Rio Grande Valley	222	6,094	78	0	5,664	0	0	0	0	0	352	0
Wichita State U.	223	6,050	0	0	1,864	0	429	0	0	0	128	3,629
Texas Tech U.	224	5,899	0	0	1,368	0	1,910	802	0	0	1,819	0
U. North Carolina, Charlotte	225	5,850	2,276	85	1,911	94	1,157	41	0	0	205	81
Boise State U.	226	5,834	62	0	2,600	14	140	105	47	8	2,858	0
Morgan State U.	227	5,750	246	0	4,871	0	349	0	0	0	0	284
U. Nebraska, Omaha	228	5,706	26	0	5,097	62	0	278	207	0	0	36
Florida A&M U.	229	5,692	0	4	5,670	0	0	18	0	0	0	0
U. Arkansas, Fayetteville	230	5,622	0	0	1,655	0	839	137	406	0	1,588	997
Southern Illinois U., Carbondale	231	5,445	0	0	4,938	0	334	156	0	17	0	0



**TABLE 62**  
**Federally financed higher education R&D expenditures, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	HHS R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Chapman U.	232	5,195	0	0	4,119	0	53	1,023	0	0	0	0
Rochester Institute of Technology	233	5,029	1,028	0	413	87	240	81	0	0	1,499	1,681
U. Southern Mississippi	234	5,023	0	14	4,766	0	92	118	33	0	0	0
U. California, Merced	235	4,839	0	0	3,112	232	297	54	0	203	941	0
U. Colorado Denver <sup>C</sup>	236	4,799	188	123	734	117	662	706	100	0	1,401	768
Delaware State U.	237	4,739	30	0	4,379	0	0	330	0	0	0	0
U. Puerto Rico, Rio Piedras	238	4,442	0	0	2,182	0	343	7	29	1,865	0	16
Texas State U.	239	4,348	0	0	1,156	0	756	193	1,626	0	24	593
Worcester Polytechnic Institute	240	4,175	400	0	637	197	799	0	0	0	1,865	277
Western U. of Health Sciences	241	4,116	0	0	3,516	0	0	0	0	0	0	600
Old Dominion U.	242	4,053	267	0	1,436	8	419	767	235	0	480	441
Oakland U.	243	4,017	0	0	2,883	0	967	128	0	0	39	0
Tennessee State U.	244	3,904	0	0	3,904	0	0	0	0	0	0	0
South Dakota State U.	245	3,845	0	0	2,648	86	760	297	8	0	21	25
U. Detroit Mercy	246	3,814	0	0	3,670	0	0	42	0	0	0	102
CUNY, Advanced Science Research Center	247	3,800	0	0	3,800	0	0	0	0	0	0	0
Southern Methodist U.	248	3,648	0	0	1,365	252	573	1,132	0	0	99	227
U. Missouri, Saint Louis	249	3,616	57	0	2,663	160	623	55	58	0	0	0
Texas Christian U.	250	3,590	0	0	287	0	167	134	0	2,900	0	102
Nova Southeastern U.	251	3,585	0	35	3,536	0	0	14	0	0	0	0
Baylor U.	252	3,565	40	132	2,167	0	936	262	0	0	0	28
CUNY, Brooklyn C.	253	3,367	0	0	1,136	0	940	1,291	0	0	0	0
U. of Health Sciences and Pharmacy in St. Louis	254	3,364	0	0	3,364	0	0	0	0	0	0	0
California State U., Los Angeles	255	3,288	28	0	334	0	2,905	0	0	0	0	21
North Carolina Agricultural and Technical State U.	256	3,283	6	0	2,273	0	175	115	29	0	317	368
Alabama A&M U.	257	3,182	15	0	2,804	8	101	89	64	0	53	48
U. New England	258	3,163	0	0	3,163	0	0	0	0	0	0	0
Jackson State U.	259	3,130	24	0	2,115	27	727	26	0	3	0	208
U. Alaska, Anchorage	260	3,111	0	0	2,179	0	0	261	583	78	0	10
CUNY, Queens C.	261	3,051	0	0	1,730	0	384	877	60	0	0	0



**TABLE 62**  
**Federally financed higher education R&D expenditures, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	HHS R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
California State U., Fullerton	290	1,850	0	0	1,340	0	0	66	0	444	0	0
Long Island U.	291	1,841	0	0	1,788	0	0	53	0	0	0	0
California Polytechnic State U., San Luis Obispo	292	1,778	21	0	1,650	2	0	0	105	0	0	0
California State U., San Marcos	293	1,751	77	0	167	0	33	420	395	659	0	0
Palmer C. of Chiropractic, Davenport	294	1,733	0	0	1,733	0	0	0	0	0	0	0
Bowling Green State U.	295	1,661	0	318	597	0	0	0	543	0	0	203
Gallaudet U.	296	1,630	1,229	0	368	0	0	0	33	0	0	0
New England C. of Optometry	297	1,623	0	0	1,623	0	0	0	0	0	0	0
Central Michigan U.	298	1,579	0	0	1,182	0	0	111	0	286	0	0
William & Mary	299	1,569	29	51	460	0	812	64	12	0	0	141
American U.	300	1,537	0	0	218	10	28	103	701	299	0	178
Southern Illinois U., Edwardsville	301	1,536	0	0	1,440	0	17	0	0	0	79	0
U. Akron	302	1,525	0	0	25	0	771	33	0	0	696	0
CUNY, Lehman C.	303	1,500	0	0	146	0	1,338	0	16	0	0	0
Barnard C.	304	1,490	44	4	578	0	238	612	14	0	0	0
St. John's U., New York	305	1,458	0	0	1,347	0	67	25	0	0	0	19
Texas Tech U., Health Sciences Center, El Paso	306	1,430	0	0	1,403	0	0	0	0	0	0	27
Tougaloo C.	307	1,422	i 0	i 0	i 1,422	i 0	i 0	i 0	i 0	i 0	i 0	i 0
Ball State U.	308	1,387	0	0	1,027	0	207	0	42	0	0	111
Eastern Michigan U.	309	1,384	0	0	1,329	0	0	0	0	0	0	55
SUNY, Polytechnic Institute	310	1,362	0	0	1,362	0	0	0	0	0	0	0
Touro U.	311	1,356	0	0	1,354	0	0	0	0	0	0	2
Wellesley C.	312	1,332	161	17	667	0	131	223	133	0	0	0
Winston-Salem State U.	313	1,299	0	0	1,080	0	219	0	0	0	0	0
Pennsylvania State U., Harrisburg	314	1,298	0	0	1,239	0	0	59	0	0	0	0
Northern Illinois U.	315	1,275	302	0	426	0	306	218	0	0	23	0
Midwestern U.	316	1,273	0	0	1,273	0	0	0	0	0	0	0
Florida Gulf Coast U.	317	1,237	0	345	892	0	0	0	0	0	0	0
South Carolina State U.	318	1,217	i 0	i 0	i 1,217	i 0	i 0	i 0	i 0	i 0	i 0	i 0
Pacific U.	319	1,213	0	0	1,212	0	0	0	0	0	0	1

**TABLE 62**  
**Federally financed higher education R&D expenditures, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	HHS R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields			
Montclair State U.	320	1,191	0	0	812	0	271	108	0	0	0	0			
Morehouse C.	321	1,180	0	0	0	67	944	0	0	169	0	0			
Texas A&M U.-Kingsville	322	1,176	0	0	933	0	87	48	0	0	108	0			
CUNY, John Jay C. of Criminal Justice	323	1,153	0	0	0	0	182	13	0	2	0	956			
Northern Kentucky U.	324	1,143	0	0	590	0	245	308	0	0	0	0			
Saginaw Valley State U.	325	1,137	i	0	i	0	1,137	i	0	i	0	0	i		
Yeshiva U.	326	1,136	0	0	1,136	0	0	0	0	0	0	0			
U. North Carolina, Asheville	327	1,129	188	0	939	0	0	2	0	0	0	0			
U. Puerto Rico, Cayey	328	1,101	0	0	305	0	65	0	0	731	0	0			
Northwest Indian C.	329	1,096	i	0	i	0	0	i	0	i	1,096	i	0	i	
Northeastern Illinois U.	330	1,084	0	0	1,084	0	0	0	0	0	0	0			
U. of the Sciences Philadelphia	331	1,069	0	0	689	0	380	0	0	0	0	0			
Texas A&M U.-Corpus Christi	332	1,064	0	0	336	0	0	0	0	0	0	728			
Keck Graduate Institute	333	1,038	i	0	i	0	874	i	0	i	0	161	i	3	i
New York Institute of Technology	334	1,027	0	0	1,003	0	0	0	0	0	24	0			
U. Puerto Rico, Mayaguez	335	1,016	0	0	525	0	184	0	0	0	307	0			
Wesleyan U.	336	1,001	0	0	538	0	298	165	0	0	0	0			
U. Louisiana, Monroe	337	994	0	0	984	0	10	0	0	0	0	0			
CUNY, C. Staten Island	338	982	0	0	699	0	145	138	0	0	0	0			
U. of the Virgin Islands	338	982	0	0	855	0	80	0	0	0	47	0			
U. Texas of the Permian Basin	340	962	0	0	962	0	0	0	0	0	0	0			
California State U., Fresno	341	961	0	0	237	13	595	116	0	0	0	0			
U. Central Arkansas	341	961	329	0	227	0	101	0	0	0	0	304			
Alabama State U.	343	942	0	0	942	0	0	0	0	0	0	0			
Middlebury C.	344	939	120	0	404	0	257	158	0	0	0	0			
Kennesaw State U.	345	932	0	0	340	0	0	0	103	472	0	17			
Western Kentucky U.	346	925	0	0	470	0	108	263	55	0	0	29			
Trinity C., Hartford	347	920	0	0	598	0	0	281	41	0	0	0			
U. West Florida	348	912	0	0	300	0	378	0	0	0	0	234			
Georgia Southern U.	349	909	0	0	909	0	0	0	0	0	0	0			
U. Hawaii, Hilo	350	894	0	0	894	0	0	0	0	0	0	0			

**TABLE 62**  
**Federally financed higher education R&D expenditures, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	HHS R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Oklahoma, Tulsa	351	886	0	0	260	0	0	0	0	0	87	539
Morehead State U.	352	885	0	0	721	0	0	0	164	0	0	0
Idaho State U.	353	845	0	0	793	0	0	52	0	0	0	0
Salisbury U.	354	843	0	0	0	0	148	0	0	0	0	695
U. Nebraska, Kearney	355	842	0	0	727	0	90	25	0	0	0	0
U. Colorado Colorado Springs	356	838	0	0	650	0	57	131	0	0	0	0
U. Wisconsin-Oshkosh	357	835	0	0	618	0	217	0	0	0	0	0
Florida Institute of Technology	358	828	0	0	750	0	78	0	0	0	0	0
California State U., Dominguez Hills	359	821	0	0	0	45	317	271	188	0	0	0
Rutgers, State U. New Jersey, Camden	360	801	737	0	0	0	0	0	0	0	0	64
U. Massachusetts, Dartmouth	361	800	0	0	0	0	329	0	0	0	471	0
U. Arkansas, Little Rock	362	782	438	0	21	0	309	0	0	0	0	14
Loyola Marymount U.	363	775	0	0	48	0	104	623	0	0	0	0
U. of the Pacific	364	759	0	0	545	0	0	0	0	0	214	0
Western Carolina U.	364	759	0	0	687	0	0	0	0	0	0	72
Hawaii Pacific U.	366	750	0	0	557	0	0	0	193	0	0	0
Missouri U. of Science and Technology	367	727	0	0	17	0	214	0	0	0	496	0
James Madison U.	368	705	0	0	554	0	0	0	0	0	0	151
Bates C.	369	700	0	0	618	0	31	0	51	0	0	0
Arkansas State U., Jonesboro	370	690	86	0	421	0	143	40	0	0	0	0
Teachers C., Columbia U.	371	668	0	0	346	0	0	322	0	0	0	0
California State U., San Bernardino	372	664	0	0	63	0	98	503	0	0	0	0
Smith C.	373	658	0	0	353	17	69	131	0	0	88	0
Keene State C.	374	654	47	0	405	0	202	0	0	0	0	0
U. Central Oklahoma	375	647	0	0	57	0	590	0	0	0	0	0
Bowdoin C.	376	639	0	0	405	0	111	123	0	0	0	0
U. Nebraska, central administration	377	637	0	0	373	0	0	0	0	0	264	0
Davidson C.	378	632	0	0	48	0	79	505	0	0	0	0

**TABLE 62**  
**Federally financed higher education R&D expenditures, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	HHS R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields	
Santa Clara U.	379	625	0	0	359	0	208	0	0	0	58	0	
Drake U.	380	620	0	0	0	0	0	0	10	0	0	610	
Seton Hall U.	381	607	0	0	607	0	0	0	0	0	0	0	
Grand Valley State U.	382	600	0	0	489	0	111	0	0	0	0	0	
Swarthmore C.	383	592	0	0	176	0	317	0	1	0	50	48	
New Mexico Institute of Mining and Technology	384	580	0	0	122	0	150	0	0	0	288	20	
U. Maryland, Eastern Shore	385	577	0	0	577	0	0	0	0	0	0	0	
Villanova U.	386	572	0	0	402	8	8	0	0	0	154	0	
Franklin and Marshall C.	387	567	0	0	415	47	105	0	0	0	0	0	
Mercyhurst U.	388	562	i	2 i	4 i	520 i	1 i	14 i	7 i	8 i	0 i	0 i	6 i
Augustana U.	389	560	0	0	412	0	138	0	0	0	0	10	
Lamar U.	390	543	0	0	125	0	0	0	0	0	0	418	
National U. of Natural Medicine	391	523	0	0	523	0	0	0	0	0	0	0	
California State Polytechnic U., Pomona	392	504	0	0	504	0	0	0	0	0	0	0	
U. North Carolina, Wilmington	393	503	0	0	205	0	72	212	0	0	0	14	
Edward Via C. of Osteopathic Medicine	394	500	0	0	500	0	0	0	0	0	0	0	
U. Wisconsin-Green Bay	395	475	i	2 i	0 i	422 i	1 i	14 i	12 i	9 i	0 i	9 i	6 i
U. Northern Iowa	396	473	0	0	0	0	0	0	473	0	0	0	
Biola U.	397	463	i	3 i	0 i	426 i	0 i	12 i	6 i	6 i	1 i	6 i	3 i
Spelman C.	398	455	0	0	58	0	98	299	0	0	0	0	
St. Edward's U.	399	450	0	0	0	0	450	0	0	0	0	0	
U. Richmond	400	443	0	0	158	0	0	137	148	0	0	0	
Mount Holyoke C.	401	442	0	0	257	0	13	172	0	0	0	0	
Suffolk U.	402	438	0	0	0	0	0	438	0	0	0	0	
Langston U.	403	434	0	0	434	0	0	0	0	0	0	0	
Texas Woman's U.	403	434	0	0	434	0	0	0	0	0	0	0	
Montana Technological U.	405	428	0	0	305	0	0	0	0	0	123	0	
Desert Research Institute	406	425	0	425	0	0	0	0	0	0	0	0	
West Virginia School of Osteopathic Medicine	407	423	0	0	418	0	0	0	0	0	0	5	

**TABLE 62**  
**Federally financed higher education R&D expenditures, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	HHS R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields	
Savannah State U.	408	419	0	0	178	0	0	0	0	0	241	0	
Reed C.	409	415	i	0	i	0	i	34	i	0	i	0	0
Trinity U.	409	415	0	0	184	0	0	231	0	0	0	0	
Black Hills State U.	411	414	0	0	414	0	0	0	0	0	0	0	
Johnson C. Smith U.	412	406	i	12	i	0	i	261	i	0	i	0	133
U.S. Army War C.	413	405	i	0	i	0	i	0	i	405	i	0	0
C. Charleston	414	403	0	0	341	0	6	0	0	56	0	0	
U. Michigan, Dearborn	415	394	0	0	163	0	0	0	0	0	231	0	
U. Washington, Tacoma	416	385	8	0	203	0	0	0	0	0	174	0	
Fort Lewis C.	417	368	0	0	319	0	25	0	0	0	24	0	
William Paterson U.	418	361	0	0	179	0	0	0	182	0	0	0	
Winthrop U.	419	355	0	0	96	0	95	0	164	0	0	0	
CUNY, Graduate Center	420	354	0	0	0	0	127	0	30	197	0	0	
South Dakota School of Mines and Technology	421	345	0	0	0	0	16	0	0	0	329	0	
Amherst C.	422	341	0	0	316	25	0	0	0	0	0	0	
Fisk U.	423	338	30	0	279	0	29	0	0	0	0	0	
Furman U.	424	331	0	0	297	0	26	8	0	0	0	0	
Toyota Technological Institute, Chicago	425	328	328	0	0	0	0	0	0	0	0	0	
Clark U.	426	325	0	0	325	0	0	0	0	0	0	0	
U. Alabama, Huntsville	427	324	0	0	169	0	8	0	0	0	147	0	
Western Washington U.	428	320	0	0	25	0	225	70	0	0	0	0	
Philadelphia C. of Osteopathic Medicine	429	318	0	0	318	0	0	0	0	0	0	0	
California State U., Bakersfield	430	317	0	0	0	0	0	317	0	0	0	0	
Des Moines U.	431	312	i	0	i	0	i	286	i	0	i	0	26
Middle Tennessee State U.	432	311	0	0	270	0	41	0	0	0	0	0	
Milwaukee School of Engineering	432	311	0	0	0	0	0	0	0	0	311	0	
Clarkson U.	434	310	0	0	191	0	0	0	0	0	119	0	
CUNY, York C.	434	310	0	0	71	0	46	159	0	0	1	33	
U. Baltimore	434	310	0	0	0	0	0	0	148	0	0	162	
Sam Houston State U.	437	304	0	0	234	0	0	50	20	0	0	0	

**TABLE 62**  
**Federally financed higher education R&D expenditures, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	HHS R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Connecticut C.	438	291	65	0	10	0	28	64	124	0	0	0
Ithaca C.	439	286	0	0	187	0	99	0	0	0	0	0
Marshall B. Ketchum U.	439	286	0	0	286	0	0	0	0	0	0	0
Northland C.	439	286	0	0	233	3	0	31	10	0	0	9
Murray State U.	442	283	0	0	201	0	82	0	0	0	0	0
Doane U.	443	279	0	0	279	0	0	0	0	0	0	0
SUNY, C. Plattsburgh	443	279	0	0	279	0	0	0	0	0	0	0
U. Minnesota, Duluth	443	279	0	0	219	10	0	0	0	0	38	12
Southeastern Louisiana U.	446	274	0	0	210	0	64	0	0	0	0	0
CUNY, Baruch C.	447	273	8	0	244	0	0	21	0	0	0	0
Roger Williams U.	447	273	0	139	134	0	0	0	0	0	0	0
Vassar C.	449	269	0	0	27	0	49	193	0	0	0	0
U. Dayton	450	260	0	0	109	0	0	80	0	0	0	71
Pace U.	451	245	0	0	245	0	0	0	0	0	0	0
California State U., Monterey Bay	452	240	0	0	240	0	0	0	0	0	0	0
Clafin U.	453	234	0	0	162	0	72	0	0	0	0	0
Alcorn State U.	454	233	0	0	233	0	0	0	0	0	0	0
U. Wisconsin-Eau Claire	454	233	0	0	0	0	61	172	0	0	0	0
Missouri State U.	456	229	0	0	229	0	0	0	0	0	0	0
Fort Hays State U.	457	227	0	0	73	0	154	0	0	0	0	0
Carleton C.	458	226	0	0	0	0	0	226	0	0	0	0
Manhattan C.	459	221	0	0	0	109	112	0	0	0	0	0
Pepperdine U.	459	221	0	0	93	0	0	100	28	0	0	0
Dillard U.	461	219	0	0	181	0	0	0	38	0	0	0
SUNY, C. of Environmental Science and Forestry	461	219	0	0	219	0	0	0	0	0	0	0
U. Texas, Tyler	463	211	0	0	211	0	0	0	0	0	0	0
Dordt U.	464	205	0	0	205	0	0	0	0	0	0	0
Louisiana Tech U.	465	203	0	0	17	0	14	0	0	0	172	0
Pomona C.	466	200	0	0	42	0	40	118	0	0	0	0
CUNY, New York City C. of Technology	467	198	0	0	198	0	0	0	0	0	0	0
Claremont McKenna C.	468	191	0	0	115	0	0	76	0	0	0	0



**TABLE 62**  
**Federally financed higher education R&D expenditures, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	HHS R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Erikson Institute	469	190	0	0	0	0	0	0	0	0	0	190
Skidmore C.	470	188	0	0	97	0	0	91	0	0	0	0
U. South Carolina, Aiken	471	187	0	0	187	0	0	0	0	0	0	0
Southern Connecticut State U.	472	186	0	0	54	0	0	78	0	0	0	54
U. Washington, Bothell	473	180	15	0	165	0	0	0	0	0	0	0
Southern U. and A&M C., Baton Rouge	474	175	0	0	107	0	38	0	0	0	30	0
SUNY, Geneseo	475	173	0	0	61	0	0	112	0	0	0	0
Williams C.	476	171	0	0	171	0	0	0	0	0	0	0
U. Northern Colorado	477	170	0	3	94	73	0	0	0	0	0	0
Embry-Riddle Aeronautical U.	478	168	0	168	0	0	0	0	0	0	0	0
Western Illinois U.	478	168	0	0	0	0	0	0	168	0	0	0
U. Arkansas, Pine Bluff	480	167	0	0	22	0	145	0	0	0	0	0
Marymount U.	481	163	0	0	163	0	0	0	0	0	0	0
California State U., Channel Islands	482	161	0	0	141	20	0	0	0	0	0	0
Canisius C.	483	160	0	0	0	0	0	0	0	160	0	0
Towson U.	484	158	0	0	52	0	0	106	0	0	0	0
U. Puerto Rico, Humacao	485	157	0	0	86	0	71	0	0	0	0	0
Azusa Pacific U.	486	156	0	0	10	0	0	146	0	0	0	0
Claremont Graduate U.	487	155	0	0	0	0	0	71	71	0	0	13
Colby C.	488	150	0	0	115	0	35	0	0	0	0	0
Macalester C.	489	149	0	0	0	25	124	0	0	0	0	0
U. Illinois, Springfield	490	147	0	0	0	0	0	0	147	0	0	0
Purdue U., Northwest	491	142	0	0	142	0	0	0	0	0	0	0
Southern U. and A&M C., Agricultural Research and Extension Center	492	140	0	0	140	0	0	0	0	0	0	0
Saint Joseph's U.	493	134	0	0	116	0	0	18	0	0	0	0
Oberlin C.	494	132	0	0	125	0	0	7	0	0	0	0
Bucknell U.	495	131	0	0	74	0	26	0	0	0	31	0
Tennessee Technological U.	496	129	0	0	117	0	0	0	12	0	0	0
U. New Orleans	497	128	0	0	71	0	0	0	0	0	0	57





**TABLE 62**  
**Federally financed higher education R&D expenditures, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	HHS R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields				
Prairie View A&M U.	561	30	0	0	28	0	2	0	0	0	0	0				
Rhode Island School of Design	561	30	i	i	0	i	0	i	0	i	25	i	0	i	5	i
Stockton U.	563	25	0	0	25	0	0	0	0	0	0	0				
Franklin W. Olin C. of Engineering	564	23	0	0	0	0	0	0	0	0	23	0				
C. of Saint Benedict	565	19	i	i	0	i	15	i	0	i	2	i	0	i	0	i
U. of St. Thomas (MN)	565	19	0	0	0	0	0	0	0	0	0	19	0			
Kean U.	567	18	0	0	18	0	0	0	0	0	0	0				
West Virginia State U.	568	14	0	0	14	0	0	0	0	0	0	0				
Sonoma State U.	569	12	0	0	12	0	0	0	0	0	0	0				
Indiana State U.	570	8	0	0	8	0	0	0	0	0	0	0				
St. Cloud State U.	571	6	0	0	6	0	0	0	0	0	0	0				
St. Olaf C.	572	5	0	0	5	0	0	0	0	0	0	0				
Albany State U.	573	4	0	0	4	0	0	0	0	0	0	0				
SUNY, C. Brockport	573	4	0	0	4	0	0	0	0	0	0	0				
Union C., Schenectady	573	4	0	0	0	0	0	0	0	0	4	0				
Bowie State U.	576	2	0	0	0	0	2	0	0	0	0	0				
SUNY, Buffalo State	576	2	0	0	0	0	0	0	2	0	0	0				

i = imputed.

HHS = Department of Health and Human Services; nec = not elsewhere classified; S&E = science and engineering.

<sup>a</sup> Johns Hopkins University includes the Applied Physics Laboratory, with \$17,221 thousand in R&D expenditures financed by HHS in FY 2021.

<sup>b</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

<sup>c</sup> The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

<sup>d</sup> The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

**Note(s):**

Institutions reporting zero expenditures in ranked total for FY 2021 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

**Source(s):**  
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2021.

**TABLE 63**  
**Federally financed higher education R&D expenditures, financed by the National Aeronautics and Space Administration, ranked by NASA R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	NASA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
All institutions	-	1,768,703	23,132	453,130	89,649	2,895	588,836	18,586	17,391	6,139	560,071	8,874
Johns Hopkins U. <sup>a</sup>	1	368,276	7,461	47,423	756	348	114,049	0	0	77	198,162	0
U. Colorado Boulder	2	148,496	216	34,161	420	98	44,358	0	10	0	69,202	31
U. Maryland <sup>b</sup>	3	70,478	10	20,364	522	0	38,535	0	8,066	590	2,391	0
California Institute of Technology	4	57,283	0	11,068	651	0	44,600	0	0	0	715	249
U. Arizona	5	57,082	0	2,010	1,226	2	51,058	0	0	0	2,786	0
Arizona State U.	6	52,725	103	44,943	717	0	226	0	2,726	76	3,861	73
U. California, Berkeley	7	41,499	0	582	634	0	37,799	0	2	1,637	845	0
Utah State U.	8	40,570	0	0	500	0	661	0	0	0	39,409	0
U. Oklahoma, Norman and Health Science Center	9	37,080	0	35,968	68	0	863	0	0	0	181	0
Massachusetts Institute of Technology	10	36,195	218	7,041	128	17	17,945	0	0	810	9,979	57
U. Alabama, Huntsville	11	28,939	3,749	11,696	13	0	5,842	0	0	0	7,639	0
U. Michigan, Ann Arbor	12	27,565	0	464	262	94	2,924	13	947	0	22,861	0
U. California, Los Angeles	13	26,042	0	19,942	319	0	2,887	0	287	0	2,607	0
U. Maryland, Baltimore County	14	25,359	722	10,562	0	0	13,216	47	0	0	769	43
U. New Hampshire	15	24,077	0	23,501	185	0	105	0	0	0	135	151
U. Alaska, Fairbanks	16	21,739	48	17,549	165	0	3,781	0	0	0	196	0
Columbia U. in the City of New York	17	20,968	64	13,019	563	0	4,808	0	0	0	2,514	0
U. Iowa	18	20,876	0	20	0	0	19,829	0	25	0	971	31
U. Washington, Seattle	19	20,873	23	8,635	1,950	0	3,409	0	0	0	6,742	114
San Jose State U.	20	20,113	0	1,723	0	0	366	17,958	0	0	66	0
Baylor C. of Medicine	21	19,759	0	0	19,759	0	0	0	0	0	0	0
Stanford U.	22	18,233	0	1,774	757	0	10,921	0	208	0	3,761	812
Pennsylvania State U., University Park and Hershey Medical Center	23	15,518	14	3,001	151	33	9,803	0	0	0	2,495	21
Princeton U.	24	14,005	0	802	0	0	12,224	0	0	0	979	0
U. Texas, Austin	25	13,954	472	2,372	293	80	2,736	0	0	0	8,001	0
Catholic U. of America	26	13,378	0	0	0	0	12,732	0	0	0	646	0
Purdue U., West Lafayette	27	12,115	195	2,013	172	0	856	0	0	0	8,869	10
Georgia Institute of Technology	28	12,063	224	2,973	522	44	3,692	0	0	0	4,523	85
U. Hawaii, Manoa	29	11,971	74	6,690	193	0	4,631	0	0	0	383	0

**TABLE 63**  
**Federally financed higher education R&D expenditures, financed by the National Aeronautics and Space Administration, ranked by NASA R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	NASA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Wisconsin-Madison	30	11,307	603	5,193	2,841	0	1,758	0	34	34	844	0
U. California, San Diego	31	10,171	153	6,062	559	0	1,858	0	0	0	1,539	0
U. Illinois, Urbana-Champaign	32	10,081	14	1,211	547	0	2,063	0	11	0	6,216	19
U. Alabama, Birmingham	33	9,847	0	0	0	0	227	0	0	0	9,620	0
U. Central Florida	34	9,402	880	0	33	0	2,387	0	0	0	6,053	49
Texas A&M U., College Station and Health Science Center	35	9,126	19	2,390	1,208	37	766	0	0	0	4,706	0
Washington U., Saint Louis	36	8,814	0	4,103	0	0	3,956	0	0	0	755	0
U. Florida	37	8,687	4	479	2,266	0	1,134	0	44	0	4,754	6
Harvard U.	38	8,549	17	4,437	515	0	2,629	0	172	0	779	0
Ohio State U.	39	8,438	0	1,181	242	13	2,216	0	26	86	4,673	1
Boston U.	40	8,154	0	3,235	58	0	3,255	0	0	0	1,282	324
Colorado State U., Fort Collins	41	7,984	0	4,088	2,207	0	0	0	0	30	1,659	0
George Mason U.	42	7,646	130	6,590	0	0	522	0	0	0	333	71
U. Minnesota, Twin Cities	43	7,611	0	332	1,612	0	4,099	0	25	0	1,543	0
Cornell U.	44	7,536	0	719	526	0	4,619	0	0	0	1,672	0
Woods Hole Oceanographic Institution	45	7,249	0	6,856	0	0	0	0	0	0	393	0
Montana State U., Bozeman	46	7,188	0	300	766	0	4,035	0	10	770	1,192	115
U. California, Irvine	47	6,740	0	3,600	1,526	0	947	0	0	0	667	0
Auburn U., Auburn	48	6,492	9	32	130	0	1,258	0	0	0	5,063	0
U. Chicago	49	6,313	29	2,331	0	0	3,942	0	0	0	11	0
Oregon State U.	50	6,056	33	2,811	2,154	0	293	199	0	91	475	0
U. California, Santa Barbara	51	5,881	0	2,778	403	0	1,000	0	1,064	0	636	0
U. California, Davis	52	5,568	0	157	630	0	956	0	0	0	3,825	0
U. Toledo	53	4,620	0	1,468	0	0	580	0	0	0	2,572	0
Virginia Polytechnic Institute and State U.	54	4,581	0	270	315	42	230	0	0	0	3,724	0
Dartmouth C. and Dartmouth Hitchcock Medical Center	55	4,560	0	120	552	0	3,042	0	122	3	721	0
Michigan Technological U.	56	4,344	0	1,280	0	0	40	0	2	0	3,022	0
U. Delaware	57	4,314	23	330	211	0	2,031	0	0	0	1,719	0
U. Pennsylvania	58	4,250	0	177	2,061	0	1,651	0	0	0	361	0
Hampton U.	59	4,115	0	1,697	0	0	2,418	0	0	0	0	0
U. Virginia, Charlottesville	60	4,060	448	586	299	0	1,641	0	0	0	1,086	0

**TABLE 63**  
**Federally financed higher education R&D expenditures, financed by the National Aeronautics and Space Administration, ranked by NASA R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	NASA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Texas State U.	61	4,032	0	296	310	0	247	0	0	0	395	2,784
Northern Arizona U.	62	3,977	0	798	479	0	2,570	0	0	130	0	0
New Mexico State U.	63	3,974	0	458	0	0	2,228	0	0	0	1,237	51
Michigan State U.	64	3,963	0	618	723	35	398	0	1,655	0	534	0
Case Western Reserve U.	65	3,948	0	392	2	0	814	0	0	0	2,740	0
Carnegie Mellon U.	66	3,942	2,051	0	0	0	327	0	0	0	1,564	0
West Virginia U.	67	3,878	179	80	0	0	853	0	0	0	2,766	0
Rice U.	68	3,817	150	935	49	44	1,385	151	0	0	1,038	65
SUNY, Stony Brook U.	69	3,707	0	2,311	678	0	285	0	0	67	319	47
Brown U.	70	3,692	28	2,366	0	0	1,262	0	0	0	36	0
U. Utah	71	3,666	374	1,396	160	0	461	0	0	0	671	604
U. California, Santa Cruz	72	3,638	0	1,061	41	0	2,534	0	0	0	2	0
Louisiana State U., Baton Rouge	73	3,625	30	717	234	0	1,415	0	31	0	219	979
Yale U.	74	3,577	0	762	1,170	10	967	0	0	0	668	0
U. Tennessee, Knoxville	75	3,469	0	1,207	116	0	1	0	0	0	2,145	0
Rutgers, State U. New Jersey, New Brunswick	76	3,426	0	1,328	557	0	787	0	0	0	754	0
Morgan State U.	77	3,395	0	3,199	0	0	0	0	0	0	196	0
U. Southern California	78	3,338	402	343	457	8	472	0	0	0	1,656	0
Northwestern U.	79	3,213	0	215	520	0	1,174	0	0	0	1,042	262
U. Massachusetts, Amherst	80	3,206	387	182	160	0	1,153	0	0	0	1,324	0
Florida State U.	81	3,188	15	1,383	342	8	552	0	0	0	888	0
U. South Carolina, Columbia	82	3,040	88	66	432	1	371	0	0	0	2,074	8
Rensselaer Polytechnic Institute	83	2,994	102	921	0	0	367	0	0	0	1,604	0
Rochester Institute of Technology	84	2,950	0	0	8	421	2,514	0	0	0	7	0
U. Houston	85	2,935	33	639	341	0	169	13	0	0	1,740	0
American U.	86	2,927	0	63	0	0	2,864	0	0	0	0	0
U. Connecticut	87	2,866	0	233	553	0	266	0	0	0	981	833
Texas Tech U.	88	2,812	0	1,965	0	0	224	0	0	0	623	0
U. Miami	88	2,812	0	2,076	105	0	568	0	0	0	63	0
Georgetown U.	90	2,743	0	0	2,698	0	45	0	0	0	0	0
U. South Florida <sup>c</sup>	91	2,721	0	2,484	0	0	21	0	0	0	216	0
U. Texas, El Paso	92	2,699	349	164	53	0	2	0	0	286	1,845	0





**TABLE 63**  
**Federally financed higher education R&D expenditures, financed by the National Aeronautics and Space Administration, ranked by NASA R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	NASA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Wichita State U.	125	1,670	0	0	0	0	230	0	0	0	1,440	0
Old Dominion U.	126	1,663	145	88	9	422	386	0	0	0	613	0
Florida Institute of Technology	127	1,649	0	345	38	0	884	0	0	0	357	25
California State U., Monterey Bay	128	1,558	0	0	1,558	0	0	0	0	0	0	0
Naval Postgraduate School	129	1,467	0	180	0	0	0	0	0	0	1,287	0
Washington State U.	130	1,403	0	96	1,070	0	72	0	0	0	165	0
U. Rochester	131	1,394	0	385	252	0	472	0	0	0	285	0
George Washington U.	132	1,354	0	0	273	0	629	0	5	91	355	1
Mississippi State U.	133	1,351	0	147	0	0	0	0	0	0	1,204	0
U. Maine	134	1,319	4	829	208	0	0	0	0	62	215	1
U. Nevada, Reno	135	1,302	69	897	18	0	87	0	0	0	231	0
Delaware State U.	136	1,272	0	0	0	0	1,272	0	0	0	0	0
U. Georgia	137	1,269	0	295	71	0	274	168	411	0	50	0
U. Notre Dame	138	1,265	0	0	3	0	509	0	0	0	753	0
Loma Linda U.	139	1,263	0	0	1,263	0	0	0	0	0	0	0
U. Wyoming	140	1,223	0	164	10	0	502	0	0	0	547	0
Northeastern U.	141	1,171	34	0	0	0	417	0	0	0	660	60
U. Arkansas, Fayetteville	142	1,162	0	243	0	0	399	0	0	0	520	0
Emory U.	143	1,135	0	0	1,044	0	91	0	0	0	0	0
Embry-Riddle Aeronautical U.	144	1,117	0	14	0	0	1,010	0	0	0	79	14
Indiana U., Bloomington	145	1,108	112	174	272	0	496	0	54	0	0	0
North Carolina Agricultural and Technical State U.	146	1,098	0	0	0	0	17	0	0	0	1,081	0
SUNY, U. Buffalo	147	1,095	0	498	0	0	0	0	0	0	597	0
California State U., Northridge	148	1,056	0	53	69	0	153	0	0	0	781	0
New York U.	149	1,050	224	0	0	261	426	0	48	0	91	0
Miami U.	150	1,035	0	0	1,032	0	0	0	0	0	3	0
U. of the District of Columbia	151	1,031	0	0	0	0	0	0	0	0	1,031	0
Portland State U.	152	1,024	0	144	234	0	375	0	0	0	271	0
U. Maryland Center for Environmental Science	153	1,014	0	387	627	0	0	0	0	0	0	0
U. Texas Medical Branch	154	973	0	0	973	0	0	0	0	0	0	0
U. Oregon	155	964	0	915	0	0	49	0	0	0	0	0

**TABLE 63**  
**Federally financed higher education R&D expenditures, financed by the National Aeronautics and Space Administration, ranked by NASA R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	NASA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
South Dakota School of Mines and Technology	156	959	0	0	0	5	7	0	0	0	947	0
Desert Research Institute	157	956	0	956	0	0	0	0	0	0	0	0
Tufts U.	158	928	0	0	0	66	297	0	0	0	565	0
Sonoma State U.	159	926	0	926	0	0	0	0	0	0	0	0
U. Rhode Island	160	873	0	690	0	0	69	0	0	81	33	0
Missouri U. of Science and Technology	161	867	0	0	0	0	0	0	0	0	867	0
Wake Forest U.	162	858	46	0	797	0	15	0	0	0	0	0
Temple U.	163	845	47	69	0	0	354	0	173	0	163	39
Prairie View A&M U.	164	835	0	0	242	0	137	0	0	0	456	0
U. Louisiana, Lafayette	165	808	0	0	95	0	152	0	0	0	561	0
San Diego State U.	166	804	0	96	32	0	131	0	3	0	542	0
U. Dayton	166	804	0	139	0	0	0	0	0	0	665	0
U. Akron	168	793	0	0	0	0	167	0	0	0	626	0
Georgia State U.	169	781	237	0	0	0	544	0	0	0	0	0
U. Louisville	170	777	0	0	282	0	88	0	40	0	367	0
U. of the Virgin Islands	171	776	0	0	0	0	14	0	0	0	762	0
U. North Texas, Denton	172	764	0	0	0	0	158	0	0	0	254	352
U. Texas M. D. Anderson Cancer Center	173	752	0	0	752	0	0	0	0	0	0	0
U. Mississippi	174	751	0	87	203	0	298	0	0	0	163	0
Scripps Research Institute	175	741	0	0	741	0	0	0	0	0	0	0
Morehead State U.	176	723	0	0	0	0	0	0	0	0	723	0
Stevens Institute of Technology	177	720	0	0	0	0	381	0	0	130	209	0
Virginia Commonwealth U.	177	720	0	0	202	24	0	0	0	0	494	0
U. Cincinnati	179	717	0	67	325	138	64	0	25	0	98	0
New Mexico Institute of Mining and Technology	180	698	0	114	0	0	67	0	0	0	517	0
U. Nebraska, Lincoln	180	698	167	1	207	6	14	0	0	0	303	0
Kansas State U.	182	678	66	0	10	0	89	0	124	70	309	10
Eastern Virginia Medical School	183	677	0	0	677	0	0	0	0	0	0	0
Villanova U.	184	668	0	0	0	0	668	0	0	0	0	0
U. Arkansas, Little Rock	185	664	0	0	0	0	24	0	0	0	640	0
U. Illinois, Chicago	186	655	0	326	0	0	48	0	40	63	178	0





**TABLE 63**  
**Federally financed higher education R&D expenditures, financed by the National Aeronautics and Space Administration, ranked by NASA R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	NASA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Central Washington U.	250	189	0	164	0	0	25	0	0	0	0	0
Northern Illinois U.	250	189	0	0	74	0	0	0	0	0	115	0
U. South Alabama	252	182	0	30	0	0	32	0	0	0	120	0
Andrews U.	253	174	0	0	0	0	174	0	0	0	0	0
Cleveland State U.	254	172	0	0	0	0	0	0	0	0	172	0
Tulane U.	255	170	0	134	8	0	28	0	0	0	0	0
Kent State U.	256	169	0	114	0	0	41	0	0	0	14	0
Marshall U.	256	169	19	0	86	0	45	0	0	0	19	0
Rush U.	258	168	0	0	168	0	0	0	0	0	0	0
U. Denver	259	167	0	0	157	0	0	0	0	0	10	0
Swarthmore C.	260	162	0	0	0	0	162	0	0	0	0	0
Boston C.	261	160	0	155	0	0	5	0	0	0	0	0
U. Alaska, Anchorage	262	159	19	50	0	0	63	0	0	0	27	0
Brandeis U.	263	158	0	0	0	0	0	0	5	0	153	0
Montclair State U.	264	156	0	115	0	0	36	0	0	0	5	0
Western Kentucky U.	265	151	0	0	0	0	151	0	0	0	0	0
Lehigh U.	266	150	0	131	0	0	14	0	0	0	5	0
U. Puerto Rico, Mayaguez	267	148	0	148	0	0	0	0	0	0	0	0
California Polytechnic State U., San Luis Obispo	268	145	57	0	7	0	29	0	3	0	49	0
C. New Jersey	269	144	0	0	0	0	20	0	0	0	124	0
Louisiana State U., Health Sciences Center, Shreveport	269	144	0	0	144	0	0	0	0	0	0	0
U. Washington, Tacoma	271	140	0	0	0	0	0	0	0	0	140	0
U. Houston-Clear Lake	272	139	0	0	0	0	139	0	0	0	0	0
Montana Technological U.	273	135	0	27	0	0	95	0	0	0	13	0
Southern Connecticut State U.	274	133	0	0	0	0	133	0	0	0	0	0
Ithaca C.	275	132	0	0	0	0	132	0	0	0	0	0
CUNY, Lehman C.	276	130	0	0	0	0	128	0	0	0	0	2
CUNY, Hunter C.	277	128	0	92	0	0	36	0	0	0	0	0
CUNY, York C.	278	124	0	124	0	0	0	0	0	0	0	0
Indiana U.-Purdue U., Indianapolis	279	118	29	62	0	0	0	0	7	0	0	20
Albion C.	280	117	0	0	0	0	117	0	0	0	0	0

**TABLE 63**  
**Federally financed higher education R&D expenditures, financed by the National Aeronautics and Space Administration, ranked by NASA R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	NASA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields										
Middlebury C.	281	115	0	0	0	0	115	0	0	0	0	0										
SUNY, Polytechnic Institute	282	114	0	0	0	0	0	0	0	0	114	0										
U. Arkansas, Pine Bluff	282	114	0	0	0	0	114	0	0	0	0	0										
U. Tulsa	284	113	0	14	0	0	24	0	0	0	75	0										
North Dakota State U.	285	112	0	4	0	0	0	0	20	0	88	0										
California State U., San Bernardino	286	111	0	0	30	0	81	0	0	0	0	0										
Wayne State U.	287	110	0	0	0	0	51	0	0	0	59	0										
Creighton U.	288	109	i	6	i	0	21	i	1	i	1	0	i	1	i							
U. North Carolina, Charlotte	288	109	0	0	0	0	1	0	0	0	108	0										
East Carolina U.	290	108	0	108	0	0	0	0	0	0	0	0										
Central Connecticut State U.	291	105	0	74	10	0	20	0	0	0	1	0										
Oregon Health and Science U.	292	99	0	0	99	0	0	0	0	0	0	0										
DePaul U.	293	95	0	0	0	0	94	1	0	0	0	0										
California State Polytechnic U., Pomona	294	94	0	0	0	0	90	0	0	0	4	0										
Marquette U.	294	94	0	0	0	0	78	0	0	0	16	0										
San Francisco State U.	294	94	0	0	0	0	94	0	0	0	0	0										
Dillard U.	297	93	0	46	0	0	47	0	0	0	0	0										
Louisiana Tech U.	298	92	21	0	20	0	7	0	0	0	44	0										
U. of the Pacific	298	92	0	0	0	0	92	0	0	0	0	0										
Augustana U.	300	91	0	0	0	0	91	0	0	0	0	0										
Idaho State U.	301	88	0	80	0	0	0	0	0	0	8	0										
Eastern Michigan U.	302	87	0	22	0	0	43	0	22	0	0	0										
U. Wisconsin-Milwaukee	302	87	0	23	0	0	64	0	0	0	0	0										
Alabama A&M U.	304	85	i	3	i	0	11	i	0	i	25	i	4	i	4	i	0	i	36	i	2	i
U. San Francisco	305	84	0	0	0	0	84	0	0	0	0	0										
U. Massachusetts, Dartmouth	306	81	0	0	0	0	38	0	0	0	43	0										
CUNY, Baruch C.	307	78	0	0	0	0	0	0	78	0	0	0										
Drake U.	308	76	0	0	39	0	7	0	0	0	0	30										
Barnard C.	309	74	0	0	0	0	74	0	0	0	0	0										
Bowie State U.	309	74	74	0	0	0	0	0	0	0	0	0										
Augusta U.	311	72	0	0	72	0	0	0	0	0	0	0										
South Carolina State U.	311	72	i	0	i	0	0	i	0	i	0	0	i	0	i	0	i	0	i	0	i	

TABLE 63

**Federally financed higher education R&D expenditures, financed by the National Aeronautics and Space Administration, ranked by NASA R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	NASA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Missouri, Saint Louis	313	71	43	0	0	0	28	0	0	0	0	0
Baylor U.	314	68	0	38	13	0	7	0	0	0	10	0
Savannah State U.	314	68	0	0	0	0	0	0	0	68	0	0
Southern Illinois U., Carbondale	314	68	0	61	7	0	0	0	0	0	0	0
Suffolk U.	317	66	0	0	0	0	0	0	0	0	66	0
Clark U.	318	65	0	65	0	0	0	0	0	0	0	0
Alaska Pacific U.	319	64	0	64	0	0	0	0	0	0	0	0
Grand Valley State U.	319	64	6	29	24	5	0	0	0	0	0	0
Bowling Green State U.	321	62	0	62	0	0	0	0	0	0	0	0
Pomona C.	321	62	0	2	0	0	60	0	0	0	0	0
Texas A&M U.-Kingsville	321	62	12	0	0	0	0	0	0	0	50	0
U. Puerto Rico, Cayey	321	62	0	0	0	0	62	0	0	0	0	0
CUNY, New York City C. of Technology	325	61	0	0	0	0	0	0	0	0	61	0
Missouri State U.	325	61	9	19	0	0	33	0	0	0	0	0
Skidmore C.	325	61	0	61	0	0	0	0	0	0	0	0
Hamilton C.	328	60	0	0	0	0	0	0	0	60	0	0
U. North Florida	328	60	0	0	23	0	19	0	0	0	18	0
Louisiana State U., Health Sciences Center, New Orleans	330	59	0	0	59	0	0	0	0	0	0	0
U.S. Naval Academy	330	59	0	0	0	0	59	0	0	0	0	0
Fisk U.	332	57	0	0	0	0	57	0	0	0	0	0
U. Hawaii, system office	333	56	0	56	0	0	0	0	0	0	0	0
Middle Tennessee State U.	334	55	0	0	12	0	43	0	0	0	0	0
U. Nebraska, Medical Center	335	54	0	0	54	0	0	0	0	0	0	0
Oakland U.	336	53	6	0	0	0	24	0	0	0	23	0
U. Central Arkansas	337	52	0	0	12	0	32	0	0	0	0	8
U. Northern Iowa	337	52	0	0	0	0	42	0	0	0	0	10
Harvey Mudd C.	339	51	0	0	0	0	51	0	0	0	0	0
Jackson State U.	339	51	7	0	32	0	5	0	0	0	7	0
Austin Peay State U.	341	50	0	0	0	0	50	0	0	0	0	0
James Madison U.	342	48	0	0	0	0	48	0	0	0	0	0
Occidental C.	342	48	0	0	0	0	48	0	0	0	0	0



**TABLE 63**  
**Federally financed higher education R&D expenditures, financed by the National Aeronautics and Space Administration, ranked by NASA R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	NASA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields		
Franklin W. Olin C. of Engineering	344	47	0	0	0	0	0	0	0	0	47	0		
Loyola U., Chicago	344	47	0	0	0	0	47	0	0	0	0	0		
Pittsburg State U.	344	47	0	0	0	0	0	0	0	0	47	0		
U. Alaska, Southeast	344	47	0	0	0	0	47	0	0	0	0	0		
Abilene Christian U.	348	45	0	0	0	0	0	0	0	0	45	0		
North Carolina Central U.	349	41	0	0	0	0	41	0	0	0	0	0		
Purdue U., Northwest	349	41	0	0	0	0	0	0	0	0	35	6		
SUNY, Geneseo	349	41	0	31	0	0	10	0	0	0	0	0		
Tuskegee U.	352	39	0	0	33	0	0	0	0	0	6	0		
Clarkson U.	353	38	0	0	0	0	0	0	0	0	38	0		
East Tennessee State U.	353	38	0	0	0	0	38	0	0	0	0	0		
Amherst C.	355	35	0	35	0	0	0	0	0	0	0	0		
California State U., Long Beach	355	35	0	10	0	0	0	0	0	0	10	15		
U. Northern Colorado	355	35	0	0	0	0	30	5	0	0	0	0		
U. New Haven	358	34	0	0	34	0	0	0	0	0	0	0		
Northern Kentucky U.	359	33	0	0	0	0	33	0	0	0	0	0		
Texas Christian U.	359	33	0	0	0	0	33	0	0	0	0	0		
U. Texas Rio Grande Valley	359	33	0	22	0	0	10	0	0	0	1	0		
U. Oklahoma, Tulsa	362	32	0	0	0	0	0	0	0	0	32	0		
U. Southern Maine	362	32	0	0	0	0	0	0	0	0	32	0		
Vassar C.	364	31	0	0	0	0	31	0	0	0	0	0		
Fayetteville State U.	365	30	0	0	30	0	0	0	0	0	0	0		
Tougaloo C.	365	30	i	0	i	0	i	0	i	0	i	0	i	
Furman U.	367	27	0	25	1	0	1	0	0	0	0	0		
U. New Orleans	368	26	0	0	0	0	0	0	0	0	10	16		
U. Wisconsin-Green Bay	368	26	i	0	i	14	i	1	i	0	i	5	1	i
CUNY, C. Staten Island	370	25	0	0	25	0	0	0	0	0	0	0		
Georgia Southern U.	370	25	0	0	0	0	25	0	0	0	0	0		
Texas A&M U.-Commerce	370	25	0	0	0	0	25	0	0	0	0	0		
U. Hawaii, Hilo	370	25	0	0	0	0	25	0	0	0	0	0		
U. Wisconsin-La Crosse	370	25	0	1	10	0	14	0	0	0	0	0		
SUNY, C. Brockport	375	24	0	0	0	0	24	0	0	0	0	0		

**TABLE 63**  
**Federally financed higher education R&D expenditures, financed by the National Aeronautics and Space Administration, ranked by NASA R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	NASA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields			
West Chester U. Pennsylvania	375	24	0	0	0	0	24	0	0	0	0	0			
Ball State U.	377	22	0	0	2	0	0	0	0	0	0	20			
Fort Lewis C.	377	22	0	0	0	0	0	0	0	0	22	0			
SUNY, C. Plattsburgh	377	22	0	0	0	0	22	0	0	0	0	0			
Claremont McKenna C.	380	21	0	0	0	0	21	0	0	0	0	0			
Keene State C.	380	21	0	0	0	0	21	0	0	0	0	0			
U. Louisiana, Monroe	380	21	0	21	0	0	0	0	0	0	0	0			
Clark Atlanta U.	383	20	0	0	0	10	10	0	0	0	0	0			
Union C., Schenectady	383	20	0	0	0	0	20	0	0	0	0	0			
Carleton C.	385	19	0	0	0	0	19	0	0	0	0	0			
Pratt Institute	385	19	0	0	0	0	0	0	0	0	0	19			
SUNY, C. of Environmental Science and Forestry	385	19	0	0	19	0	0	0	0	0	0	0			
U. Wisconsin-Eau Claire	385	19	0	0	0	0	19	0	0	0	0	0			
Virginia State U.	385	19	0	0	0	0	0	0	0	0	19	0			
Mercyhurst U.	390	18	i	1	i	8	i	2	i	0	i	1	i	0	i
Rockefeller U.	390	18	0	0	18	0	0	0	0	0	0	0	0		
Youngstown State U.	390	18	0	0	0	0	4	0	0	0	14	0			
Fairfield U.	393	17	1	0	0	0	14	0	0	0	2	0			
Central State U.	394	16	0	0	0	0	0	0	0	0	16	0			
Johnson C. Smith U.	394	16	i	0	i	0	i	0	i	0	i	16	i	0	i
Lafayette C.	394	16	0	0	0	0	16	0	0	0	0	0	0		
U. Baltimore	394	16	16	0	0	0	0	0	0	0	0	0	0		
U. Maryland, Eastern Shore	394	16	0	0	0	0	0	0	0	0	16	0			
Colby C.	399	15	0	0	0	0	15	0	0	0	0	0	0		
Murray State U.	399	15	0	15	0	0	0	0	0	0	0	0	0		
U. Colorado Colorado Springs	399	15	0	0	0	0	0	0	0	0	15	0			
U. Illinois, Springfield	399	15	0	0	0	0	15	0	0	0	0	0	0		
Albany State U.	403	14	0	0	0	0	0	0	0	0	14	0			
California State U., East Bay	404	13	0	0	0	0	13	0	0	0	0	0	0		
Citadel Military C. South Carolina	404	13	0	0	0	0	7	0	0	0	6	0	0		
Indiana State U.	404	13	0	0	0	0	13	0	0	0	0	0	0		

**TABLE 63**  
**Federally financed higher education R&D expenditures, financed by the National Aeronautics and Space Administration, ranked by NASA R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	NASA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Northland C.	404	13 i	0 i	11 i	2 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Oregon Institute of Technology	404	13 i	0 i	9 i	4 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
U. North Carolina, Asheville	404	13	0	0	0	0	13	0	0	0	0	0
U. North Carolina, Greensboro	404	13	0	0	13	0	0	0	0	0	0	0
Biola U.	411	12 i	0 i	0 i	1 i	0 i	5 i	0 i	0 i	0 i	6 i	0 i
Arkansas State U., Jonesboro	412	11	0	0	3	0	8	0	0	0	0	0
Mercer U.	412	11	0	0	0	0	0	0	0	0	11	0
Southeastern Louisiana U.	412	11	0	0	0	0	3	0	0	0	8	0
Calvin U.	415	10 i	0 i	0 i	2 i	0 i	8 i	0 i	0 i	0 i	0 i	0 i
Pacific U.	415	10	0	0	0	0	10	0	0	0	0	0
U. of St. Thomas (MN)	415	10	0	0	0	0	10	0	0	0	0	0
Azusa Pacific U.	418	9	0	0	0	0	9	0	0	0	0	0
Black Hills State U.	418	9	0	0	0	0	9	0	0	0	0	0
California State U., Fullerton	418	9	0	0	0	0	9	0	0	0	0	0
Gallaudet U.	418	9	1	0	4	1	3	0	0	0	0	0
Minnesota State U., Mankato	418	9	0	0	0	0	9	0	0	0	0	0
U. Minnesota, Duluth	418	9	0	0	9	0	0	0	0	0	0	0
U. North Texas, Health Science Center	418	9	0	0	9	0	0	0	0	0	0	0
Colorado State U., Pueblo	425	8	0	0	0	0	0	0	0	0	8	0
Keck Graduate Institute	425	8 i	0 i	0 i	4 i	0 i	0 i	0 i	0 i	0 i	4 i	0 i
Kennesaw State U.	425	8	0	0	8	0	0	0	0	0	0	0
Trinity C., Hartford	428	7	0	0	0	0	6	0	0	0	1	0
U. Wisconsin-Superior	428	7	0	0	0	0	0	0	0	0	7	0
Eastern Connecticut State U.	430	6	0	0	6	0	0	0	0	0	0	0
Franklin and Marshall C.	430	6	0	0	0	0	6	0	0	0	0	0
Macalester C.	430	6	0	0	0	0	6	0	0	0	0	0
U. Michigan, Dearborn	430	6	0	0	0	0	6	0	0	0	0	0
U. Wisconsin-Platteville	430	6 i	0 i	0 i	3 i	0 i	2 i	0 i	0 i	1 i	0 i	0 i
Alfred U.	435	5	0	0	0	0	5	0	0	0	0	0
Purdue U., Fort Wayne	435	5	0	0	0	0	0	0	0	0	5	0
Williams C.	435	5 i	0 i	5 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Appalachian State U.	438	4	0	0	0	0	4	0	0	0	0	0

**TABLE 63**  
**Federally financed higher education R&D expenditures, financed by the National Aeronautics and Space Administration, ranked by NASA R&D expenditures, by R&D field: FY 2021**  
(Dollars in thousands)

Institution	Rank	NASA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Coastal Carolina U.	438	4	0	0	0	0	0	0	0	0	0	4
Colorado C.	438	4	0	0	0	0	4	0	0	0	0	0
Lipscomb U.	441	3	0	0	0	0	0	0	0	0	3	0
U. South Carolina, Aiken	441	3	0	0	0	0	0	0	0	0	3	0
Air Force Institute of Technology	443	2	0	0	0	0	2	0	0	0	0	0
Hofstra U.	443	2	0	0	0	0	2	0	0	0	0	0
Rhode Island School of Design	443	2 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	2 i
Alabama State U.	446	1	0	0	1	0	0	0	0	0	0	0
Florida Polytechnic U.	446	1	0	0	0	0	0	0	0	0	1	0
New School	446	1	0	0	0	0	0	0	0	0	1	0
Reed C.	446	1 i	0 i	0 i	1 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Saginaw Valley State U.	446	1 i	1 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
SUNY, Binghamton U.	446	1	0	0	0	0	0	0	0	0	1	0
U. Nebraska, Kearney	446	1	0	0	1	0	0	0	0	0	0	0
U. South Dakota	446	1	0	0	0	0	0	0	1	0	0	0

i = imputed.

NASA = National Aeronautics and Space Administration; nec = not elsewhere classified; S&E = science and engineering.

<sup>a</sup> Johns Hopkins University includes the Applied Physics Laboratory, with \$356,879 thousand in R&D expenditures financed by NASA in FY 2021.

<sup>b</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

<sup>c</sup> The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

<sup>d</sup> The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

**Note(s):**

Institutions reporting zero expenditures in ranked total for FY 2021 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2021.

TABLE 64

**Federally financed higher education R&D expenditures, financed by the National Science Foundation, ranked by NSF R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	NSF R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
All institutions	-	5,410,561	707,395	653,911	734,797	205,576	1,070,906	80,771	154,079	96,865	1,391,029	315,232
Woods Hole Oceanographic Institution	1	120,859	0	65,308	0	0	0	0	0	0	55,551	0
U. Illinois, Urbana-Champaign	2	120,001	43,553	2,213	7,341	1,901	20,035	2,475	1,021	333	37,188	3,941
U. Washington, Seattle	3	115,139	9,210	29,179	10,708	1,983	14,316	3,022	2,472	0	31,224	13,025
Texas A&M U., College Station and Health Science Center	4	111,581	5,591	64,804	5,606	3,424	8,037	0	762	209	22,362	786
Cornell U.	5	110,332	12,648	2,588	16,815	1,973	43,374	699	2,506	0	28,518	1,211
U. Michigan, Ann Arbor	6	97,499	3,305	2,217	11,687	4,100	13,744	1,783	16,297	314	38,842	5,210
U. Texas, Austin	7	97,303	36,412	8,124	7,446	2,526	9,619	546	1,930	0	27,325	3,375
Massachusetts Institute of Technology	8	93,738	13,933	8,213	7,932	3,762	29,118	177	1,556	1,705	25,949	1,393
U. California, San Diego	9	90,861	14,622	27,072	5,090	2,520	6,290	2,914	563	5,057	26,493	240
U. Wisconsin-Madison	10	90,800	10,666	11,018	12,117	3,196	28,107	1,288	1,822	1,731	14,291	6,564
Columbia U. in the City of New York	11	89,066	10,268	34,547	7,354	1,786	16,377	424	1,102	0	12,975	4,233
California Institute of Technology	12	88,858	2,441	6,789	2,614	605	71,651	0	0	0	4,175	583
U. Colorado Boulder	13	87,115	10,193	19,629	4,913	1,607	19,014	492	4,105	730	14,878	11,554
Stanford U.	14	79,576	5,854	4,509	9,539	3,017	14,718	1,048	3,072	0	15,182	22,637
Michigan State U.	15	71,392	3,258	878	17,197	3,363	32,201	937	1,651	942	5,676	5,289
Carnegie Mellon U.	16	70,532	46,110	277	926	1,823	3,706	1,557	495	3,641	11,848	149
Purdue U., West Lafayette	17	70,105	7,776	1,664	6,551	483	8,790	302	1,156	16	38,310	5,057
Arizona State U.	18	69,074	5,504	4,227	10,834	1,076	5,466	668	6,130	6,670	26,866	1,633
Pennsylvania State U., University Park and Hershey Medical Center	19	68,873	7,819	7,301	8,337	2,826	13,972	1,784	1,856	0	19,360	5,618
U. Minnesota, Twin Cities	20	68,332	7,111	7,674	12,167	3,954	7,946	1,134	2,545	126	24,191	1,484
Princeton U.	21	66,663	11,167	9,146	4,399	3,700	22,328	1,373	1,705	0	12,690	155
U. California, Berkeley	22	63,624	144	1,879	8,193	4,979	15,377	1,337	1,095	4,842	23,224	2,554
Georgia Institute of Technology	23	60,036	9,167	2,415	2,899	3,160	7,224	101	535	0	31,407	3,128
U. California, Los Angeles	24	59,959	6,070	6,792	5,704	3,889	8,588	1,563	2,151	4,801	13,264	7,137
U. Chicago	25	58,602	12,985	5,358	3,280	2,976	18,525	1,052	5,614	0	7,473	1,339
North Carolina State U.	26	55,951	9,154	1,746	7,341	4,986	3,567	561	552	218	24,066	3,760
U. Maryland <sup>a</sup>	27	54,776	7,810	3,919	6,792	2,113	16,619	215	2,945	264	11,892	2,207
Northwestern U.	28	53,359	3,189	406	3,596	1,005	14,197	357	2,546	11,277	16,322	464

TABLE 64

**Federally financed higher education R&D expenditures, financed by the National Science Foundation, ranked by NSF R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	NSF R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Florida State U.	29	53,176	2,572	3,474	3,561	980	26,805	365	745	0	12,107	2,567
Oregon State U.	30	50,582	1,819	22,912	8,569	469	1,720	291	803	2,285	8,113	3,601
U. Southern California	31	49,721	15,276	4,289	7,274	901	3,627	472	1,316	143	12,397	4,026
U. Florida	32	49,024	4,659	6,337	7,400	496	7,244	111	952	0	16,731	5,094
Virginia Polytechnic Institute and State U.	33	48,740	5,475	996	9,992	1,678	7,174	120	432	29	21,916	928
Ohio State U.	34	48,648	5,301	2,675	7,635	2,374	10,536	1,602	2,580	2,311	12,763	871
U. Arizona	35	48,592	2,660	5,188	14,233	1,661	10,158	217	2,969	2,072	7,949	1,485
U. California, Santa Barbara	36	47,941	3,028	8,177	3,131	848	16,592	839	0	0	14,635	691
U. California, Irvine	37	47,367	7,937	3,521	5,144	2,196	8,682	1,210	1,127	0	11,443	6,107
Northeastern U.	38	47,090	9,634	1,689	2,024	721	4,706	285	1,448	0	23,408	3,175
Harvard U.	39	47,086	3,358	3,177	7,554	2,199	12,741	196	1,904	0	13,286	2,671
U. Pennsylvania	40	47,054	4,808	455	3,930	1,262	15,419	1,154	1,502	1	10,877	7,646
New York U.	41	42,854	5,646	71	5,626	5,958	6,890	2,747	3,264	0	9,799	2,853
Rutgers, State U. New Jersey, New Brunswick	42	41,762	3,616	4,173	9,138	4,794	5,879	421	136	25	10,827	2,753
SUNY, Stony Brook U.	43	40,234	6,758	3,451	2,229	2,032	16,705	564	255	2,823	5,055	362
U. North Carolina, Chapel Hill	44	40,150	10,719	3,516	4,553	3,526	8,794	469	2,024	0	1,507	5,042
Indiana U., Bloomington	45	39,460	17,143	964	4,059	841	7,416	1,744	1,342	29	2,811	3,111
U. Utah	46	38,298	12,172	2,891	3,529	1,551	8,585	200	596	0	6,715	2,059
Johns Hopkins U. <sup>b</sup>	47	36,823	3,427	2,787	4,047	1,355	10,756	531	111	82	12,990	737
U. Alaska, Fairbanks	48	36,484	53	22,242	9,461	118	2,287	0	410	50	961	902
U. Virginia, Charlottesville	49	35,864	7,508	2,402	4,599	1,089	5,589	686	2,561	986	8,295	2,149
Rice U.	50	35,401	3,691	994	1,716	2,095	7,459	764	602	393	15,488	2,199
U. California, Davis	51	34,803	3,022	2,298	12,092	3,165	4,296	478	945	2	6,830	1,675
U. Massachusetts, Amherst	52	34,549	7,425	1,177	4,377	1,060	4,905	1,374	1,197	0	9,959	3,075
Duke U.	53	33,567	3,165	1,153	7,213	3,577	3,527	126	2,578	7	11,470	751
Boston U.	54	33,284	3,261	1,270	2,398	756	7,322	1,150	460	1,184	13,451	2,032
U. Delaware	55	32,207	1,498	5,820	3,610	1,023	6,990	828	1,545	658	9,112	1,123
Yale U.	56	31,835	4,015	1,565	10,441	1,515	5,608	1,006	1,519	0	6,054	112
Iowa State U.	57	30,813	1,873	828	7,369	1,367	3,584	198	310	0	13,499	1,785
U. Georgia	58	30,420	982	3,606	15,172	751	2,185	1,590	1,149	39	3,130	1,816

TABLE 64

**Federally financed higher education R&D expenditures, financed by the National Science Foundation, ranked by NSF R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	NSF R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Hawaii, Manoa	59	29,782	2,130	19,054	1,407	370	3,418	7	1,028	405	1,857	106
U. Pittsburgh, Pittsburgh	60	29,667	2,560	830	4,808	1,238	5,560	330	561	2,739	9,600	1,441
SUNY, U. Buffalo	61	29,583	8,135	1,590	1,408	330	4,732	622	179	0	11,654	933
U. Notre Dame	62	28,682	3,792	0	1,418	2,344	10,724	393	529	536	8,596	350
Colorado State U., Fort Collins	63	27,501	1,640	6,472	5,267	1,323	3,371	1,254	264	328	5,698	1,884
U. Nebraska, Lincoln	64	27,251	3,507	312	10,787	486	6,230	191	593	0	3,579	1,566
U. California, Riverside	65	26,166	4,063	987	5,854	859	6,006	309	488	0	7,023	577
Brown U.	66	26,053	2,467	2,481	6,138	4,616	4,463	0	321	1,055	4,482	30
Vanderbilt U. and Vanderbilt U. Medical Center	67	25,555	4,336	504	3,503	548	1,916	1,839	258	0	6,142	6,509
U. New Mexico	68	23,926	1,719	3,776	3,589	789	2,006	14	1,356	0	8,895	1,782
U. Central Florida	69	23,480	2,874	14	910	547	3,102	29	313	90	13,569	2,032
Florida International U.	70	22,802	7,133	2,791	2,122	520	2,326	416	162	731	6,550	51
U. Connecticut	71	22,779	2,090	2,570	6,018	999	2,429	1,006	499	41	6,634	493
U. Tennessee, Knoxville	72	22,000	3,466	581	3,323	434	2,335	641	146	619	9,948	507
U. Illinois, Chicago	73	21,630	3,936	126	2,078	1,966	3,795	4	196	0	7,431	2,098
Washington U., Saint Louis	74	19,938	2,453	1,078	4,153	652	3,814	62	537	1,949	5,040	200
U. Rhode Island	75	19,473	376	9,006	2,132	0	900	0	67	4,336	2,336	320
U. Kansas	76	19,377	1,315	2,505	6,011	332	4,471	522	626	0	3,125	470
Dartmouth C. and Dartmouth Hitchcock Medical Center	77	18,918	2,812	771	1,401	331	3,149	1,963	613	633	6,982	263
Washington State U.	78	18,295	3,034	1,178	4,888	59	2,524	91	431	137	5,001	952
Clemson U.	79	17,932	1,647	0	1,247	872	1,617	344	730	0	10,036	1,439
U. Rochester	80	17,335	2,545	1,822	1,890	210	5,094	400	149	664	3,414	1,147
Louisiana State U., Baton Rouge	81	17,191	1,120	1,581	2,350	1,232	5,684	50	400	102	3,725	947
U. Wyoming	82	17,125	360	5,336	3,012	582	1,101	47	387	4,636	1,640	24
U. Kentucky	83	16,540	1,185	354	4,045	432	3,421	34	206	74	6,290	499
Montana State U., Bozeman	84	16,102	709	1,798	2,502	545	6,024	0	43	1,436	2,627	418
U. Houston	85	14,994	1,422	798	1,192	2,170	2,367	163	214	233	6,326	109
U. Missouri, Columbia	86	14,915	1,337	458	5,902	633	1,102	515	284	661	2,529	1,494
Colorado School of Mines	87	14,905	2,462	1,389	105	163	2,885	0	233	0	5,892	1,776
U. New Hampshire	88	14,761	551	4,760	2,892	335	1,215	11	342	0	4,211	444
U. Texas, Dallas	89	14,529	3,721	128	318	673	2,433	63	730	0	5,992	471

TABLE 64

**Federally financed higher education R&D expenditures, financed by the National Science Foundation, ranked by NSF R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	NSF R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. South Carolina, Columbia	90	14,409	1,406	1,432	4,970	681	669	3	363	0	2,274	2,611
Drexel U.	91	14,399	2,826	0	1,678	550	840	0	709	238	5,782	1,776
U. Arkansas, Fayetteville	92	14,101	1,624	1,491	3,540	34	1,563	54	220	0	5,403	172
Kansas State U.	93	14,066	829	291	5,075	123	2,080	0	329	89	3,642	1,608
U. Idaho	94	14,048	1,210	669	8,620	142	0	0	583	0	1,303	1,521
U. Oregon	95	14,016	570	2,409	1,895	641	4,043	322	933	0	0	3,203
Emory U.	96	13,948	799	19	3,047	834	7,524	218	674	0	745	88
U. California, Santa Cruz	97	13,870	2,005	3,710	1,026	139	3,459	13	482	0	2,780	256
U. Alabama, Tuscaloosa	98	13,801	988	361	2,232	243	1,457	41	624	0	6,274	1,581
Tufts U.	99	13,665	559	181	1,715	2,185	1,685	163	807	115	5,369	886
U. Oklahoma, Norman and Health Science Center	100	13,514	1,764	2,520	3,033	402	1,530	132	997	0	2,614	522
George Washington U.	101	13,487	1,654	59	1,851	345	1,365	239	1,596	875	4,845	658
U. South Florida <sup>C</sup>	102	13,081	1,807	2,394	1,307	484	1,677	103	654	237	3,912	506
U. Montana, Missoula	103	12,999	555	2,551	8,193	366	830	0	473	0	0	31
U. Nevada, Reno	104	12,778	1,879	1,416	3,078	404	2,060	596	62	0	3,011	272
Syracuse U.	105	12,585	1,035	999	976	457	4,127	0	720	3	4,188	80
New Mexico State U.	106	12,458	3,165	1,252	1,705	57	2,871	89	104	24	2,880	311
George Mason U.	107	12,345	3,490	1,407	789	568	752	291	363	14	2,906	1,765
Boise State U.	108	11,953	942	1,783	4,505	1,030	368	0	8	193	1,873	1,251
Lehigh U.	109	11,749	1,232	677	718	127	667	235	0	0	7,803	290
U. Maine	110	11,636	774	2,207	3,317	18	760	0	13	3,301	824	422
U. Texas, El Paso	111	11,223	3,658	1,087	1,683	137	1,235	368	315	0	2,362	378
U. Maryland, Baltimore County	112	11,141	4,332	806	908	228	1,536	0	97	1,173	1,408	653
CUNY, City C.	113	11,056	375	343	839	125	4,722	0	0	0	4,566	86
Worcester Polytechnic Institute	114	10,889	3,843	0	428	503	1,320	0	410	0	3,702	683
Rensselaer Polytechnic Institute	115	10,817	1,164	318	828	329	929	150	196	25	6,690	188
Temple U.	116	10,764	1,661	257	1,830	363	3,152	1,366	168	0	888	1,079
U. North Carolina, Charlotte	117	10,744	5,505	254	332	383	890	14	936	0	1,930	500
U. Iowa	118	10,635	1,024	318	1,041	223	2,841	192	555	99	3,121	1,221
New Jersey Institute of Technology	119	10,324	2,423	0	307	1,170	3,096	0	0	0	3,154	174
Auburn U., Auburn	120	10,226	900	678	2,373	395	2,107	40	113	219	3,230	171



TABLE 64

**Federally financed higher education R&D expenditures, financed by the National Science Foundation, ranked by NSF R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	NSF R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Wayne State U.	121	10,172	1,257	63	1,020	499	4,135	168	279	201	2,100	450
West Virginia U.	122	9,945	714	167	930	352	4,168	30	352	137	2,240	855
U. Miami	123	9,921	374	6,718	854	356	1,020	194	16	0	382	7
Utah State U.	124	9,915	1,765	623	2,368	172	879	40	15	0	3,520	533
North Dakota State U.	125	9,637	346	105	3,296	55	2,586	260	21	1,858	799	311
Northern Arizona U.	126	9,634	661	2,600	3,930	0	880	0	0	130	859	574
U. Vermont	127	9,574	355	417	3,745	53	1,281	20	182	2,787	609	125
U. California, San Francisco	128	9,402	0	0	5,596	0	3,806	0	0	0	0	0
U. Texas, Arlington	129	9,340	2,369	65	1,069	492	2,382	0	7	0	2,547	409
Rochester Institute of Technology	130	9,216	3,008	0	289	921	2,064	0	159	0	1,470	1,305
Mississippi State U.	131	9,215	1,083	128	671	189	1,153	0	169	0	5,315	507
Oklahoma State U., Stillwater	132	9,134	406	24	2,513	472	649	111	98	1,662	2,754	445
North Carolina Agricultural and Technical State U.	133	9,073	519	0	1,375	658	903	121	8	0	4,018	1,471
Case Western Reserve U.	134	9,028	1,022	30	1,276	310	2,143	22	182	0	3,387	656
U. Wisconsin-Milwaukee	134	9,028	0	418	362	0	6,957	14	192	0	964	121
U. Cincinnati	136	8,595	188	89	1,051	287	2,057	23	319	0	3,892	689
Georgia State U.	137	8,515	756	294	475	385	3,374	338	797	0	0	2,096
Brigham Young U., Provo	138	8,317	289	164	905	403	1,580	48	103	0	4,814	11
U. Texas, San Antonio	139	8,001	3,136	495	732	116	788	85	532	18	1,761	338
SUNY, U. Albany	140	7,863	778	3,431	1,180	248	631	35	162	0	531	867
San Diego State U.	141	7,803	465	173	1,780	1,036	1,065	547	566	31	1,011	1,129
Texas Tech U.	142	7,510	861	675	762	177	690	264	34	0	3,227	820
U. Alabama, Huntsville	143	7,400	1,465	686	121	15	4,239	0	0	0	869	5
U. Louisville	144	7,312	0	163	597	99	622	205	35	0	5,494	97
U. Puerto Rico, Rio Piedras	145	7,136	258	1,573	937	0	1,563	0	15	1,499	1,152	139
Virginia Commonwealth U.	146	7,003	917	179	1,072	404	931	109	160	0	2,658	573
New Mexico Institute of Mining and Technology	147	6,970	1,008	5,082	9	0	700	0	0	0	126	45
Portland State U.	148	6,865	1,146	356	1,593	585	395	14	464	367	822	1,123
Michigan Technological U.	149	6,820	746	2,152	311	166	455	37	389	180	2,257	127
Jackson State U.	150	6,726	317	0	138	11	5,483	118	46	0	368	245
Boston C.	151	6,635	159	435	383	908	1,905	1,002	529	0	0	1,314

TABLE 64

**Federally financed higher education R&D expenditures, financed by the National Science Foundation, ranked by NSF R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	NSF R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Alabama, Birmingham	152	6,607	1,166	0	2,017	362	2,090	0	0	0	263	709
SUNY, Binghamton U.	153	6,535	1,186	187	161	85	2,401	0	193	0	1,995	327
Missouri U. of Science and Technology	154	6,504	613	0	26	250	1,469	0	44	0	4,102	0
U. Massachusetts, Lowell	155	6,447	1,106	714	89	60	337	784	10	0	3,032	315
Stevens Institute of Technology	156	6,391	1,716	0	10	42	676	0	0	0	3,575	372
Indiana U.-Purdue U., Indianapolis	157	6,271	2,214	413	524	334	505	68	472	274	1,241	226
Howard U.	158	6,166	616	0	815	0	198	349	136	0	4,052	0
William & Mary	159	6,095	1,024	2,255	733	88	1,363	178	37	0	0	417
U. California, Merced	160	6,067	302	1,531	481	639	954	0	11	171	1,740	238
Georgetown U.	161	6,029	1,810	0	1,169	180	1,420	253	915	0	0	282
U. Puerto Rico, Mayaguez	162	5,980	0	88	323	87	399	0	6	0	5,077	0
U. of the Virgin Islands	163	5,892	90	4,196	0	439	975	0	192	0	0	0
U. North Texas, Denton	164	5,805	1,141	140	950	121	1,328	0	246	0	1,558	321
Brandeis U.	165	5,621	520	0	415	509	3,574	134	15	0	253	201
Tuskegee U.	166	5,608	415	0	0	1,146	169	0	0	0	3,878	0
South Dakota School of Mines and Technology	167	5,514	33	0	0	129	287	0	0	0	5,065	0
Illinois Institute of Technology	168	5,506	1,908	123	60	312	456	0	13	4	2,630	0
Southern Methodist U.	169	5,167	105	305	0	675	1,680	0	38	0	868	1,496
Old Dominion U.	170	5,120	430	1,003	1,025	187	599	114	17	0	1,224	521
Tulane U.	171	5,047	330	953	159	305	1,715	0	116	0	1,378	91
Rutgers, State U. New Jersey, Newark	172	5,041	209	843	1,659	0	1,325	120	108	0	0	777
U. Nevada, Las Vegas	173	4,880	398	595	1,146	48	609	0	51	0	1,576	457
Cold Spring Harbor Laboratory	174	4,826	0	0	4,826	0	0	0	0	0	0	0
U. Louisiana, Lafayette	175	4,776	1,923	745	596	163	97	0	0	57	786	409
U. Massachusetts, Boston	176	4,775	412	155	490	0	1,997	183	900	0	237	401
U. Southern Mississippi	177	4,732	5	901	968	0	2,748	0	46	0	49	15
U. Memphis	178	4,496	2,537	19	179	240	719	0	0	0	511	291
Florida A&M U.	179	4,413	14	896	1,286	0	62	189	0	0	1,779	187
St. Edward's U.	180	4,309	500	259	1,000	600	450	0	0	0	0	1,500
San Francisco State U.	181	4,297	537	826	1,383	256	299	0	251	370	105	270
U. South Alabama	182	4,207	1,128	858	716	116	35	0	68	0	708	578

TABLE 64

## Federally financed higher education R&amp;D expenditures, financed by the National Science Foundation, ranked by NSF R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	NSF R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Kent State U.	183	4,203	372	79	543	212	1,735	161	121	0	272	708
Florida Atlantic U.	184	4,111	1,045	75	947	200	178	16	0	0	1,378	272
U. Akron	185	4,107	32	116	209	117	2,172	10	6	0	1,404	41
Marquette U.	186	4,056	489	0	505	335	1,532	0	0	0	929	266
U. Colorado Denver <sup>d</sup>	187	4,029	134	119	503	833	748	0	130	0	971	591
Texas State U.	188	4,006	586	105	419	830	974	0	103	30	285	674
California State U., Northridge	189	3,948	358	344	1,170	582	1,248	54	0	0	92	100
U. Mississippi	190	3,939	119	155	785	201	1,875	0	1	0	692	111
East Carolina U.	191	3,758	301	264	647	0	693	67	470	0	744	572
Western Michigan U. and Homer Stryker M.D. School of Medicine	192	3,750	150	38	310	9	561	0	4	33	419	2,226
U. Guam	193	3,650	0	3,193	0	81	0	0	0	0	0	376
U. South Dakota	194	3,574	86	0	1,322	0	1,464	0	12	0	690	0
California State U., East Bay	195	3,564	0	20	131	28	645	0	0	0	0	2,740
Villanova U.	196	3,411	71	139	509	20	736	273	0	0	1,043	620
Scripps Research Institute	197	3,365	0	0	3,365	0	0	0	0	0	0	0
Teachers C., Columbia U.	198	3,352	1,425	0	35	0	0	0	1,892	0	0	0
California Polytechnic State U., San Luis Obispo	199	3,293	221	189	397	1,213	560	0	0	0	513	200
Tennessee State U.	200	3,267	317	0	1,082	0	41	257	503	0	926	141
Delaware State U.	201	3,244	5	4	2,473	0	561	3	0	0	198	0
Hampton U.	202	3,235	994	985	319	0	358	0	0	0	573	6
Rowan U.	203	3,215	253	33	93	100	1,196	0	58	126	1,356	0
Morgan State U.	204	3,149	338	64	303	129	25	0	93	0	1,588	609
U. Maryland Center for Environmental Science	205	3,142	0	1,386	993	0	61	0	33	0	0	669
U. Colorado Anschutz Medical Campus <sup>d</sup>	206	3,108	0	0	2,665	0	44	0	0	0	306	93
Idaho State U.	207	3,047	404	760	1,026	0	538	170	0	0	95	54
U. of the District of Columbia	208	3,030	242	0	63	447	0	0	0	0	1,268	1,010
Louisiana Tech U.	209	2,968	0	0	134	265	346	127	0	0	2,026	70
U. Alaska, Anchorage	210	2,959	20	371	1,560	0	442	0	243	15	188	120
Clarkson U.	211	2,948	500	47	90	149	337	0	0	0	1,706	119

TABLE 64

**Federally financed higher education R&D expenditures, financed by the National Science Foundation, ranked by NSF R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	NSF R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
CUNY, Advanced Science Research Center	212	2,931	0	720	580	0	568	0	0	0	1,063	0
U. Tulsa	213	2,898	1,329	89	214	0	64	0	56	0	1,135	11
Ohio U.	214	2,838	0	146	329	25	1,207	87	210	0	803	31
California State U., San Bernardino	215	2,809	169	51	0	102	1,630	317	0	0	0	540
Saint Louis U.	216	2,799	433	144	1,423	8	276	0	160	0	328	27
Fisk U.	217	2,770	385	0	1,284	407	680	0	0	0	0	14
Southern U. and A&M C., Baton Rouge	218	2,743	183	0	171	50	154	0	0	0	1,872	313
Northern Illinois U.	219	2,741	99	673	504	31	1,153	96	23	0	118	44
U. North Dakota	220	2,725	107	452	882	0	532	0	13	4	379	356
Tennessee Technological U.	221	2,722	1,423	0	22	0	509	0	0	0	768	0
U. North Carolina, Greensboro	222	2,717	268	0	319	182	335	0	137	0	0	1,476
U. Denver	223	2,704	22	30	530	37	858	347	208	0	357	315
North Carolina Central U.	224	2,691	0	164	0	0	2,036	0	0	0	264	227
Miami U.	225	2,687	0	468	654	196	913	0	253	0	91	112
U. Tennessee, Chattanooga	226	2,686	646	0	549	36	0	0	8	17	1,339	91
Bowling Green State U.	227	2,676	22	762	183	82	737	0	0	0	35	855
U. Texas Rio Grande Valley	228	2,650	22	92	62	345	604	0	0	0	1,096	429
U. Toledo	229	2,637	0	264	165	0	473	39	0	0	1,610	86
Embry-Riddle Aeronautical U.	230	2,626	583	0	0	62	698	0	39	0	849	395
Wake Forest U.	231	2,607	99	0	1,448	23	783	34	24	0	148	48
Western Washington U.	232	2,598	22	584	130	227	930	42	52	173	230	208
U. Minnesota, Duluth	233	2,594	136	181	1,644	134	317	0	107	0	44	31
Baylor U.	234	2,560	51	159	645	384	893	0	0	36	388	4
Oakland U.	235	2,522	403	0	429	55	684	193	0	0	758	0
U. Nebraska, Omaha	236	2,517	1,395	16	199	304	47	93	0	0	0	463
Montclair State U.	237	2,511	107	281	265	317	159	70	62	0	0	1,250
Morehouse C.	238	2,426	385	0	90	882	627	59	0	383	0	0
CUNY, Queens C.	239	2,421	253	168	216	221	843	1	112	0	0	607
Loyola U., Chicago	240	2,349	71	0	862	67	521	418	233	0	0	177
California State U., San Marcos	241	2,311	543	0	121	0	501	504	0	613	0	29
SUNY, Polytechnic Institute	241	2,311	0	0	46	0	0	0	0	0	2,265	0

TABLE 64

## Federally financed higher education R&amp;D expenditures, financed by the National Science Foundation, ranked by NSF R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	NSF R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
California State Polytechnic U., Pomona	243	2,278	292	0	664	20	1,015	19	0	23	116	129
American U.	244	2,220	65	394	61	195	136	0	710	0	0	659
U. North Carolina, Wilmington	245	2,194	41	732	963	20	332	0	19	0	87	0
Baylor C. of Medicine	246	2,184	0	0	2,184	0	0	0	0	0	0	0
South Dakota State U.	247	2,142	0	0	1,095	103	380	0	347	0	178	39
Clark Atlanta U.	248	2,129	98	0	669	255	1,049	0	0	0	11	47
Illinois State U.	249	2,109	76	347	536	119	923	0	0	0	0	108
Florida Institute of Technology	250	2,107	129	783	204	132	459	0	0	0	400	0
U. Massachusetts, Dartmouth	251	2,100	60	534	38	290	3	0	16	0	626	533
California State U., Fresno	252	2,075	140	366	147	431	428	0	0	0	285	278
Southern Illinois U., Carbondale	253	2,039	0	704	173	5	569	83	0	7	498	0
CUNY, Graduate Center	254	2,020	22	0	92	332	391	370	559	131	0	123
California State U., Fullerton	255	1,985	0	48	414	107	1,049	0	25	0	333	9
DePaul U.	256	1,980	1,369	235	142	0	117	116	0	0	0	1
California State U., Los Angeles	257	1,968	182	0	211	26	890	0	220	0	279	160
U. Washington, Bothell	258	1,938	63	182	211	0	681	0	0	0	2	799
Prairie View A&M U.	259	1,935	105	0	61	81	73	0	0	0	1,454	161
Texas A&M U.-Corpus Christi	260	1,861	258	774	443	0	46	0	88	0	108	144
U. Colorado Colorado Springs	261	1,837	1,045	49	68	0	74	125	17	0	198	261
Middle Tennessee State U.	262	1,833	274	0	122	316	1,049	72	0	0	0	0
Barnard C.	263	1,827	63	152	184	0	934	348	41	0	0	105
Wellesley C.	264	1,792	339	60	751	262	155	31	194	0	0	0
U. Hawaii, Hilo	265	1,731	91	0	814	753	39	0	34	0	0	0
Occidental C.	266	1,708	280	148	279	97	352	352	136	0	0	64
San Jose State U.	267	1,698	0	621	8	167	432	85	19	0	366	0
Wichita State U.	267	1,698	0	255	381	139	186	0	0	0	728	9
U. Missouri, Kansas City	269	1,696	408	93	16	0	487	0	0	0	665	27
Toyota Technological Institute, Chicago	270	1,647	1,647	0	0	0	0	0	0	0	0	0
Winston-Salem State U.	271	1,645	251	0	189	0	652	356	197	0	0	0
Texas A&M U.-Kingsville	272	1,633	0	0	0	0	0	0	0	0	1,633	0
South Carolina State U.	273	1,630	108	0	0	0	650	0	0	0	303	569

TABLE 64

**Federally financed higher education R&D expenditures, financed by the National Science Foundation, ranked by NSF R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	NSF R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Norfolk State U.	274	1,613	3	0	88	29	449	0	58	0	986	0
CUNY, Lehman C.	275	1,574	0	0	0	328	320	0	152	0	0	774
Clark U.	276	1,572	17	206	482	0	635	0	232	0	0	0
California State U., Long Beach	277	1,561	9	191	54	277	507	305	38	0	33	147
Desert Research Institute	278	1,557	0	1,557	0	0	0	0	0	0	0	0
Pace U.	279	1,497	430	0	53	0	0	0	0	0	0	1,014
Hope C.	280	1,459	0	0	270	0	1,042	0	0	0	147	0
Wesleyan U.	281	1,455	0	17	43	215	456	438	11	0	0	275
California State U., Sacramento	282	1,437	208	24	7	34	125	54	7	15	147	816
Spelman C.	283	1,431	13	0	575	96	425	269	53	0	0	0
Smith C.	284	1,415	221	5	391	94	265	0	0	0	439	0
Texas Southern U.	284	1,415	106	79	0	167	1,036	0	0	0	27	0
James Madison U.	286	1,400	26	45	417	15	856	0	0	0	39	2
Arkansas State U., Jonesboro	287	1,395	9	0	772	0	347	0	0	267	0	0
U. San Diego	288	1,393	0	100	19	31	392	0	0	0	518	333
CUNY, Hunter C.	289	1,386	99	7	96	22	460	23	383	0	0	296
U. Texas Southwestern Medical Center	290	1,384	0	0	1,384	0	0	0	0	0	0	0
U. Maryland, Eastern Shore	291	1,380	0	1,380	0	0	0	0	0	0	0	0
Harvey Mudd C.	292	1,349	512	0	316	33	163	0	0	69	256	0
Middlebury C.	293	1,340	85	364	539	0	271	0	81	0	0	0
Alabama State U.	294	1,322	0	0	1,322	0	0	0	0	0	0	0
Rockefeller U.	295	1,318	0	0	1,096	41	181	0	0	0	0	0
Bates C.	296	1,303	19	26	992	0	196	43	27	0	0	0
U. Virginia's C. Wise	297	1,297	1,174	0	105	0	18	0	0	0	0	0
Icahn School of Medicine at Mount Sinai	298	1,293	0	0	1,293	0	0	0	0	0	0	0
Virginia State U.	299	1,261	0	0	38	217	0	95	0	0	56	855
Central Michigan U.	300	1,252	0	278	732	1	21	14	111	0	95	0
C. Charleston	301	1,249	169	468	281	0	331	0	0	0	0	0
California State U., Chico	302	1,246	0	414	0	0	162	0	0	0	505	165
Southern Illinois U., Edwardsville	303	1,238	11	144	36	33	176	0	56	0	7	775
Murray State U.	304	1,220	0	0	808	306	26	0	0	0	0	80

TABLE 64

## Federally financed higher education R&amp;D expenditures, financed by the National Science Foundation, ranked by NSF R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	NSF R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Puerto Rico, Medical Sciences Campus	305	1,216	0	0	1,216	0	0	0	0	0	0	0
Reed C.	306	1,215	65	0	823	125	137	63	2	0	0	0
Fort Lewis C.	307	1,203	0	0	0	4	761	0	0	0	438	0
U. of St. Thomas (MN)	308	1,202	323	222	113	28	60	0	0	0	456	0
Sonoma State U.	309	1,194	0	481	211	226	209	53	0	14	0	0
U. Missouri, Saint Louis	310	1,193	0	0	278	211	356	0	126	0	0	222
U. Michigan, Dearborn	311	1,186	0	0	52	81	0	0	0	0	1,053	0
Chapman U.	312	1,176	0	30	356	0	190	0	22	0	8	570
CUNY, C. Staten Island	313	1,168	2	0	125	301	333	172	0	0	235	0
Kennesaw State U.	314	1,163	35	0	141	57	375	0	292	0	47	216
Elizabeth City State U.	315	1,152	466	0	637	0	0	0	0	0	0	49
Oregon Health and Science U.	316	1,150	0	0	671	0	0	0	0	0	479	0
Catholic U. of America	317	1,149	0	0	41	53	387	198	0	0	470	0
Carleton C.	318	1,142	40	759	115	17	211	0	0	0	0	0
Fayetteville State U.	319	1,138	30	0	0	0	147	0	0	0	145	816
U. Massachusetts, Medical School	320	1,118	0	0	1,118	0	0	0	0	0	0	0
Georgia Southern U.	321	1,105	38	116	126	30	555	0	0	8	157	75
Cleveland State U.	322	1,096	0	0	0	126	0	96	0	0	484	390
California State U., Monterey Bay	323	1,091	721	233	68	12	57	0	0	0	0	0
Hofstra U.	324	1,086	0	36	267	0	0	0	0	0	478	305
CUNY, Brooklyn C.	325	1,082	290	4	196	65	357	37	1	0	0	132
Colgate U.	326	1,063	65	403	309	65	196	0	25	0	0	0
West Texas A&M U.	327	1,048	161	562	0	0	169	0	0	0	156	0
Skidmore C.	328	1,044	0	141	330	0	557	16	0	0	0	0
Central Washington U.	329	1,041	0	543	122	149	182	0	0	0	45	0
Bucknell U.	330	1,026	82	0	280	76	267	0	0	0	321	0
Seattle U.	331	1,023	0	54	25	25	79	0	0	0	0	840
California State U., Stanislaus	332	1,009	186	0	417	253	0	118	35	0	0	0
Pennsylvania State U., Behrend	333	1,005	77	42	0	166	126	12	37	0	294	251
Amherst C.	334	999	35	6	211	162	476	109	0	0	0	0
Appalachian State U.	335	993	301	144	265	0	167	38	78	0	0	0

TABLE 64

## Federally financed higher education R&amp;D expenditures, financed by the National Science Foundation, ranked by NSF R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	NSF R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Arkansas, Little Rock	336	980	595	0	128	0	257	0	0	0	0	0
New Mexico Highlands U.	337	976 i	141 i	198 i	69 i	0 i	568 i	0 i	0 i	0 i	0 i	0 i
U. New Orleans	338	972	0	9	144	20	652	0	37	0	110	0
Rutgers, State U. New Jersey, Camden	339	961	903	0	0	0	0	0	58	0	0	0
Union C., Schenectady	340	952	57	198	4	0	102	0	0	0	591	0
U. North Florida	341	947	166	0	159	0	264	0	12	0	25	321
CUNY, Baruch C.	342	925	23	8	495	203	0	168	19	0	0	9
Florida Gulf Coast U.	343	924	13	732	62	0	106	3	5	0	0	3
California State U., Bakersfield	344	918	0	29	0	677	159	0	0	0	53	0
Williams C.	345	915 i	62 i	100 i	249 i	236 i	212 i	0 i	56 i	0 i	0 i	0 i
Dakota State U.	346	912	752	32	80	0	48	0	0	0	0	0
SUNY, C. of Environmental Science and Forestry	347	910	0	409	211	0	68	0	6	0	216	0
Sam Houston State U.	348	900	0	85	181	404	230	0	0	0	0	0
Naval Postgraduate School	349	881	152	563	0	22	5	0	0	0	139	0
California State U., Dominguez Hills	350	874	496	0	61	16	0	21	62	0	0	218
Xavier U. Louisiana	351	841	73	0	226	0	484	0	0	0	26	32
U. Dayton	352	838	49	11	205	0	181	0	0	0	356	36
Mount Holyoke C.	353	836	150	0	119	57	421	69	20	0	0	0
Towson U.	353	836	189	81	222	94	250	0	0	0	0	0
Marshall U.	355	833	35	38	627	0	29	0	0	0	104	0
U. Nebraska, Medical Center	356	830	0	0	830	0	0	0	0	0	0	0
California State U., Channel Islands	357	828	0	0	0	248	73	0	0	388	79	40
U. Nebraska, central administration	358	823	0	0	823	0	0	0	0	0	0	0
Bowdoin C.	359	822	74	19	529	5	125	0	1	0	0	69
CUNY, New York City C. of Technology	360	814	156	0	113	0	195	0	5	0	32	313
Northwest Indian C.	361	813 i	1 i	443 i	92 i	0 i	0 i	0 i	0 i	0 i	0 i	277 i
Northeastern Illinois U.	362	802	46	68	0	71	34	0	40	0	0	543
U. Texas Medical Branch	363	792	0	0	792	0	0	0	0	0	0	0
Santa Clara U.	364	791	0	0	51	15	246	0	63	0	286	130
Purdue U., Northwest	365	784	146	0	13	0	102	0	0	40	483	0



TABLE 64

## Federally financed higher education R&amp;D expenditures, financed by the National Science Foundation, ranked by NSF R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	NSF R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Citadel Military C. South Carolina	366	780	254	0	0	0	0	0	0	0	71	455
U. Texas Health Science Center, Houston	367	773	0	0	773	0	0	0	0	0	0	0
Willamette U.	368	770	0	0	277	0	83	0	0	0	0	410
CUNY, system office	369	768	0	0	37	0	0	0	0	0	731	0
U. Northern Colorado	369	768	0	117	197	18	53	50	333	0	0	0
Doane U.	371	754	i 189	i 0	i 276	i 0	i 67	i 0	i 0	i 0	i 0	i 222
Fordham U.	372	748	0	0	359	70	168	73	0	0	0	78
Texas A&M U.-Commerce	373	747	0	0	0	0	691	0	0	0	0	56
U. Hawaii, Maui C.	374	736	432	0	194	0	0	0	0	0	0	110
C. New Jersey	375	722	175	0	227	10	310	0	0	0	0	0
New School	376	720	0	143	27	0	0	144	42	0	364	0
Alabama A&M U.	377	711	i 99	i 0	i 117	i 29	i 147	i 11	i 21	i 0	i 239	i 48
U. New Haven	378	706	633	73	0	0	0	0	0	0	0	0
Pacific U.	379	697	0	0	76	3	223	0	4	0	0	391
Johnson C. Smith U.	380	688	i 0	i 0	i 0	i 0	i 318	i 0	i 0	i 0	i 370	i 0
U. Texas M. D. Anderson Cancer Center	381	669	0	0	591	26	52	0	0	0	0	0
Wright State U.	382	663	0	60	138	0	203	6	0	0	256	0
Furman U.	383	662	0	0	9	0	496	157	0	0	0	0
Eastern Michigan U.	384	656	0	42	348	78	37	0	9	0	0	142
U. Washington, Tacoma	385	655	164	111	9	25	0	0	44	0	0	302
Black Hills State U.	386	654	295	0	234	0	94	0	0	0	0	31
Fielding Graduate U.	387	640	0	0	0	0	0	0	640	0	0	0
Tougaloo C.	387	640	i 0	i 0	i 311	i 0	i 329	i 0	i 0	i 0	i 0	i 0
U. Richmond	389	631	0	0	293	0	202	99	37	0	0	0
Bryn Mawr C.	390	619	134	0	136	121	228	0	0	0	0	0
U. West Florida	391	618	305	0	69	0	14	0	0	0	0	230
Western Kentucky U.	392	614	0	82	105	4	328	8	0	0	74	13
New York Institute of Technology	393	609	183	0	17	0	3	0	0	0	391	15
Alfred U.	394	603	0	0	0	0	0	0	0	0	603	0
Vassar C.	394	603	142	0	60	301	58	8	34	0	0	0
Bowie State U.	396	601	115	0	72	0	387	0	0	0	0	27

TABLE 64

## Federally financed higher education R&amp;D expenditures, financed by the National Science Foundation, ranked by NSF R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	NSF R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Saint Joseph's U.	396	601	0	0	246	0	0	2	0	0	0	353
U. Puerto Rico, Humacao	398	600	0	17	0	0	583	0	0	0	0	0
Swarthmore C.	399	595	0	0	252	67	176	0	42	21	0	37
U. Wisconsin-Eau Claire	400	592	0	5	42	49	496	0	0	0	0	0
Colby C.	401	585	78	144	102	0	134	0	0	0	0	127
Franklin and Marshall C.	402	574	0	0	261	0	304	9	0	0	0	0
Creighton U.	403	563	i 130	i 0	i 86	i 36	i 221	i 14	i 27	i 0	i 0	i 49
U. Northern Iowa	404	559	0	0	0	0	15	0	544	0	0	0
Pomona C.	405	558	118	40	160	73	163	4	0	0	0	0
California State U., Maritime Academy	406	548	0	0	0	0	0	0	0	0	450	98
Christopher Newport U.	407	533	0	0	0	172	351	0	0	0	0	10
Lewis and Clark C.	407	533	0	152	215	56	110	0	0	0	0	0
Salisbury U.	409	524	100	37	88	0	0	0	0	0	0	299
SUNY, Geneseo	410	516	0	84	0	0	421	0	11	0	0	0
Duquesne U.	411	511	0	0	77	40	343	0	0	0	0	51
Texas Woman's U.	411	511	11	0	494	0	6	0	0	0	0	0
Haverford C.	413	506	16	79	0	12	365	34	0	0	0	0
Central State U.	414	504	0	0	105	69	67	0	0	164	99	0
U. North Carolina, Asheville	415	502	96	70	0	0	35	0	0	0	0	301
Medical C. Wisconsin	416	485	0	0	312	0	0	0	0	0	173	0
Louisiana State U., Health Sciences Center, New Orleans	417	481	0	0	481	0	0	0	0	0	0	0
Franklin W. Olin C. of Engineering	418	479	0	0	0	0	0	0	0	0	479	0
Davidson C.	419	472	0	0	211	6	158	17	80	0	0	0
East Tennessee State U.	420	471	0	0	367	37	67	0	0	0	0	0
Providence C.	421	470	0	144	242	0	67	0	0	0	17	0
Roger Williams U.	422	469	0	66	226	0	0	0	0	0	0	177
U. Alaska, Southeast	423	467	0	27	381	0	0	0	0	59	0	0
Morehouse School of Medicine	424	463	0	0	463	0	0	0	0	0	0	0
St. John's U., New York	425	453	59	0	194	0	198	2	0	0	0	0
Macalester C.	426	445	0	172	10	58	205	0	0	0	0	0
Fort Valley State U.	427	431	0	18	337	0	76	0	0	0	0	0

TABLE 64

**Federally financed higher education R&D expenditures, financed by the National Science Foundation, ranked by NSF R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	NSF R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Texas Tech U., Health Sciences Center	428	429	0	0	410	0	0	0	0	0	0	19
Trinity C., Hartford	429	421	0	0	287	54	80	0	0	0	0	0
U.S. Naval Academy	430	420	64	34	0	24	217	0	0	0	81	0
Montana Technological U.	431	416	0	141	0	0	38	0	0	0	237	0
Pepperdine U.	431	416	0	0	111	0	0	0	0	0	0	305
U. Central Oklahoma	431	416 i	139 i	0 i	129 i	98 i	4 i	0 i	0 i	46 i	0 i	0 i
Texas Christian U.	434	412	86	0	0	0	121	45	28	0	0	132
U. Wisconsin-La Crosse	435	410	31	0	0	70	309	0	0	0	0	0
Missouri State U.	436	405	0	105	141	0	77	28	54	0	0	0
Winthrop U.	437	395	30	0	7	0	221	0	0	1	0	136
Gallaudet U.	438	392	134	0	0	0	89	152	7	0	0	10
Dordt U.	439	389	69	0	207	84	0	0	0	0	29	0
Ball State U.	440	388	22	0	20	16	242	80	8	0	0	0
Grambling State U.	441	386	0	0	0	0	386	0	0	0	0	0
CUNY, John Jay C. of Criminal Justice	442	385	10	0	48	12	45	80	30	45	0	115
Milwaukee School of Engineering	442	385	47	0	0	0	0	0	0	0	338	0
Calvin U.	444	381 i	11 i	0 i	155 i	0 i	194 i	0 i	0 i	0 i	21 i	0 i
Grand Valley State U.	445	378	0	24	238	18	61	29	0	0	0	8
Humboldt State U.	445	378	27	266	78	0	7	0	0	0	0	0
Oberlin C.	447	373	30	25	89	39	190	0	0	0	0	0
Trinity U.	447	373	0	14	0	37	322	0	0	0	0	0
Augustana U.	449	362	0	0	134	0	228	0	0	0	0	0
Colorado C.	450	361	0	96	97	0	0	0	0	0	0	168
Medical U. South Carolina	451	351	0	0	351	0	0	0	0	0	0	0
U. New England	451	351	0	113	238	0	0	0	0	0	0	0
Claremont McKenna C.	453	349	0	0	159	103	56	31	0	0	0	0
Grinnell C.	454	344	77	0	17	63	124	0	28	0	0	35
Lamar U.	455	338	33	0	17	83	49	0	0	0	142	14
U. Texas Health Science Center, San Antonio	456	337	0	0	337	0	0	0	0	0	0	0
Indiana U., South Bend	457	336	0	0	0	0	256	0	5	0	0	75

TABLE 64

**Federally financed higher education R&D expenditures, financed by the National Science Foundation, ranked by NSF R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	NSF R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Arkansas for Medical Sciences	457	336	0	0	336	0	0	0	0	0	0	0
William Paterson U.	459	333	0	309	24	0	0	0	0	0	0	0
Minnesota State U., Mankato	460	331	0	6	206	0	0	0	0	0	119	0
SUNY, Buffalo State	461	320	0	208	0	112	0	0	0	0	0	0
CUNY, York C.	462	319	0	319	0	0	0	0	0	0	0	0
Youngstown State U.	463	317	28	0	0	0	268	0	0	0	21	0
Western Carolina U.	464	307	0	47	185	3	0	0	0	0	72	0
St. Cloud State U.	465	304	0	0	0	0	0	0	0	0	0	304
Long Island U.	466	297	5	150	8	0	123	0	0	0	0	11
Eastern Kentucky U.	467	293	0	0	122	0	115	0	0	0	56	0
Lincoln U., Jefferson City	468	291	6	23	172	90	0	0	0	0	0	0
U. Oklahoma, Tulsa	469	290	0	0	0	0	0	0	0	0	290	0
Clafin U.	470	288	32	26	1	0	57	0	107	0	65	0
Northland C.	470	288	0	45	173	31	0	15	7	0	0	17
Lafayette C.	472	286	0	0	0	13	180	0	0	0	84	9
U. of the Incarnate Word	473	285	0	0	5	42	238	0	0	0	0	0
U. Central Arkansas	474	281	15	0	7	16	227	0	0	0	0	16
Savannah State U.	475	276	0	186	3	0	34	0	0	31	22	0
Mills C.	476	275	0	0	0	0	0	0	0	0	0	275
West Chester U. Pennsylvania	477	274	0	0	98	0	111	0	0	0	0	65
Colorado State U., Pueblo	478	270	190	0	18	19	0	0	0	0	43	0
Ithaca C.	479	266	73	20	0	74	15	0	84	0	0	0
Loyola Marymount U.	480	265	0	0	195	70	0	0	0	0	0	0
West Virginia State U.	481	263	0	0	263	0	0	0	0	0	0	0
Yeshiva U.	482	258	0	0	5	0	253	0	0	0	0	0
Albany State U.	483	254	0	0	90	0	74	0	0	0	0	90
Dillard U.	483	254	0	41	213	0	0	0	0	0	0	0
U. Houston-Downtown	485	248	41	35	0	17	88	0	0	0	0	67
U. Wisconsin-Oshkosh	485	248	0	114	12	0	5	0	0	0	73	44
Drake U.	487	245	0	0	14	27	193	0	11	0	0	0
U. Nebraska, Kearney	487	245	0	0	159	0	40	5	0	0	0	41
U. of the Pacific	489	241	0	43	61	0	131	6	0	0	0	0

TABLE 64

## Federally financed higher education R&amp;D expenditures, financed by the National Science Foundation, ranked by NSF R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	NSF R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
St. Olaf C.	490	236	85	10	138	0	3	0	0	0	0	0
U. Texas, Tyler	491	231	13	0	122	2	0	0	18	0	76	0
Stephen F. Austin State U.	492	226	0	0	0	93	0	0	0	0	0	133
Kean U.	493	224	151	61	0	0	0	0	0	12	0	0
U. of Mary Washington	494	223	0	25	119	4	75	0	0	0	0	0
Florida Polytechnic U.	495	220	47	0	0	0	0	0	0	0	138	35
Southern Connecticut State U.	495	220	0	0	0	0	200	2	0	9	0	9
Keene State C.	497	218	0	0	104	0	0	0	0	0	114	0
Coastal Carolina U.	498	216	21	120	75	0	0	0	0	0	0	0
Northern Michigan U.	499	211	37	89	68	0	0	0	17	0	0	0
Kentucky State U.	500	210	15	2	0	193	0	0	0	0	0	0
Indiana U. Pennsylvania	501	209	0	32	43	0	84	50	0	0	0	0
Purdue U., Fort Wayne	502	207	0	0	0	5	82	0	0	0	120	0
Texas A&M International U.	503	206	0	0	0	0	0	0	0	206	0	0
Sacred Heart U.	504	201	7	0	0	0	64	0	0	24	0	106
U. Ana G. Mendez, Gurabo	504	201	0	0	172	0	29	0	0	0	0	0
Hamilton C.	506	199	0	0	86	0	8	0	105	0	0	0
Northern Kentucky U.	507	195	3	0	0	59	123	0	10	0	0	0
Pratt Institute	508	194	0	0	0	0	0	0	0	0	0	194
Augusta U.	509	180	48	0	88	44	0	0	0	0	0	0
Manhattan C.	510	176	0	0	0	108	0	0	0	0	68	0
Marymount U.	511	174	174	0	0	0	0	0	0	0	0	0
Canisius C.	512	173	0	0	0	0	173	0	0	0	0	0
Hobart and William Smith Colleges	513	165	0	19	37	5	104	0	0	0	0	0
Lipscomb U.	514	161	0	0	0	0	0	0	0	0	142	19
U. Arkansas, Pine Bluff	515	160	0	0	0	0	160	0	0	0	0	0
Claremont Graduate U.	516	148	0	0	0	27	0	52	38	0	0	31
CUNY, Graduate School of Public Health and Health Policy	517	147	0	0	147	0	0	0	0	0	0	0
C. Wooster	518	146	0	22	3	58	63	0	0	0	0	0
U. Wisconsin-River Falls	518	146	86	0	0	0	60	0	0	0	0	0
U. Baltimore	520	144	16	0	0	0	0	0	128	0	0	0



TABLE 64

## Federally financed higher education R&amp;D expenditures, financed by the National Science Foundation, ranked by NSF R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	NSF R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields	
Austin Peay State U.	550	86	0	0	86	0	0	0	0	0	0	0	
SUNY, Upstate Medical U.	553	83	0	0	83	0	0	0	0	0	0	0	
Andrews U.	554	82	0	32	0	0	0	0	0	0	50	0	
Connecticut C.	555	79	0	0	79	0	0	0	0	0	0	0	
Central Connecticut State U.	556	76	0	0	0	0	21	0	0	0	0	55	
Elon U.	557	75	0	0	23	11	0	28	0	0	13	0	
Wheaton C., Wheaton	557	75	0	56	0	0	19	0	0	0	0	0	
Abilene Christian U.	559	74	0	0	0	0	74	0	0	0	0	0	
Albion C.	559	74	i	0	i	0	i	0	i	0	i	0	i
Biola U.	561	72	i	9	i	0	i	6	i	3	i	15	i
U. Massachusetts, central office	562	70	0	0	0	0	0	0	0	0	0	70	
Northeast Ohio Medical U.	563	69	0	0	54	0	0	0	15	0	0	0	
U. Detroit Mercy	564	68	0	0	39	0	0	0	0	0	29	0	
U. Wisconsin-Platteville	564	68	i	12	i	0	i	11	i	5	i	15	i
Rush U.	566	64	0	0	64	0	0	0	0	0	0	0	
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	567	57	0	0	57	0	0	0	0	0	0	0	
Pittsburg State U.	568	56	0	0	56	0	0	0	0	0	0	0	
U.S. Military Academy	568	56	56	0	0	0	0	0	0	0	0	0	
Mercyhurst U.	570	52	i	11	i	7	i	7	i	3	i	18	i
Rhode Island School of Design	571	49	i	0	i	0	i	0	i	0	i	13	i
Erikson Institute	572	42	0	0	0	0	0	0	0	0	0	42	
Langston U.	572	42	0	0	0	0	26	0	0	0	0	16	
U. North Texas, Health Science Center	572	42	0	0	42	0	0	0	0	0	0	0	
U. Southern Maine	575	41	0	7	2	11	0	0	21	0	0	0	
Keck Graduate Institute	576	40	i	0	i	0	i	12	i	0	i	0	i
SUNY, Downstate Health Sciences U.	577	38	0	0	38	0	0	0	0	0	0	0	
Jacksonville State U.	578	37	0	0	31	0	0	0	0	0	6	0	
Oregon Institute of Technology	578	37	i	11	i	1	i	13	i	5	i	0	i
Troy U.	578	37	0	0	37	0	0	0	0	0	0	0	
U. Louisiana, Monroe	578	37	0	35	2	0	0	0	0	0	0	0	

TABLE 64

**Federally financed higher education R&D expenditures, financed by the National Science Foundation, ranked by NSF R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	NSF R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Western Illinois U.	582	35	0	0	19	0	16	0	0	0	0	0
U. Wisconsin-Stevens Point	583	33	0	0	20	0	13	0	0	0	0	0
Oklahoma State U., Center for Health Sciences	584	32	0	0	0	0	0	0	0	0	32	0
Monmouth U.	585	27	0	0	0	0	15	12	0	0	0	0
Pennsylvania State U., Harrisburg	586	21	1	0	18	2	0	0	0	0	0	0
Touro U.	586	21	0	0	21	0	0	0	0	0	0	0
C. of Saint Benedict	588	20	2	0	6	2	7	1	1	0	0	1
U. Texas of the Permian Basin	589	18	0	0	0	0	0	18	0	0	0	0
Kettering U.	590	17	0	0	0	0	14	0	0	0	3	0
Azusa Pacific U.	591	15	9	0	0	0	0	0	0	0	0	6
U. Illinois, Springfield	591	15	0	0	0	0	0	0	0	0	0	15
Nova Southeastern U.	593	12	0	12	0	0	0	0	0	0	0	0
Thomas Jefferson U.	593	12	0	0	12	0	0	0	0	0	0	0
Edward Via C. of Osteopathic Medicine	595	11	0	0	11	0	0	0	0	0	0	0
Framingham State U.	595	11	0	0	0	0	0	11	0	0	0	0
U. Puerto Rico, Cayey	595	11	0	0	11	0	0	0	0	0	0	0
U. Wisconsin-Superior	595	11	0	11	0	0	0	0	0	0	0	0
Albert Einstein C. of Medicine	599	9	0	0	9	0	0	0	0	0	0	0
Marshall B. Ketchum U.	600	7	0	0	7	0	0	0	0	0	0	0
Meharry Medical C.	600	7	0	0	7	0	0	0	0	0	0	0
U. California, Office of the President	602	5	0	0	1	0	0	0	0	4	0	0
Des Moines U.	603	1	0	1	0	0	0	0	0	0	0	0
Stockton U.	603	1	0	1	0	0	0	0	0	0	0	0

i = imputed.

NSF = National Science Foundation; nec = not elsewhere classified; S&amp;E = science and engineering.

<sup>a</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

<sup>b</sup> Johns Hopkins University includes the Applied Physics Laboratory, with \$2,484 thousand in R&D expenditures financed by NSF in FY 2021.

<sup>c</sup> The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee



campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

<sup>d</sup> The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

**Note(s):**

Institutions reporting zero expenditures in ranked total for FY 2021 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2021.

TABLE 65

**Federally financed higher education R&D expenditures, financed by the Department of Agriculture, ranked by USDA R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	USDA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
All institutions	-	1,302,288	8,684	32,879	1,068,850	4,813	6,267	4,848	57,977	5,285	75,250	37,435
Colorado State U., Fort Collins	1	46,659	171	2,857	39,969	414	76	0	1,455	91	1,500	126
Washington State U.	2	44,992	0	786	38,757	0	0	0	2,290	11	2,634	514
North Carolina State U.	3	42,046	2	1,060	37,245	219	0	58	1,355	102	1,997	8
U. Florida	4	41,970	0	413	38,228	0	70	0	819	0	2,237	203
Texas A&M U., College Station and Health Science Center	5	39,429	259	1,726	33,587	0	33	0	2,558	0	563	703
Iowa State U.	6	38,170	203	460	24,362	3,559	48	0	2,312	0	3,532	3,694
Cornell U.	7	37,981	23	21	35,181	0	0	135	167	0	1,112	1,342
Ohio State U.	8	37,042	0	66	20,226	0	5	0	1,316	7	3,016	12,406
U. California, Davis	9	34,370	0	944	31,655	0	531	0	356	0	884	0
U. Minnesota, Twin Cities	10	33,840	263	0	24,230	0	0	98	1,745	0	7,279	225
U. Georgia	11	33,772	21	83	26,599	0	0	37	6,441	0	523	68
Pennsylvania State U., University Park and Hershey Medical Center	12	32,604	9	324	23,743	3	55	2,713	2,935	0	939	1,883
Oregon State U.	13	32,602	2,697	195	25,963	26	19	0	680	0	2,981	41
Michigan State U.	14	32,154	88	744	26,841	43	6	0	1,754	7	2,494	177
Mississippi State U.	15	31,679	54	44	29,777	0	184	0	612	337	663	8
Rutgers, State U. New Jersey, New Brunswick	16	31,334	0	0	30,224	0	41	0	810	0	259	0
U. Wisconsin-Madison	17	26,285	0	18	22,383	0	0	0	1,383	164	2,313	24
Purdue U., West Lafayette	18	24,457	63	0	18,187	16	0	0	1,370	0	4,457	364
U. Maryland <sup>a</sup>	19	23,512	137	1,254	20,400	0	34	0	36	0	1,591	60
Kansas State U.	20	22,553	126	3	17,670	23	0	839	2,272	0	857	763
U. Missouri, Columbia	21	22,400	0	0	21,959	0	0	0	118	0	288	35
U. Nebraska, Lincoln	22	20,979	62	0	18,309	67	0	29	66	0	2,102	344
Virginia Polytechnic Institute and State U.	23	20,941	315	20	17,709	76	186	0	1,711	0	662	262
U. Illinois, Urbana-Champaign	24	19,849	619	0	16,148	2	42	607	42	2	2,250	137
Auburn U., Auburn	25	18,227	0	652	16,381	0	360	0	34	79	597	124
U. Tennessee, Knoxville	26	16,954	0	56	12,821	0	0	0	99	1,819	2,159	0
U. Maine	27	15,518	4	548	13,687	0	0	0	0	0	483	796
U. Idaho	28	14,711	0	241	12,053	0	0	0	1,882	0	509	26
U. Arizona	29	14,356	86	102	11,860	13	0	0	119	0	2,115	61

TABLE 65

## Federally financed higher education R&amp;D expenditures, financed by the Department of Agriculture, ranked by USDA R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	USDA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Baylor C. of Medicine	30	14,129	0	0	14,129	0	0	0	0	0	0	0
Tufts U.	31	13,500	0	0	13,265	0	120	0	112	0	0	3
U. Vermont	32	12,829	0	0	12,522	0	0	0	307	0	0	0
Montana State U., Bozeman	33	12,722	39	192	12,089	0	0	0	9	0	369	24
North Dakota State U.	34	12,525	0	0	10,958	15	14	0	185	0	1,260	93
U. Kentucky	35	12,511	187	0	9,978	0	0	0	720	0	1,075	551
U. California, Riverside	36	12,071	99	1,817	9,688	0	52	0	18	0	397	0
U. Arkansas, Fayetteville	37	11,136	9	320	9,427	0	0	0	12	0	1,077	291
Tennessee State U.	38	10,744	67	0	10,589	0	0	0	0	0	0	88
Oklahoma State U., Stillwater	39	10,229	48	0	8,233	0	0	0	60	0	952	936
Louisiana State U., Baton Rouge	40	10,062	0	113	8,977	0	0	0	380	0	473	119
Utah State U.	41	9,611	0	0	8,744	2	136	34	505	0	170	20
New Mexico State U.	42	9,378	0	774	7,900	0	0	0	80	146	386	92
U. Hawaii, Manoa	43	9,056	0	0	7,866	0	0	0	43	909	238	0
Florida A&M U.	44	8,232	0	432	7,603	0	0	0	0	0	197	0
U. New Hampshire	45	7,980	0	404	7,573	0	0	0	0	0	0	3
West Virginia U.	46	7,977	0	25	7,355	0	0	0	112	212	261	12
U. Washington, Seattle	47	7,815	0	540	7,170	0	0	0	11	0	94	0
U. Massachusetts, Amherst	48	7,605	0	163	6,813	17	57	0	312	0	243	0
South Dakota State U.	49	7,540	0	57	6,368	0	15	202	270	0	625	3
Alcorn State U.	50	7,158	0	0	3,626	0	0	0	3,532	0	0	0
Clemson U.	51	6,387	687	0	3,239	0	0	0	488	0	140	1,833
U. Nevada, Reno	52	6,119	105	338	4,285	0	52	0	1,083	0	256	0
U. Mississippi	53	5,986	0	43	3,072	0	1,135	0	0	0	774	962
North Carolina Agricultural and Technical State U.	54	5,837	0	0	5,806	0	0	0	0	0	31	0
Tuskegee U.	55	5,460	0	0	5,220	0	0	0	240	0	0	0
Lincoln U., Jefferson City	56	5,330	0	37	5,272	0	0	0	21	0	0	0
U. Connecticut	57	5,251	0	0	3,965	0	0	40	1,148	0	98	0
Prairie View A&M U.	58	5,141	0	0	4,915	0	0	0	17	0	209	0
U. Rhode Island	59	5,129	0	2,754	1,695	0	0	0	564	116	0	0
U. Montana, Missoula	60	5,006	90	52	4,071	0	0	0	762	0	0	31

TABLE 65

**Federally financed higher education R&D expenditures, financed by the Department of Agriculture, ranked by USDA R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	USDA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Delaware	61	4,394	0	105	3,926	0	0	0	363	0	0	0
U. of the Virgin Islands	62	4,251	0	0	4,251	0	0	0	0	0	0	0
Northern Arizona U.	63	4,199	0	74	3,934	0	0	0	49	56	86	0
Tarleton State U.	64	4,186	0	414	3,772	0	0	0	0	0	0	0
Fort Valley State U.	65	3,976	0	0	3,976	0	0	0	0	0	0	0
U. Louisiana, Lafayette	66	3,679	0	0	109	0	2	0	2,006	0	5	1,557
Texas A&M U.-Kingsville	67	3,631	0	0	3,528	0	0	0	0	0	103	0
Central State U.	68	3,549	0	102	3,447	0	0	0	0	0	0	0
U. Guam	69	3,536	0	12	3,446	0	0	0	0	0	0	78
U. Maryland, Eastern Shore	70	3,516	0	0	3,407	0	0	0	0	0	109	0
Kentucky State U.	71	3,506	0	0	3,506	0	0	0	0	0	0	0
U. California, Berkeley	72	3,468	0	0	2,488	0	0	0	0	386	536	58
Southern U. and A&M C., Agricultural Research and Extension Center	73	3,448	0	0	3,448	0	0	0	0	0	0	0
West Virginia State U.	74	3,295	2	0	3,293	0	0	0	0	0	0	0
U. Wyoming	75	3,142	0	0	3,142	0	0	0	0	0	0	0
Virginia State U.	76	3,092	0	8	3,084	0	0	0	0	0	0	0
U. Arkansas, Pine Bluff	77	2,861	0	0	2,861	0	0	0	0	0	0	0
Delaware State U.	78	2,791	0	164	2,538	0	0	0	89	0	0	0
U. North Carolina, Chapel Hill	79	2,659	0	2	2,500	0	0	0	11	0	0	146
U. Alaska, Fairbanks	80	2,554	0	124	2,078	0	87	0	2	0	6	257
Florida Atlantic U.	81	2,351	0	0	2,035	0	0	0	0	0	316	0
Texas Tech U.	82	2,321	0	0	2,045	0	0	0	47	0	111	118
Langston U.	83	2,125	0	0	1,980	0	0	0	0	0	0	145
Arizona State U.	84	2,102	0	0	637	0	0	0	827	109	529	0
Baylor U.	85	2,087	0	4	2,056	0	0	0	27	0	0	0
U. Colorado Boulder	86	2,059	123	8	1,078	47	0	0	248	0	555	0
U. Nevada, Las Vegas	87	1,997	0	1,737	260	0	0	0	0	0	0	0
U. Michigan, Ann Arbor	88	1,988	16	0	1,732	0	0	0	221	0	11	8
U. Texas Health Science Center, Houston	89	1,962	0	0	1,962	0	0	0	0	0	0	0
U. of the District of Columbia	90	1,833	0	0	1,833	0	0	0	0	0	0	0
Western Illinois U.	91	1,831	0	0	1,831	0	0	0	0	0	0	0

TABLE 65

**Federally financed higher education R&D expenditures, financed by the Department of Agriculture, ranked by USDA R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	USDA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
SUNY, C. of Environmental Science and Forestry	92	1,630	0	120	1,338	0	0	0	7	0	165	0
Cold Spring Harbor Laboratory	93	1,626	0	0	1,626	0	0	0	0	0	0	0
U. Texas Rio Grande Valley	94	1,602	74	0	1,336	0	0	0	0	63	0	129
Drexel U.	95	1,581	0	0	1,483	0	0	0	0	0	98	0
U. California, Merced	96	1,557	0	80	269	0	0	0	0	43	650	515
U.S. Army War C.	97	1,488	0	0	0	0	0	0	1,488	0	0	0
U. California, San Diego	98	1,472	0	0	1,342	0	0	0	79	0	51	0
Temple U.	99	1,463	0	0	287	0	1,056	0	0	0	120	0
U. North Dakota	100	1,436	0	22	64	0	0	0	0	0	104	1,246
Georgia Institute of Technology	101	1,402	0	0	0	0	5	0	99	0	1,281	17
U. Southern Mississippi	102	1,317	0	34	243	0	0	0	0	0	0	1,040
U. California, Santa Cruz	103	1,306	0	820	364	0	0	0	75	0	0	47
Michigan Technological U.	104	1,291	0	1,290	0	0	0	0	1	0	0	0
Johns Hopkins U. <sup>b</sup>	105	1,284	2	303	512	0	6	0	0	0	461	0
U. Virginia, Charlottesville	106	1,236	0	18	1,156	0	0	0	52	0	0	10
California Polytechnic State U., San Luis Obispo	107	1,224	0	0	841	0	0	0	375	0	0	8
U. Oklahoma, Norman and Health Science Center	108	1,222	11	609	423	0	0	0	0	0	179	0
Southern Illinois U., Carbondale	109	1,073	0	0	767	0	0	0	0	306	0	0
U. Toledo	110	1,066	0	142	906	0	0	0	0	0	18	0
U. Puerto Rico, Mayaguez	111	1,044	0	0	834	0	53	0	24	0	133	0
Florida International U.	112	1,034	27	0	876	0	65	20	0	0	46	0
U. Pennsylvania	113	1,014	0	0	888	0	51	0	0	0	51	24
Carnegie Mellon U.	114	1,009	753	0	256	0	0	0	0	0	0	0
Arkansas State U., Jonesboro	115	1,001	0	0	818	0	30	0	153	0	0	0
Portland State U.	116	992	0	84	631	0	0	0	180	0	97	0
Boise State U.	117	978	0	27	824	0	0	0	0	0	106	21
New York U.	118	905	0	0	905	0	0	0	0	0	0	0
Indiana U. Pennsylvania	119	904	0	0	904	0	0	0	0	0	0	0
U. Utah	120	879	0	26	470	0	0	0	0	0	325	58

TABLE 65

## Federally financed higher education R&amp;D expenditures, financed by the Department of Agriculture, ranked by USDA R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	USDA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Vanderbilt U. and Vanderbilt U. Medical Center	120	879	0	0	462	0	0	0	0	0	417	0
Desert Research Institute	122	876	0	876	0	0	0	0	0	0	0	0
Illinois State U.	123	851	0	0	722	0	0	0	0	0	0	129
Colorado School of Mines	124	843	0	24	189	0	0	0	0	0	630	0
Syracuse U.	124	843	0	27	489	0	0	0	244	0	83	0
Florida State U.	126	840	0	94	664	0	82	0	0	0	0	0
American Samoa Community C.	127	815	0	0	0	0	0	0	815	0	0	0
Brigham Young U., Provo	128	807	0	0	764	0	0	0	26	0	17	0
U. South Florida <sup>c</sup>	129	786	0	22	272	0	0	0	341	0	94	57
Middle Tennessee State U.	130	757	9	0	700	0	9	0	0	0	0	39
U. New Mexico	130	757	0	57	700	0	0	0	0	0	0	0
Princeton U.	132	752	0	641	0	0	0	0	0	0	111	0
U. Iowa	133	740	0	0	384	0	0	0	3	0	308	45
Sam Houston State U.	134	725	0	0	659	13	0	0	53	0	0	0
U. Oregon	135	722	0	0	505	0	0	10	128	0	0	79
Humboldt State U.	136	684	0	6	299	0	0	0	379	0	0	0
U. North Carolina, Greensboro	137	674	0	0	530	0	0	0	15	0	0	129
U. Central Florida	138	669	13	0	298	0	25	0	45	0	142	146
Texas State U.	139	657	0	0	430	0	0	0	14	0	128	85
Hawaii Pacific U.	140	654	0	0	654	0	0	0	0	0	0	0
Chapman U.	141	642	0	12	630	0	0	0	0	0	0	0
U. Wisconsin-Stevens Point	142	639	0	46	461	0	0	0	0	0	132	0
Yale U.	143	633	0	0	633	0	0	0	0	0	0	0
Missouri State U.	144	628	0	0	589	0	0	0	39	0	0	0
U. Alabama, Tuscaloosa	145	595	162	0	96	0	0	0	166	0	165	6
Stephen F. Austin State U.	146	583	0	0	575	0	0	0	8	0	0	0
Tennessee Technological U.	147	571	0	0	454	0	0	0	0	0	117	0
Virginia Commonwealth U.	148	554	17	0	120	0	0	0	0	0	92	325
U. Puerto Rico, Rio Piedras	149	534	0	406	128	0	0	0	0	0	0	0
U. Texas, Austin	150	533	0	190	343	0	0	0	0	0	0	0
Illinois Institute of Technology	151	532	0	0	532	0	0	0	0	0	0	0

TABLE 65

**Federally financed higher education R&D expenditures, financed by the Department of Agriculture, ranked by USDA R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	USDA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Duke U.	152	512	11	59	231	0	0	0	112	0	96	3
St. Edward's U.	153	500	0	0	350	0	0	0	0	0	0	150
Western U. of Health Sciences	154	495	0	0	495	0	0	0	0	0	0	0
Wayne State U.	155	489	0	0	76	0	0	0	0	0	0	413
Washington U., Saint Louis	156	481	0	0	0	0	0	0	0	0	453	28
U. Maryland, Baltimore County	157	461	0	260	167	0	0	0	0	3	31	0
Western Kentucky U.	158	460	0	37	311	0	112	0	0	0	0	0
U. Texas, El Paso	159	454	0	51	61	0	40	0	36	0	266	0
California State U., Fresno	160	450	0	4	314	0	0	0	0	0	0	132
Ohio U.	161	444	0	0	51	0	375	0	18	0	0	0
Stanford U.	161	444	0	7	0	0	0	0	81	0	356	0
U. Notre Dame	163	429	48	0	321	0	25	0	0	0	35	0
U. Hawaii, Hilo	164	424	0	0	334	0	0	0	49	41	0	0
U. California, Santa Barbara	165	412	0	290	122	0	0	0	0	0	0	0
U. Massachusetts, Medical School	166	409	0	0	409	0	0	0	0	0	0	0
Missouri U. of Science and Technology	167	404	214	0	0	0	0	0	0	0	190	0
U. Arkansas for Medical Sciences	167	404	0	0	404	0	0	0	0	0	0	0
U. California, Los Angeles	169	400	0	175	51	0	0	0	0	0	174	0
Louisiana Tech U.	170	395	0	0	362	0	0	0	0	0	33	0
California State Polytechnic U., Pomona	171	391	0	0	391	0	0	0	0	0	0	0
Boston U.	172	389	0	222	158	0	0	0	9	0	0	0
U. Kansas	173	377	93	0	121	0	0	0	0	0	163	0
Long Island U.	174	372	0	0	372	0	0	0	0	0	0	0
U. Maryland Center for Environmental Science	175	365	0	9	223	0	0	0	133	0	0	0
U. Wisconsin-Milwaukee	176	342	0	117	225	0	0	0	0	0	0	0
Northwestern U.	177	307	0	0	85	0	0	0	0	0	222	0
U. South Alabama	178	306	0	27	0	0	0	0	206	0	73	0
U. North Texas, Denton	179	301	0	0	219	0	0	0	0	0	78	4
Worcester Polytechnic Institute	179	301	21	0	0	138	0	0	0	0	142	0
U. Minnesota, Duluth	181	296	0	18	275	0	0	0	0	0	3	0
U. Texas, San Antonio	182	295	0	12	128	0	49	0	0	0	106	0







TABLE 65

## Federally financed higher education R&amp;D expenditures, financed by the Department of Agriculture, ranked by USDA R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	USDA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields	
California State U., Bakersfield	246	115	0	0	43	0	0	0	0	0	72	0	
Icahn School of Medicine at Mount Sinai	246	115	0	0	115	0	0	0	0	0	0	0	
Old Dominion U.	248	114	0	0	68	0	19	0	9	0	18	0	
California State U., Northridge	249	108	0	0	9	0	99	0	0	0	0	0	
U. Chicago	249	108	0	0	13	0	0	0	60	0	35	0	
California State U., Sacramento	251	107	0	0	0	0	0	0	51	38	0	18	
California State U., San Bernardino	252	106	0	0	106	0	0	0	0	0	0	0	
U. Missouri, Saint Louis	253	104	0	0	104	0	0	0	0	0	0	0	
Roger Williams U.	254	103	0	89	14	0	0	0	0	0	0	0	
Texas Tech U., Health Sciences Center	255	102	0	0	102	0	0	0	0	0	0	0	
C. Charleston	256	101	0	23	78	0	0	0	0	0	0	0	
California State U., San Marcos	257	99	0	0	23	0	0	0	76	0	0	0	
New York Institute of Technology	258	98	0	0	98	0	0	0	0	0	0	0	
San Jose State U.	259	97	0	97	0	0	0	0	0	0	0	0	
Sul Ross State U.	260	94	i	0	i	0	i	0	i	0	i	0	i
U. Pittsburgh, Pittsburgh	261	92	0	0	69	0	0	0	0	0	23	0	
Occidental C.	262	88	0	0	88	0	0	0	0	0	0	0	
Hobart and William Smith Colleges	263	87	0	0	87	0	0	0	0	0	0	0	
U. Colorado Denver <sup>d</sup>	263	87	0	22	65	0	0	0	0	0	0	0	
Montana Technological U.	265	86	0	30	0	0	0	0	0	0	56	0	
U. Miami	265	86	0	0	83	0	0	0	0	0	3	0	
U. Houston	267	83	0	0	51	0	0	0	0	0	0	32	
Albany State U.	268	81	0	0	81	0	0	0	0	0	0	0	
U. Cincinnati	268	81	0	0	81	0	0	0	0	0	0	0	
Southern Illinois U., Edwardsville	270	77	0	0	60	0	0	0	0	0	0	17	
Rochester Institute of Technology	271	76	0	0	0	0	76	0	0	0	0	0	
U. Memphis	272	74	0	0	0	0	0	0	0	0	66	8	
Columbia U. in the City of New York	273	71	0	18	41	0	0	0	0	0	0	12	
Framingham State U.	274	69	i	0	i	0	i	69	i	0	i	0	i
Purdue U., Northwest	274	69	0	0	0	0	0	0	0	0	69	0	
U. Texas, Tyler	274	69	0	0	69	0	0	0	0	0	0	0	
Appalachian State U.	277	67	22	0	45	0	0	0	0	0	0	0	



TABLE 65

## Federally financed higher education R&amp;D expenditures, financed by the Department of Agriculture, ranked by USDA R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	USDA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields	
James Madison U.	310	40	0	6	0	0	15	0	19	0	0	0	
Reed C.	310	40	i	0	i	0	i	5	i	35	i	0	i
Western Washington U.	310	40	0	0	0	0	0	0	0	40	0	0	
Oakland U.	313	36	0	0	36	0	0	0	0	0	0	0	
Texas A&M International U.	314	35	0	0	0	0	0	0	0	0	0	35	
Northern Illinois U.	315	34	0	0	34	0	0	0	0	0	0	0	
Pratt Institute	315	34	0	0	0	0	0	0	0	0	0	34	
SUNY, Upstate Medical U.	315	34	0	0	34	0	0	0	0	0	0	0	
Grand Valley State U.	318	31	0	17	4	0	0	0	10	0	0	0	
U. Alaska, Anchorage	318	31	0	0	8	0	0	0	0	0	0	23	
Creighton U.	320	30	i	1	i	0	i	28	i	0	i	0	i
Alaska Pacific U.	321	29	0	0	29	0	0	0	0	0	0	0	
U. Washington, Tacoma	321	29	0	0	29	0	0	0	0	0	0	0	
San Francisco State U.	323	28	0	6	22	0	0	0	0	0	0	0	
Northeastern Illinois U.	324	27	0	0	27	0	0	0	0	0	0	0	
Loyola Marymount U.	325	26	0	24	0	0	0	0	2	0	0	0	
Oregon Health and Science U.	325	26	0	0	26	0	0	0	0	0	0	0	
Southern U. and A&M C., Baton Rouge	325	26	0	0	26	0	0	0	0	0	0	0	
Central Connecticut State U.	328	25	0	0	25	0	0	0	0	0	0	0	
U. Texas, Dallas	328	25	0	0	25	0	0	0	0	0	0	0	
Bowie State U.	330	24	0	0	24	0	0	0	0	0	0	0	
California State U., Los Angeles	330	24	0	23	1	0	0	0	0	0	0	0	
Georgia Southern U.	332	22	0	0	22	0	0	0	0	0	0	0	
Midwestern U.	332	22	0	0	22	0	0	0	0	0	0	0	
Purdue U., Fort Wayne	334	19	0	0	19	0	0	0	0	0	0	0	
Kennesaw State U.	335	18	0	0	18	0	0	0	0	0	0	0	
U. Tennessee, Chattanooga	335	18	0	0	0	0	0	0	0	18	0	0	
Fairfield U.	337	17	0	0	0	0	17	0	0	0	0	0	
Macalester C.	337	17	0	0	0	17	0	0	0	0	0	0	
Pennsylvania State U., Behrend	337	17	0	0	17	0	0	0	0	0	0	0	
U. North Georgia	337	17	0	17	0	0	0	0	0	0	0	0	
U. Texas M. D. Anderson Cancer Center	337	17	0	0	0	0	17	0	0	0	0	0	

TABLE 65

## Federally financed higher education R&amp;D expenditures, financed by the Department of Agriculture, ranked by USDA R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	USDA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Akron	342	16	0	0	0	0	6	0	0	0	0	10
U. North Texas, Health Science Center	342	16	0	0	16	0	0	0	0	0	0	0
C. New Jersey	344	15	0	0	15	0	0	0	0	0	0	0
Texas A&M U.-Corpus Christi	344	15	0	0	10	0	5	0	0	0	0	0
CUNY, Brooklyn C.	346	14	0	8	6	0	0	0	0	0	0	0
Seattle U.	346	14	0	0	4	0	0	0	0	0	10	0
U. of the Pacific	346	14	0	0	0	0	0	0	0	0	14	0
Morehead State U.	349	13	0	0	13	0	0	0	0	0	0	0
U. North Florida	349	13	0	0	13	0	0	0	0	0	0	0
Fordham U.	351	12	0	0	0	0	0	0	12	0	0	0
SUNY, Stony Brook U.	351	12	0	0	12	0	0	0	0	0	0	0
U. Texas Southwestern Medical Center	353	10	0	0	10	0	0	0	0	0	0	0
Canisius C.	354	9	0	0	0	0	0	0	0	9	0	0
U. Colorado Colorado Springs	354	9	0	9	0	0	0	0	0	0	0	0
U. Wisconsin-Green Bay	354	9 i	0 i	1 i	6 i	0 i	0 i	0 i	1 i	0 i	1 i	0 i
Furman U.	357	8	0	8	0	0	0	0	0	0	0	0
Oregon Institute of Technology	357	8 i	0 i	0 i	8 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Fort Hays State U.	359	7	0	0	7	0	0	0	0	0	0	0
SUNY, C. Brockport	359	7	0	0	7	0	0	0	0	0	0	0
U. Louisville	359	7	0	0	7	0	0	0	0	0	0	0
U. West Florida	359	7	0	0	7	0	0	0	0	0	0	0
Central Washington U.	363	6	0	0	6	0	0	0	0	0	0	0
CUNY, Advanced Science Research Center	363	6	0	0	6	0	0	0	0	0	0	0
CUNY, Queens C.	363	6	0	0	6	0	0	0	0	0	0	0
Eastern Kentucky U.	363	6	0	0	6	0	0	0	0	0	0	0
U. Virginia's C. Wise	363	6	0	0	6	0	0	0	0	0	0	0
C. Wooster	368	5 i	0 i	0 i	5 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Drake U.	368	5	0	0	0	0	0	0	0	0	0	5
Northland C.	368	5 i	0 i	0 i	5 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Bucknell U.	371	4	0	0	0	0	0	0	0	4	0	0
Rhode Island School of Design	371	4 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	4 i
Biola U.	373	3 i	0 i	0 i	2 i	0 i	0 i	0 i	0 i	0 i	0 i	1 i

TABLE 65

**Federally financed higher education R&D expenditures, financed by the Department of Agriculture, ranked by USDA R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	USDA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Keck Graduate Institute	373	3 i	0 i	0 i	3 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Swarthmore C.	373	3	0	0	0	3	0	0	0	0	0	0
Kent State U.	376	2	0	0	0	0	0	0	0	0	0	2
Lafayette C.	376	2	0	0	2	0	0	0	0	0	0	0
Mercyhurst U.	376	2 i	0 i	0 i	2 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Northern Kentucky U.	376	2	0	0	2	0	0	0	0	0	0	0
U. Dayton	376	2	0	0	0	0	0	0	0	0	2	0
Marshall B. Ketchum U.	381	1 i	0 i	0 i	1 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Salisbury U.	381	1	1	0	0	0	0	0	0	0	0	0
U. Illinois, Springfield	381	1	0	0	1	0	0	0	0	0	0	0

i = imputed.

USDA = Department of Agriculture; nec = not elsewhere classified; S&amp;E = science and engineering.

<sup>a</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

<sup>b</sup> Johns Hopkins University includes the Applied Physics Laboratory, with \$2 thousand in R&D expenditures financed by USDA in FY 2021.

<sup>c</sup> The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

<sup>d</sup> The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

**Note(s):**

Institutions reporting zero expenditures in ranked total for FY 2021 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2021.

TABLE 66

**Federally financed higher education R&D expenditures, financed by all other federal agencies, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	Other agency R&D expenditures <sup>a</sup>	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
All institutions	-	3,547,676	130,541	603,772	717,307	32,430	96,377	69,709	238,947	51,312	996,134	611,147
Johns Hopkins U. <sup>b</sup>	1	174,963	33,479	1,472	13,824	13,463	3,907	0	758	7,300	99,429	1,331
U. California, San Diego	2	148,689	2,442	36,122	58,731	418	6,494	1,718	831	131	15,158	26,644
U. Colorado Boulder	3	92,824	788	57,175	366	198	21,573	5	1,258	142	7,569	3,750
Georgia Institute of Technology	4	81,278	7,751	1,413	1,660	12	3,730	386	865	0	61,860	3,601
U. Maryland <sup>c</sup>	5	79,983	8,856	28,386	4,004	52	2,159	498	3,828	249	23,051	8,900
U. Dayton	6	71,400	491	311	0	0	20	0	0	0	70,153	425
U. Washington, Seattle	7	70,480	967	36,024	16,731	276	78	604	1,558	0	8,356	5,886
U. North Carolina, Chapel Hill	8	67,336	2,450	5,799	8,839	0	17	11,901	27,329	0	5,740	5,261
Texas A&M U., College Station and Health Science Center	9	65,118	1,286	8,508	16,576	0	329	295	1,670	1,645	21,637	13,172
Ohio State U.	10	65,018	91	409	13,351	6	80	342	2,767	14,604	23,449	9,919
Utah State U.	11	61,159	47	26	5,469	0	6	223	166	0	55,085	137
Pennsylvania State U., University Park and Hershey Medical Center	12	56,130	5,535	2,307	2,247	405	234	945	649	0	42,080	1,728
Colorado State U., Fort Collins	13	50,647	392	23,597	13,310	50	940	18	461	131	6,012	5,736
U. South Florida <sup>d</sup>	14	50,442	145	5,002	5,741	150	36	452	5,803	0	10,542	22,571
U. Oklahoma, Norman and Health Science Center	15	45,652	274	28,608	723	0	0	597	1,742	0	2,005	11,703
Tufts U.	16	41,025	95	34	29,905	852	180	3,979	1,637	1,630	2,327	386
U. Florida	17	36,801	755	569	12,511	0	0	42	1,227	0	9,890	11,807
U. Delaware	18	35,320	28	3,921	1,119	0	365	17	2,500	0	24,941	2,429
U. Wisconsin-Madison	19	35,132	47	15,326	4,410	182	198	402	3,414	66	3,636	7,451
U. Michigan, Ann Arbor	20	35,129	337	4,890	6,310	81	0	298	7,314	1,450	12,881	1,568
New Jersey Institute of Technology	21	35,098	102	0	0	0	126	0	76	0	31,734	3,060
Michigan State U.	22	34,184	480	385	10,164	0	187	912	14,362	20	4,372	3,302
Clemson U.	23	33,462	482	0	6,753	122	1,655	345	3,469	0	17,757	2,879
U. Louisiana, Lafayette	24	33,039	1,136	3,015	4,602	72	3,141	0	1,724	0	3,748	15,601
Purdue U., West Lafayette	25	32,917	1,148	231	6,757	0	409	0	844	0	15,818	7,710
Virginia Polytechnic Institute and State U.	26	30,102	18	262	7,769	548	137	1,306	358	0	18,529	1,175
Iowa State U.	27	29,860	17	303	2,117	4,271	192	520	2,675	0	16,769	2,996
U. Miami	28	29,467	14	22,933	2,552	0	2,496	962	0	0	148	362

TABLE 66

**Federally financed higher education R&D expenditures, financed by all other federal agencies, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	Other agency R&D expenditures <sup>a</sup>	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Mississippi State U.	29	28,531	6	11,110	6,269	49	0	0	5,420	0	4,037	1,640
Arizona State U.	30	28,380	529	313	1,444	0	0	1,482	5,322	4,855	3,446	10,989
U. Illinois, Urbana-Champaign	31	28,339	893	776	11,788	0	7	484	444	363	12,282	1,302
Duke U.	32	28,157	0	772	21,629	0	136	0	1,911	0	3,444	265
Wichita State U.	33	27,030	0	0	3,925	0	0	207	9	0	21,616	1,273
North Carolina State U.	34	26,077	410	7,633	1,940	1,791	37	199	778	204	12,050	1,035
Oregon State U.	35	26,072	2	7,593	11,056	20	496	175	1,230	163	4,110	1,227
U. Rhode Island	36	24,909	0	19,354	990	0	737	0	93	675	1,449	1,611
U. Hawaii, Manoa	37	24,630	27	16,018	5,050	0	1	2	388	966	2,123	55
U. Texas, Austin	38	24,614	829	3,565	618	783	684	276	939	0	6,577	10,343
U. Missouri, Columbia	39	24,420	86	0	7,358	280	41	0	174	0	2,376	14,105
Woods Hole Oceanographic Institution	40	24,160	0	20,649	0	0	0	0	0	0	3,511	0
U. Kansas	41	23,999	46	696	692	0	0	949	29	0	1,682	19,905
Florida State U.	42	23,856	361	1,462	1,636	2	133	215	730	0	2,023	17,294
U. California, Berkeley	43	23,495	0	283	6,582	0	6,016	239	1,449	839	4,607	3,480
Rutgers, State U. New Jersey, New Brunswick	44	22,581	0	6,458	5,534	181	20	4	948	0	6,751	2,685
U. California, Davis	45	22,423	110	2,265	8,692	0	972	0	2,668	0	5,047	2,669
U. New Hampshire	46	22,010	0	12,690	3,549	0	43	222	1,260	0	2,137	2,109
Florida International U.	47	21,489	561	5,732	817	0	2,759	2,195	1,534	85	3,018	4,788
U. Alaska, Fairbanks	48	21,397	846	13,325	4,560	0	0	0	164	641	1,728	133
U. Connecticut	49	20,682	307	4,013	3,398	0	0	3,688	279	0	8,670	327
Washington State U.	50	20,347	24	1,006	2,922	19	416	210	979	64	3,144	11,563
U. Southern California	51	17,912	866	2,997	868	0	0	739	6,593	0	2,068	3,781
U. Virginia, Charlottesville	52	17,700	2,682	553	2,454	136	123	53	547	0	1,306	9,846
U. Southern Mississippi	53	17,523	0	14,693	1,465	0	315	0	443	0	583	24
William & Mary	54	17,463	91	9,106	225	0	0	13	4,306	0	0	3,722
U. Arizona	55	15,927	402	5,155	4,245	33	2,166	0	1,388	301	1,451	786
U. California, Los Angeles	56	15,761	0	1,352	4,173	0	0	214	1,322	3,514	766	4,420
George Mason U.	57	15,671	3,257	2,523	779	113	31	368	2,672	0	4,292	1,636
Auburn U., Auburn	58	15,649	483	313	3,546	0	2	0	8	408	10,733	156
Florida A&M U.	59	15,572	2	3,631	5,350	0	14	0	0	0	1,674	4,901



TABLE 66

**Federally financed higher education R&D expenditures, financed by all other federal agencies, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	Other agency R&D expenditures <sup>a</sup>	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Harvard U.	60	15,342	245	2,313	1,737	946	1,295	102	3,310	41	1,862	3,491
Massachusetts Institute of Technology	61	15,179	543	3,253	322	0	1,420	0	2,682	73	5,537	1,349
Virginia Commonwealth U.	62	15,063	0	21	4,908	48	63	521	11	0	593	8,898
U. Iowa	63	15,046	12	10	5,564	0	118	313	1,066	0	6,861	1,102
Vanderbilt U. and Vanderbilt U. Medical Center	64	14,980	299	0	977	0	568	37	2,687	0	1,900	8,512
U. Nevada, Reno	65	14,977	176	2,936	7,210	0	85	0	686	0	3,448	436
Cornell U.	66	14,436	56	1,017	10,091	0	14	426	371	0	1,587	874
Texas State U.	67	14,195	4	881	634	0	0	0	1,169	0	483	11,024
U. Texas, Arlington	68	14,027	229	0	62	0	0	0	0	0	11,675	2,061
U. Pittsburgh, Pittsburgh	69	13,915	196	48	11,376	10	0	0	92	267	1,301	625
U. Nebraska, Lincoln	70	13,906	0	178	2,945	53	0	2,457	132	0	7,153	988
Montana State U., Bozeman	71	13,829	59	308	1,847	72	11	0	755	100	8,203	2,474
U. Georgia	72	13,783	32	2,922	6,200	0	0	2,395	428	21	1,173	612
Georgia State U.	73	13,770	84	294	478	0	0	213	1,486	0	0	11,215
Princeton U.	74	13,732	0	9,440	2,073	0	0	0	1,711	0	102	406
U. Pennsylvania	75	13,641	57	0	6,064	0	31	436	2,335	0	625	4,093
Georgetown U.	76	13,435	521	0	4,894	0	5,687	0	1,846	0	0	487
U. Alabama, Tuscaloosa	77	13,250	3,031	188	101	0	0	45	559	0	7,184	2,142
Carnegie Mellon U.	78	13,238	5,065	0	0	228	362	509	0	0	7,074	0
U. Minnesota, Twin Cities	79	12,619	58	299	2,932	0	151	3,519	170	0	3,119	2,371
Northeastern U.	80	12,613	49	655	154	0	113	87	3,845	0	7,039	671
U. Oregon	81	12,557	80	1,935	240	0	27	1,743	279	0	0	8,253
U. California, Santa Cruz	82	11,628	1	5,114	6,040	0	39	0	78	0	283	73
Kansas State U.	83	11,583	118	150	4,912	12	10	30	426	1,228	4,345	352
Indiana U., Bloomington	84	11,355	3,745	614	797	0	268	240	4,801	0	20	870
U. Baltimore	85	11,222	14	0	0	0	45	0	481	0	0	10,682
Brandeis U.	86	11,165	111	0	627	4	0	0	1,827	0	0	8,596
George Washington U.	87	11,142	285	0	3,199	0	67	0	4,958	608	201	1,824
U. Central Florida	88	11,047	2,442	0	1,111	0	778	1,181	117	0	1,791	3,627
Medical U. South Carolina	89	10,928	0	0	10,928	0	0	0	0	0	0	0
Louisiana State U., Baton Rouge	90	10,926	135	4,349	1,492	182	275	101	358	0	3,336	698

TABLE 66

**Federally financed higher education R&D expenditures, financed by all other federal agencies, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	Other agency R&D expenditures <sup>a</sup>	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Yale U.	91	10,703	135	76	4,535	0	0	228	54	0	160	5,515
U. Illinois, Chicago	92	10,663	44	29	5,089	0	0	530	1,202	0	476	3,293
New York U.	93	10,466	145	0	1,106	561	0	312	2,201	0	2,831	3,310
U. Maine	94	10,425	41	5,211	1,079	0	16	0	137	0	3,388	553
U. North Carolina, Greensboro	95	10,304	395	0	194	31	0	413	28	0	0	9,243
U. Notre Dame	96	10,264	2,644	0	404	0	168	438	1,050	131	1,103	4,326
U. Colorado Anschutz Medical Campus <sup>e</sup>	97	10,084	0	0	10,001	0	0	0	0	0	83	0
U. Massachusetts, Amherst	98	10,014	1,367	465	1,545	0	12	0	77	0	5,602	946
SUNY, U. Buffalo	99	10,000	129	186	5,686	0	481	507	125	0	954	1,932
U. Montana, Missoula	100	9,946	0	316	7,572	0	443	0	1,451	0	0	164
U. Kentucky	101	9,817	177	885	839	0	0	466	73	1,206	5,736	435
Northwestern U.	102	9,435	0	78	1,827	0	4,479	0	901	161	1,234	755
U. Cincinnati	103	9,236	17	31	3,745	0	0	91	1,650	0	2,562	1,140
Embry-Riddle Aeronautical U.	104	9,172	1,046	201	0	0	0	0	79	0	7,784	62
U. California, Irvine	105	8,954	280	5	706	3	115	380	291	0	756	6,418
U. West Florida	106	8,936	0	0	156	0	622	0	4	0	0	8,154
U. Maryland Center for Environmental Science	107	8,806	0	5,259	3,191	0	195	0	0	0	0	161
Boston U.	108	8,774	499	864	5,736	0	118	225	117	1	494	720
U. Tennessee, Knoxville	109	8,737	53	355	3,234	0	216	0	821	371	3,378	309
Stanford U.	110	8,564	114	338	1,025	0	51	109	1,500	0	3,316	2,111
North Dakota State U.	111	8,284	0	55	2,649	0	65	41	75	48	673	4,678
U. Houston	112	7,637	384	764	78	431	0	4,134	196	0	215	1,435
Columbia U. in the City of New York	113	7,578	448	3,042	1,993	0	0	0	754	0	431	910
Texas A&M U.-Corpus Christi	114	7,474	0	1,911	2,090	0	757	0	177	137	2,089	313
U. Massachusetts, Boston	115	7,408	0	363	185	0	1	732	818	0	52	5,257
U. South Carolina, Columbia	116	7,361	117	1,507	1,000	0	0	278	786	0	1,691	1,982
CUNY, City C.	117	7,359	79	58	7	0	0	0	0	0	7,215	0
Tulane U.	118	7,313	0	617	4,167	0	174	119	2,037	0	0	199
West Virginia U.	119	7,283	0	224	1,089	0	988	0	412	12	1,639	2,919
Drexel U.	120	7,217	459	0	3,549	0	0	662	25	0	1,924	598
Wake Forest U.	121	6,961	0	0	6,961	0	0	0	0	0	0	0

TABLE 66

**Federally financed higher education R&D expenditures, financed by all other federal agencies, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	Other agency R&D expenditures <sup>a</sup>	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Alaska, Anchorage	122	6,857	7	4,057	1,980	0	45	0	298	0	401	69
SUNY, Stony Brook U.	123	6,824	114	4,517	1,095	100	23	0	3	0	675	297
U. Texas, San Antonio	124	6,789	3,671	151	182	0	99	8	592	341	569	1,176
Eastern Virginia Medical School	125	6,693	0	0	6,693	0	0	0	0	0	0	0
U. California, Santa Barbara	126	6,629	245	3,700	143	4	18	207	580	0	19	1,713
Rice U.	127	6,422	0	49	93	508	0	80	1,598	25	4,068	1
U. Alabama, Huntsville	128	6,328	186	1,421	10	0	0	0	0	0	4,229	482
Portland State U.	129	6,303	54	708	1,074	0	0	318	776	0	300	3,073
Temple U.	130	6,193	108	39	1,927	0	0	40	339	6	557	3,177
U. California, Riverside	131	6,149	581	238	921	1	14	0	105	648	2,690	951
U. Texas, El Paso	132	6,087	135	10	1,125	13	148	182	236	0	3,692	546
U. Utah	133	6,025	234	807	1,195	0	0	74	271	0	1,928	1,516
Florida Atlantic U.	134	5,975	0	259	1,706	138	5	0	68	0	3,181	618
U. Arkansas, Fayetteville	135	5,969	248	708	882	0	0	44	662	0	2,025	1,400
U. New Mexico	136	5,846	0	713	2,127	0	0	0	1,345	0	1,259	402
U. Wyoming	137	5,834	0	633	3,714	13	0	0	193	1	1,115	165
Brown U.	138	5,762	1,340	157	422	0	356	94	576	0	481	2,336
U. Memphis	139	5,695	347	1,494	0	0	56	346	1,135	0	785	1,532
Oklahoma State U., Stillwater	140	5,672	0	19	1,900	0	173	0	145	0	3,130	305
U. Nevada, Las Vegas	141	5,609	0	0	3,612	0	0	0	104	0	1,127	766
San Jose State U.	142	5,475	0	3,754	0	24	0	0	771	0	0	926
California Institute of Technology	143	5,421	0	4,982	0	0	246	0	0	0	193	0
Missouri U. of Science and Technology	144	5,419	202	0	8	0	422	0	5	0	4,782	0
California State U., East Bay	145	4,990	0	122	591	135	351	0	1,414	0	0	2,377
U. Louisville	146	4,898	0	8	2,355	0	0	0	303	0	426	1,806
U. California, San Francisco	147	4,891	0	0	4,627	0	264	0	0	0	0	0
U. Alabama, Birmingham	148	4,854	0	0	3,576	0	317	159	147	0	511	144
Wayne State U.	149	4,788	0	0	3,101	0	0	0	342	0	677	668
American U.	150	4,564	0	36	13	0	73	10	2,264	51	0	2,117
Teachers C., Columbia U.	151	4,501	145	0	1,279	0	0	271	2,806	0	0	0
SUNY, U. Albany	152	4,462	349	2,083	258	0	621	0	1,085	0	0	66
U. Idaho	153	4,454	64	686	2,573	0	0	50	110	0	876	95

TABLE 66

**Federally financed higher education R&D expenditures, financed by all other federal agencies, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	Other agency R&D expenditures <sup>a</sup>	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
East Carolina U.	154	4,293	0	370	430	0	0	453	415	0	137	2,488
Colorado School of Mines	155	4,269	145	885	632	0	0	0	256	0	2,319	32
Delaware State U.	156	4,267	0	79	164	0	0	0	25	0	0	3,999
Ohio U.	157	4,210	41	50	318	0	42	788	64	0	2,826	81
Boston C.	158	4,204	0	267	0	0	0	0	3,053	0	0	884
U. Nebraska, Omaha	159	4,140	126	0	294	0	0	0	608	2,783	274	55
SUNY, C. of Environmental Science and Forestry	160	4,042	22	22	3,584	0	230	0	0	68	0	116
Illinois State U.	161	4,009	0	34	1	0	0	0	10	0	0	3,964
U. Chicago	162	3,990	326	0	328	0	0	781	1,332	0	907	316
U. South Alabama	163	3,978	2,430	794	14	0	23	29	0	0	530	158
Emory U.	164	3,959	0	105	3,779	0	0	0	0	0	0	75
Florida Institute of Technology	165	3,941	2,317	78	180	0	336	0	0	0	392	638
Baylor C. of Medicine	166	3,939	0	0	3,939	0	0	0	0	0	0	0
California State U., Sacramento	167	3,915	11	676	254	0	0	0	5	0	2,540	429
Michigan Technological U.	168	3,825	19	1,732	105	0	0	3	57	0	1,909	0
U. Denver	169	3,803	0	1	0	0	0	58	1,180	0	0	2,564
U. Texas Health Science Center, San Antonio	170	3,788	0	0	3,788	0	0	0	0	0	0	0
Texas Tech U.	171	3,782	0	923	1,037	0	0	110	17	0	1,093	602
Western Michigan U. and Homer Stryker M.D. School of Medicine	172	3,781	0	235	27	0	51	0	23	0	377	3,068
U. Texas M. D. Anderson Cancer Center	173	3,755	0	0	3,752	0	3	0	0	0	0	0
Old Dominion U.	174	3,740	38	675	56	153	72	32	266	0	1,390	1,058
U. Vermont	175	3,686	99	1,407	686	93	0	0	164	0	996	241
U. Mississippi	176	3,638	0	935	224	0	231	0	95	0	645	1,508
Sam Houston State U.	177	3,632	0	0	138	0	0	94	243	0	0	3,157
U. North Florida	178	3,611	113	11	525	0	7	0	0	0	73	2,882
New Mexico State U.	179	3,565	88	522	1,142	0	3	0	263	190	1,347	10
U. Massachusetts, Lowell	180	3,428	193	220	105	0	82	0	1,578	0	458	792
Syracuse U.	181	3,423	178	0	353	0	136	0	769	0	170	1,817
Colorado C.	182	3,360	0	0	0	0	0	0	0	0	0	3,360
U. North Carolina, Charlotte	183	3,348	54	234	7	0	42	0	167	0	2,100	744



TABLE 66

**Federally financed higher education R&D expenditures, financed by all other federal agencies, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	Other agency R&D expenditures <sup>a</sup>	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Nebraska, central administration	215	2,191	0	0	0	0	0	0	0	0	2,191	0
California State U., San Bernardino	216	2,177	13	0	0	82	0	0	18	0	0	2,064
Rensselaer Polytechnic Institute	217	2,148	97	0	134	94	0	0	0	0	980	843
Clarkson U.	218	2,144	0	30	6	59	85	7	0	0	1,702	255
Rochester Institute of Technology	218	2,144	363	0	53	0	631	0	330	0	269	498
U. Washington, Tacoma	220	2,129	0	2,102	0	0	0	0	0	0	0	27
U. Hawaii, Hilo	221	2,111	0	1,026	877	0	0	0	26	182	0	0
Stevens Institute of Technology	222	2,073	0	0	0	0	0	0	0	0	1,947	126
Texas A&M U.-Kingsville	223	2,067	0	0	157	0	0	0	0	0	467	1,443
Florida Gulf Coast U.	224	2,054	0	0	0	0	0	0	0	0	0	2,054
U. Guam	225	2,035	0	1,364	667	0	0	0	0	4	0	0
Brigham Young U., Provo	226	2,021	0	0	547	0	0	0	598	0	206	670
U. Colorado Denver <sup>e</sup>	227	2,020	89	66	102	169	0	0	62	0	108	1,424
St. Edward's U.	228	1,970	0	0	0	0	0	0	0	0	0	1,970
CUNY, John Jay C. of Criminal Justice	229	1,954	0	0	0	0	8	4	259	0	0	1,683
Bowling Green State U.	230	1,944	0	279	225	0	8	6	448	0	0	978
Salisbury U.	231	1,903	0	20	0	0	0	0	22	0	0	1,861
U. California, Merced	232	1,899	0	263	33	384	206	4	9	153	172	675
Winston-Salem State U.	233	1,897	0	0	1,246	0	0	0	0	0	0	651
U. Minnesota, Duluth	234	1,881	0	0	1,766	0	0	0	0	0	115	0
Northern Illinois U.	235	1,847	0	3	50	0	158	155	15	0	1,444	22
New Mexico Institute of Mining and Technology	236	1,841	0	961	14	0	0	0	0	0	866	0
U. Wisconsin-Superior	237	1,825	0	0	1,800	0	0	0	0	0	25	0
U. North Texas, Health Science Center	238	1,740	0	0	1,740	0	0	0	0	0	0	0
Southern Methodist U.	239	1,731	0	166	0	0	0	0	0	0	246	1,319
U. North Texas, Denton	240	1,641	43	71	166	0	20	0	0	0	177	1,164
U. Toledo	241	1,639	0	1,379	130	0	0	0	17	0	58	55
Tennessee Technological U.	242	1,637	0	0	1,025	0	0	0	0	0	444	168
Texas Southern U.	243	1,635	0	0	1,099	0	0	0	0	0	0	536
Miami U.	244	1,594	0	9	713	46	4	36	301	0	89	396
Marshall U.	245	1,502	0	122	649	0	0	0	0	0	663	68

TABLE 66

## Federally financed higher education R&amp;D expenditures, financed by all other federal agencies, ranked by all R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	Other agency R&D expenditures <sup>a</sup>	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Massachusetts, Medical School	246	1,493	0	0	1,493	0	0	0	0	0	0	0
U.S. Army War C.	247	1,454	i 0 i	0 i	0 i	0 i	0 i	0 i	1,454 i	0 i	0 i	0 i
U. New Orleans	248	1,438	30	671	30	0	61	0	425	184	2	35
SUNY, Binghamton U.	249	1,367	2	20	0	0	0	0	601	0	0	744
U. Hawaii, system office	250	1,328	1,313	15	0	0	0	0	0	0	0	0
Case Western Reserve U.	251	1,321	303	0	3	0	0	22	855	0	138	0
Kent State U.	252	1,320	0	76	392	0	0	247	15	350	0	240
Troy U.	253	1,312	0	31	40	0	1,094	0	0	0	0	147
Icahn School of Medicine at Mount Sinai	254	1,299	0	0	1,299	0	0	0	0	0	0	0
Johnson C. Smith U.	255	1,255	i 0 i	0 i	176 i	0 i	0 i	0 i	0 i	0 i	0 i	1,079 i
Howard U.	256	1,243	0	289	350	0	160	328	0	0	116	0
Colorado State U., Pueblo	257	1,230	0	0	1,230	0	0	0	0	0	0	0
William Paterson U.	258	1,199	0	0	7	0	0	93	446	0	0	653
U. of the Virgin Islands	259	1,198	0	1,045	97	0	0	0	56	0	0	0
Murray State U.	260	1,161	0	20	1,108	0	33	0	0	0	0	0
Augusta U.	261	1,140	0	0	1,140	0	0	0	0	0	0	0
Seton Hall U.	262	1,134	0	0	0	0	0	0	0	0	0	1,134
Loyola U., Chicago	263	1,097	0	0	745	0	0	0	272	0	0	80
Duquesne U.	264	1,095	0	241	310	0	0	0	10	0	0	534
Loyola Marymount U.	264	1,095	0	0	0	0	0	0	273	0	0	822
Georgia Southern U.	266	1,081	61	68	304	0	0	0	73	0	575	0
San Francisco State U.	267	1,079	0	932	118	0	0	0	11	3	0	15
Washington U., Saint Louis	268	1,078	0	0	671	0	34	4	17	0	247	105
Arkansas State U., Jonesboro	269	1,074	0	0	895	0	6	0	0	0	173	0
U. Texas Southwestern Medical Center	270	1,070	0	0	1,070	0	0	0	0	0	0	0
U. Wisconsin-Stevens Point	271	1,068	0	11	1,057	0	0	0	0	0	0	0
CUNY, Graduate School of Public Health and Health Policy	272	1,029	0	0	1,029	0	0	0	0	0	0	0
Uniformed Services U. of the Health Sciences	273	1,010	0	0	1,010	0	0	0	0	0	0	0
Pennsylvania State U., Behrend	274	1,004	0	664	159	0	0	40	0	0	120	21
U.S. Military Academy	275	997	0	0	847	0	0	0	150	0	0	0
Middle Tennessee State U.	276	995	0	0	185	0	601	0	96	0	100	13

TABLE 66

**Federally financed higher education R&D expenditures, financed by all other federal agencies, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	Other agency R&D expenditures <sup>a</sup>	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Dartmouth C. and Dartmouth Hitchcock Medical Center	277	994	0	8	441	0	0	5	333	0	61	146
U. Puerto Rico, Medical Sciences Campus	278	966	0	0	966	0	0	0	0	0	0	0
Texas A&M International U.	279	965	0	0	65	64	64	0	632	70	65	5
Lamar U.	280	937	0	0	215	0	0	0	0	0	438	284
U. Akron	281	919	0	78	110	0	0	0	0	0	711	20
U. Tulsa	281	919	336	25	70	0	0	72	15	0	60	341
California State U., Long Beach	283	916	0	0	86	169	0	25	220	0	416	0
Humboldt State U.	284	913	0	62	643	0	0	0	0	0	208	0
California State Polytechnic U., Pomona	285	900	0	118	48	0	0	0	0	0	734	0
U. Illinois, Springfield	286	893	0	0	0	0	0	0	893	0	0	0
U. Missouri, Kansas City	287	888	0	3	178	0	0	15	9	0	291	392
U. Northern Colorado	288	884	0	0	246	0	0	0	58	0	0	580
Rutgers, State U. New Jersey, Camden	289	874	263	0	0	0	0	0	611	0	0	0
Southern Illinois U., Edwardsville	290	871	0	402	95	0	0	0	0	0	122	252
Montana Technological U.	291	869	0	858	0	0	0	0	0	0	11	0
Illinois Institute of Technology	292	852	0	35	0	0	251	0	0	0	453	113
Rowan U.	293	840	150	9	22	15	0	78	0	0	426	140
U. Houston-Downtown	294	829	42	0	0	0	0	0	0	0	189	598
California State U., Los Angeles	295	828	0	0	8	0	0	0	326	0	265	229
U. Texas Rio Grande Valley	296	824	0	491	109	0	0	0	0	0	119	105
La Sierra U.	297	812	0	0	0	0	0	0	0	0	0	812
Wright State U.	298	798	141	44	515	38	2	5	0	0	12	41
U. Tennessee, Health Science Center	299	796	0	0	796	0	0	0	0	0	0	0
Northern Kentucky U.	300	783	0	0	782	0	0	0	0	0	0	1
U. Missouri, Saint Louis	301	757	0	0	327	0	0	0	139	0	0	291
Claremont Graduate U.	302	755	0	0	0	0	0	0	273	0	0	482
Winthrop U.	303	739	0	0	0	0	0	43	0	16	0	680
Northwestern State U. Louisiana	304	738	0	0	0	0	0	0	738	0	0	0
North Carolina Central U.	305	672	0	0	0	0	367	0	12	0	0	293
Catholic U. of America	306	660	0	0	287	0	5	0	5	0	191	172
SUNY, Buffalo State	307	655	0	626	29	0	0	0	0	0	0	0



TABLE 66

**Federally financed higher education R&D expenditures, financed by all other federal agencies, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	Other agency R&D expenditures <sup>a</sup>	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Saginaw Valley State U.	308	651	0	0	0	616	22	0	13	0	0	0
Ball State U.	309	647	0	0	287	0	0	0	146	0	0	214
Oregon Health and Science U.	309	647	0	0	647	0	0	0	0	0	0	0
C. Charleston	311	616	0	198	129	0	0	0	4	0	0	285
Louisiana State U., Health Sciences Center, New Orleans	312	605	0	0	605	0	0	0	0	0	0	0
California State U., Monterey Bay	313	602	0	481	121	0	0	0	0	0	0	0
South Dakota School of Mines and Technology	314	599	0	0	0	0	73	0	0	0	526	0
Naval Postgraduate School	315	557	0	37	0	45	0	0	323	152	0	0
Youngstown State U.	316	548	0	0	0	0	0	54	0	0	13	481
Western Washington U.	317	547	0	61	20	0	151	0	136	93	0	86
U. New Haven	318	546	0	7	0	0	216	86	237	0	0	0
Erikson Institute	319	540	0	0	0	0	0	0	0	0	0	540
U. North Carolina, Asheville	320	534	0	23	14	0	254	0	0	0	0	243
West Virginia State U.	321	533	0	0	533	0	0	0	0	0	0	0
Wesleyan U.	322	530	0	14	0	0	211	0	0	0	0	305
Appalachian State U.	323	529	0	0	99	0	0	49	0	0	0	381
U. Puerto Rico, Rio Piedras	324	515	0	497	0	0	0	0	16	2	0	0
California State U., Northridge	325	514	0	82	0	0	0	0	13	62	0	357
U. Texas of the Permian Basin	326	512	0	0	0	0	0	0	360	0	0	152
Hobart and William Smith Colleges	327	506	0	0	506	0	0	0	0	0	0	0
Texas Woman's U.	327	506	0	0	0	0	1	0	0	0	0	505
U. California, Office of the President	329	498	0	0	191	0	0	0	0	33	0	274
U. Arkansas, Little Rock	330	489	0	0	2	0	0	0	0	0	0	487
Alabama A&M U.	331	486	16	0	118	3	16	12	38	0	174	109
Dillard U.	331	486	0	0	70	0	0	0	0	0	0	416
U. Houston-Clear Lake	333	485	0	0	440	0	0	0	45	0	0	0
Morehouse C.	334	482	51	0	0	0	0	0	0	0	0	431
Fordham U.	335	475	0	0	4	0	0	0	0	0	0	471
U. Tennessee, Chattanooga	335	475	69	0	45	0	0	0	0	36	325	0
Sacred Heart U.	337	474	0	8	0	0	0	0	0	0	0	466
Pittsburg State U.	338	467	0	0	129	0	0	0	163	0	175	0

TABLE 66

**Federally financed higher education R&D expenditures, financed by all other federal agencies, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	Other agency R&D expenditures <sup>a</sup>	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Clark U.	339	463	0	0	0	0	0	50	413	0	0	0
Western Carolina U.	340	457	0	186	106	0	0	0	0	0	165	0
Bowie State U.	341	446	55	0	0	0	0	0	0	0	0	391
Skidmore C.	341	446	0	0	446	0	0	0	0	0	0	0
Louisiana Tech U.	343	441	16	0	12	39	8	0	169	0	83	114
California State U., Chico	344	435	0	0	0	0	4	0	46	0	0	385
SUNY, C. Plattsburgh	345	431	0	393	0	0	0	0	0	0	0	38
Baylor U.	346	426	0	1	56	0	0	51	0	0	204	114
Missouri State U.	346	426	0	22	363	0	0	0	0	0	38	3
Kennesaw State U.	348	424	0	0	13	0	0	0	14	7	81	309
Coastal Carolina U.	349	422	0	281	141	0	0	0	0	0	0	0
East Tennessee State U.	350	420	0	0	261	0	29	0	0	0	101	29
California State U., Fresno	351	413	0	1	0	0	157	0	157	0	0	98
Sul Ross State U.	352	411	0	0	392	0	0	0	19	0	0	0
Mills C.	353	408	0	0	0	0	0	0	0	0	0	408
CUNY, Hunter C.	354	405	0	63	0	0	0	38	119	0	0	185
Saint Joseph's U.	355	403	155	0	0	0	0	0	95	0	0	153
New School	356	393	0	0	0	0	0	29	0	0	0	364
U. Texas, Dallas	357	388	55	0	0	0	7	0	18	137	171	0
SUNY, Polytechnic Institute	358	387	0	0	0	0	0	0	0	0	387	0
Occidental C.	359	380	0	362	0	0	0	0	18	0	0	0
Southeastern Louisiana U.	359	380	0	0	167	0	0	0	0	0	0	213
U. Wisconsin-La Crosse	361	378	0	0	331	0	0	0	47	0	0	0
Central Connecticut State U.	362	377	0	0	0	0	0	0	207	0	70	100
SUNY, C. Brockport	363	376	0	231	145	0	0	0	0	0	0	0
Indiana State U.	364	375	0	7	78	0	0	0	0	0	0	290
U. Rochester	364	375	12	0	282	0	0	22	59	0	0	0
Fayetteville State U.	366	373	0	0	0	0	0	0	180	0	0	193
Central Washington U.	367	365	0	359	0	0	6	0	0	0	0	0
Savannah State U.	368	361	0	361	0	0	0	0	0	0	0	0
Idaho State U.	369	347	28	61	157	0	0	0	25	0	0	76
Chapman U.	370	346	0	0	136	0	0	0	87	0	0	123

TABLE 66

## Federally financed higher education R&amp;D expenditures, financed by all other federal agencies, ranked by all R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	Other agency R&D expenditures <sup>a</sup>	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Grand Valley State U.	371	342	0	261	29	0	0	0	52	0	0	0
Roger Williams U.	372	340	0	172	4	0	0	111	0	0	0	53
Kettering U.	373	336	0	0	0	0	0	0	0	0	0	336
U. Washington, Bothell	374	333	0	149	0	0	0	0	0	0	33	151
U. Alaska, Southeast	375	330	0	149	181	0	0	0	0	0	0	0
U. Central Oklahoma	375	330	i	0	54	0	89	0	0	0	0	187
Tarleton State U.	377	321	0	17	98	0	0	0	0	206	0	0
U. South Carolina, Aiken	378	320	0	0	254	0	0	0	0	0	62	4
Villanova U.	379	313	0	23	49	0	0	0	0	0	140	101
Marquette U.	380	311	56	0	0	0	0	17	0	0	238	0
Stockton U.	381	308	0	238	70	0	0	0	0	0	0	0
California State U., Dominguez Hills	382	306	51	0	0	0	0	0	0	0	0	255
Eastern Washington U.	383	302	0	46	3	0	0	0	250	0	0	3
U. Ana G. Mendez, Gurabo	383	302	0	0	0	0	0	0	0	0	302	0
Western Illinois U.	383	302	0	0	255	0	47	0	0	0	0	0
Oklahoma State U., Center for Health Sciences	386	298	0	0	112	0	0	186	0	0	0	0
Grambling State U.	387	295	0	0	0	0	0	0	0	0	0	295
Elizabeth City State U.	388	288	0	0	0	0	0	0	0	0	0	288
California State U., Stanislaus	389	285	0	0	285	0	0	0	0	0	0	0
West Texas A&M U.	390	280	0	0	0	0	0	0	0	0	0	280
Cleveland State U.	391	275	0	0	0	0	0	0	65	0	68	142
Mount Holyoke C.	392	261	0	0	58	0	0	143	60	0	0	0
Smith C.	392	261	0	0	31	0	0	2	0	0	44	184
Calvin U.	394	257	i	0	232	0	0	0	0	0	0	25
Fisk U.	395	253	0	0	0	0	253	0	0	0	0	0
Canisius C.	396	251	0	0	0	0	0	0	0	251	0	0
Meharry Medical C.	397	248	0	0	248	0	0	0	0	0	0	0
U. San Diego	398	247	0	1	0	0	0	0	19	0	174	53
Reed C.	399	245	i	0	42	0	22	0	0	0	0	181
U. of Mary Washington	400	243	0	4	0	0	0	0	0	0	0	239
Montclair State U.	401	242	0	66	38	0	0	58	0	0	0	80

TABLE 66

## Federally financed higher education R&amp;D expenditures, financed by all other federal agencies, ranked by all R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	Other agency R&D expenditures <sup>a</sup>	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
SUNY, Oswego	402	241	0	33	1	0	207	0	0	0	0	0
U. Nebraska, Kearney	403	239	0	0	239	0	0	0	0	0	0	0
Towson U.	404	235	203	4	1	0	4	0	23	0	0	0
Texas A&M U.-Commerce	405	225	53	0	0	0	0	30	0	0	0	142
Franklin and Marshall C.	406	216	0	0	0	0	0	0	216	0	0	0
Hawaii Pacific U.	407	214	0	214	0	0	0	0	0	0	0	0
Scripps Research Institute	407	214	0	0	214	0	0	0	0	0	0	0
Creighton U.	409	213	i 31	i 0	i 74	i 9	i 12	i 6	i 37	i 0	i 0	i 44
Texas Tech U., Health Sciences Center, El Paso	409	213	0	0	0	0	0	0	0	0	0	213
U. Central Arkansas	409	213	0	0	140	0	15	0	0	0	0	58
U. South Dakota	412	211	0	0	102	0	74	0	0	0	0	35
Jacksonville State U.	413	208	0	0	0	0	0	0	0	0	0	208
Tuskegee U.	413	208	48	0	0	0	0	0	0	0	160	0
Texas Christian U.	415	204	0	0	0	0	0	0	0	0	0	204
Austin Peay State U.	416	198	0	0	198	0	0	0	0	0	0	0
U. Louisiana, Monroe	417	197	0	5	30	0	0	0	162	0	0	0
Rosalind Franklin U. of Medicine and Science	418	196	0	0	171	0	0	25	0	0	0	0
U. Michigan, Dearborn	418	196	0	0	0	0	0	0	0	89	107	0
Arcadia U.	420	191	0	0	0	0	0	0	0	0	0	191
California State U., Fullerton	421	185	49	46	53	0	0	0	30	0	0	7
Morehouse School of Medicine	421	185	0	0	185	0	0	0	0	0	0	0
Western Kentucky U.	423	179	0	165	3	0	3	0	0	0	8	0
U. Texas Medical Branch	424	178	0	0	178	0	0	0	0	0	0	0
Tennessee State U.	425	175	i 0	i 0	i 29	i 110	i 0	i 0	i 6	i 0	i 26	i 4
Des Moines U.	426	172	i 0	i 0	i 0	i 0	i 0	i 0	i 172	i 0	i 0	i 0
CUNY, Advanced Science Research Center	427	170	0	157	13	0	0	0	0	0	0	0
Rhode Island School of Design	428	163	i 0	i 0	i 0	i 0	i 0	i 0	i 20	i 0	i 0	i 143
Bryn Mawr C.	429	162	0	0	58	0	0	0	0	0	0	104
Fort Hays State U.	430	158	0	95	63	0	0	0	0	0	0	0
Middlebury C.	431	152	0	49	0	0	0	22	81	0	0	0

TABLE 66

**Federally financed higher education R&D expenditures, financed by all other federal agencies, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	Other agency R&D expenditures <sup>a</sup>	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Pacific U.	431	152	0	0	0	0	0	0	0	0	0	152
Fielding Graduate U.	433	151	0	0	0	0	0	0	151	0	0	0
Minnesota State U., Mankato	434	145	0	0	94	0	0	0	0	0	51	0
U. Massachusetts, central office	434	145	0	0	145	0	0	0	0	0	0	0
Stephen F. Austin State U.	436	143	0	0	105	0	0	0	33	0	0	5
Rutgers, State U. New Jersey, Newark	437	139	0	47	81	0	0	11	0	0	0	0
Long Island U.	438	137	0	0	0	0	0	0	0	0	0	137
U. Puerto Rico, Humacao	439	135	0	0	25	0	0	110	0	0	0	0
Heidelberg U.	440	133	0	133	0	0	0	0	0	0	0	0
New York Medical C.	440	133	0	0	133	0	0	0	0	0	0	0
Prairie View A&M U.	442	132	83	0	27	0	0	0	0	0	22	0
Cold Spring Harbor Laboratory	443	131	0	0	113	0	0	0	0	0	0	18
Monmouth U.	443	131	0	86	0	0	0	0	45	0	0	0
Pennsylvania State U., Harrisburg	443	131	0	22	21	0	0	0	16	0	53	19
U. of the Sciences Philadelphia	446	130	0	0	130	0	0	0	0	0	0	0
Southern Connecticut State U.	447	127	0	63	27	0	0	0	0	0	0	37
Lawrence Technological U.	448	125	0	0	0	0	0	0	0	0	105	20
Albany State U.	449	124	0	22	0	0	28	0	0	0	0	74
CUNY, Graduate Center	450	122	0	0	0	0	0	0	0	0	0	122
U. of the District of Columbia	450	122	0	82	0	0	0	0	0	0	0	40
Virginia State U.	450	122	0	0	122	0	0	0	0	0	0	0
Kean U.	453	120	0	0	0	0	0	0	0	0	0	120
Pepperdine U.	453	120	0	0	0	0	0	0	0	0	0	120
Eastern Kentucky U.	455	118	0	2	108	0	0	8	0	0	0	0
Bucknell U.	456	115	0	0	0	0	0	0	8	9	98	0
Carleton C.	457	112	0	0	0	0	0	0	106	0	0	6
Purdue U., Northwest	458	111	0	0	0	0	0	0	0	0	2	109
Gallaudet U.	459	109	0	1	0	0	0	6	102	0	0	0
South Carolina State U.	460	108	0	0	0	0	108	0	0	0	0	0
Northern Michigan U.	461	106	0	11	95	0	0	0	0	0	0	0
U. Arkansas, Pine Bluff	462	105	0	0	105	0	0	0	0	0	0	0
Christopher Newport U.	463	102	0	0	0	0	0	43	0	0	59	0

TABLE 66

**Federally financed higher education R&D expenditures, financed by all other federal agencies, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	Other agency R&D expenditures <sup>a</sup>	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Albion C.	464	98	0	0	0	0	98	0	0	0	0	0
Indiana U. Pennsylvania	465	97	0	0	42	0	0	0	2	0	0	53
James Madison U.	465	97	0	0	60	0	0	0	0	0	0	37
Central State U.	467	96	0	0	0	0	0	0	0	0	96	0
Citadel Military C. South Carolina	468	93	0	0	18	0	0	15	0	0	59	1
Eastern Michigan U.	469	92	0	0	0	0	0	0	0	0	81	11
Southern U. and A&M C., Baton Rouge	470	87	0	0	0	0	25	0	0	0	0	62
SUNY, Geneseo	471	86	0	0	0	0	0	0	0	0	0	86
St. Cloud State U.	472	85	0	0	85	0	0	0	0	0	0	0
Bowdoin C.	473	83	0	49	34	0	0	0	0	0	0	0
Midwestern U.	474	82	0	0	82	0	0	0	0	0	0	0
Franklin W. Olin C. of Engineering	475	79	0	0	0	0	0	0	0	0	79	0
Northland C.	475	79	0	0	12	0	0	3	8	0	0	56
C. New Jersey	477	77	0	0	7	0	7	0	0	0	0	63
Bates C.	478	76	0	0	0	0	0	35	41	0	0	0
U. Wisconsin-Green Bay	478	76	3	10	12	1	1	2	5	0	27	15
DePaul U.	480	72	0	0	12	0	0	9	0	0	0	51
Abilene Christian U.	481	70	0	0	0	0	0	0	0	0	0	70
SUNY, Downstate Health Sciences U.	482	65	0	0	65	0	0	0	0	0	0	0
Santa Clara U.	483	64	0	0	0	0	0	0	0	0	20	44
U. Southern Maine	483	64	0	0	64	0	0	0	0	0	0	0
Swarthmore C.	485	62	0	0	0	9	0	53	0	0	0	0
Hope C.	486	61	0	0	0	0	26	0	0	0	0	35
U. Michigan, Flint	487	60	0	0	0	0	0	0	0	30	0	30
U. New England	487	60	0	56	4	0	0	0	0	0	0	0
CUNY, C. Staten Island	489	59	52	0	0	7	0	0	0	0	0	0
U. Oklahoma, Tulsa	489	59	0	0	0	0	0	0	0	0	12	47
Lipscomb U.	491	58	0	0	0	0	0	0	0	0	58	0
CUNY, Baruch C.	492	53	14	0	0	0	0	0	39	0	0	0
Hofstra U.	493	48	0	14	33	0	0	0	0	0	0	1
SUNY, Upstate Medical U.	493	48	0	0	48	0	0	0	0	0	0	0
Black Hills State U.	495	47	0	0	2	0	0	0	0	0	0	45

TABLE 66

## Federally financed higher education R&amp;D expenditures, financed by all other federal agencies, ranked by all R&amp;D expenditures, by R&amp;D field: FY 2021

(Dollars in thousands)

Institution	Rank	Other agency R&D expenditures <sup>a</sup>	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields	
Pratt Institute	495	47	0	0	0	0	0	0	0	0	0	47	
Purdue U., Fort Wayne	495	47	0	0	25	0	0	0	0	0	0	22	
Thomas Jefferson U.	495	47	0	0	18	0	0	0	0	0	0	29	
CUNY, Brooklyn C.	499	42	0	1	3	0	0	0	0	0	0	38	
U. San Francisco	500	40	0	21	19	0	0	0	0	0	0	0	
U. Texas, Tyler	501	39	0	0	0	0	0	0	0	0	39	0	
Yeshiva U.	502	37	0	0	37	0	0	0	0	0	0	0	
U. Wisconsin-Platteville	503	35	i	0	i	14	i	1	i	1	i	13	i
Niagara U.	504	34	0	0	0	0	0	0	21	0	0	13	
Oregon Institute of Technology	505	33	i	0	i	13	i	16	i	1	i	0	i
St. Olaf C.	506	30	0	3	4	0	0	1	16	0	0	6	
U. Hawaii, Maui C.	506	30	14	6	0	0	0	0	10	0	0	0	
Langston U.	508	29	0	0	0	0	0	0	0	0	0	29	
U. Puerto Rico, Cayey	509	28	0	0	0	0	0	0	28	0	0	0	
Fort Lewis C.	510	27	0	2	4	0	0	0	0	0	5	16	
Hamilton C.	510	27	0	0	0	0	0	0	0	0	0	27	
Sonoma State U.	510	27	0	5	22	0	0	0	0	0	0	0	
Keck Graduate Institute	513	26	i	0	i	10	i	0	i	0	i	7	i
Milwaukee School of Engineering	514	24	0	0	0	0	0	0	0	0	24	0	
Biola U.	515	23	i	2	i	0	i	5	i	1	i	8	i
U. Minnesota, Morris	516	22	0	0	0	0	0	0	0	0	0	22	
Mercyhurst U.	517	20	i	3	i	1	i	6	i	1	i	3	i
Willamette U.	517	20	0	0	0	0	0	20	0	0	0	0	
Davidson C.	519	18	0	0	0	0	0	0	0	0	0	18	
Claremont McKenna C.	520	17	0	17	0	0	0	0	0	0	0	0	
Loma Linda U.	521	16	0	0	8	0	0	0	0	0	0	8	
U. Wisconsin-River Falls	521	16	0	0	16	0	0	0	0	0	0	0	
Northwest Indian C.	523	15	i	0	i	15	i	0	i	0	i	0	i
U. Richmond	524	12	0	0	0	0	0	0	0	0	0	12	
U. Northern Iowa	525	11	0	0	0	0	0	0	4	0	0	7	
Alaska Pacific U.	526	10	0	10	0	0	0	0	0	0	0	0	
Marshall B. Ketchum U.	526	10	i	0	i	10	i	0	i	0	i	0	i

TABLE 66

**Federally financed higher education R&D expenditures, financed by all other federal agencies, ranked by all R&D expenditures, by R&D field: FY 2021**

(Dollars in thousands)

Institution	Rank	Other agency R&D expenditures <sup>a</sup>	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Oakland U.	526	10	0	0	10	0	0	0	0	0	0	0
U. Hartford	529	8	0	0	0	0	0	0	0	0	8	0
U. of St. Thomas (MN)	529	8	0	0	0	0	0	0	0	0	8	0
Rockefeller U.	531	6	0	6	0	0	0	0	0	0	0	0
C. Wooster	532	5 i	0 i	0 i	0 i	0 i	5 i	0 i	0 i	0 i	0 i	0 i
West Chester U. Pennsylvania	532	5	0	0	0	0	0	5	0	0	0	0
Xavier U. Louisiana	532	5	0	0	2	0	1	0	0	0	0	2
C. of Saint Benedict	535	4 i	0 i	0 i	1 i	0 i	0 i	0 i	0 i	0 i	0 i	3 i
U. Virginia's C. Wise	535	4	0	0	0	0	0	0	4	0	0	0
New York Institute of Technology	537	3	0	0	0	0	0	0	0	0	0	3
California State U., Channel Islands	538	2	0	0	0	0	0	0	0	2	0	0
Eastern Connecticut State U.	538	2	0	0	2	0	0	0	0	0	0	0
U. North Georgia	538	2	0	2	0	0	0	0	0	0	0	0
Alfred U.	541	1	0	1	0	0	0	0	0	0	0	0
Doane U.	541	1 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	1 i	0 i
Indiana U., South Bend	541	1	0	1	0	0	0	0	0	0	0	0
Ithaca C.	541	1	0	0	0	0	0	0	1	0	0	0
Keene State C.	541	1	0	0	1	0	0	0	0	0	0	0

i = imputed.

nec = not elsewhere classified; S&amp;E = science and engineering.

<sup>a</sup> Includes all other agencies reported.<sup>b</sup> Johns Hopkins University includes the Applied Physics Laboratory, with \$160,595 thousand in R&D expenditures financed by all other federal agencies in FY 2021.<sup>c</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.<sup>d</sup> The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.<sup>e</sup> The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.



**Note(s):**

Institutions reporting zero expenditures in ranked total for FY 2021 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2021.

TABLE 67

**Higher education R&D expenditures, by state: FYs 2010–21**

(Dollars in thousands)

State	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
United States	61,286,610	65,274,393	65,729,007	67,013,138	67,199,090	68,549,882	71,767,849	75,147,113	79,023,156	83,487,471	86,300,399	89,723,447
Alabama	847,072	898,422	830,538	837,871	812,803	898,010	944,506	994,210	1,052,494	1,123,491	1,186,697	1,272,489
Alaska	180,888	185,942	181,983	184,472	174,431	163,012	167,308	176,424	165,198	169,296	177,537	196,501
Arizona	944,795	997,700	1,039,424	1,065,136	1,047,329	1,099,837	1,162,283	1,213,469	1,358,920	1,434,177	1,499,135	1,516,463
Arkansas	267,405	282,628	289,364	294,572	285,691	293,494	298,497	312,533	343,066	364,781	370,782	387,674
California	7,832,767	8,225,420	8,401,638	8,357,891	8,403,770	8,656,350	8,887,228	9,225,392	10,169,222	10,477,932	10,902,613	11,229,857
Colorado	1,180,741	1,292,081	1,338,888	1,253,466	1,232,376	1,273,753	1,378,920	1,461,877	1,552,251	1,622,011	1,665,742	1,746,975
Connecticut	888,949	945,705	946,289	1,059,367	1,062,741	1,091,381	1,176,170	1,254,440	1,287,024	1,387,319	1,400,865	1,494,357
Delaware	168,511	188,765	185,842	197,262	193,242	191,704	197,615	204,221	207,569	229,287	243,550	254,725
District of Columbia	470,217	493,469	501,534	524,241	543,149	559,222	555,721	601,551	630,161	664,872	684,793	717,928
Florida	1,994,860	2,125,648	2,179,352	2,171,626	2,272,556	2,354,871	2,483,359	2,584,487	2,529,896	2,682,412	2,694,387	2,769,387
Georgia	1,691,603	1,808,679	1,882,308	1,956,245	1,950,990	2,046,068	2,168,071	2,340,410	2,473,503	2,650,343	2,782,005	2,949,654
Hawaii	317,942	330,838	335,704	343,802	335,189	332,233	318,134	301,204	297,975	301,419	298,285	294,913
Idaho	126,433	142,364	146,326	143,728	142,772	146,700	154,989	163,093	171,053	167,903	170,595	165,913
Illinois	2,224,414	2,352,326	2,362,224	2,501,413	2,327,098	2,382,947	2,400,990	2,503,276	2,570,270	2,709,733	2,764,233	2,914,398
Indiana	1,186,421	1,271,364	1,306,462	1,336,343	1,308,856	1,323,824	1,408,862	1,461,367	1,505,426	1,661,312	1,715,310	1,699,302
Iowa	706,667	724,608	718,281	714,366	773,760	758,796	814,031	830,587	885,861	880,424	917,407	931,207
Kansas	482,901	511,048	527,122	545,364	547,813	562,254	559,279	577,566	640,735	703,716	739,872	785,055
Kentucky	575,277	596,081	586,240	550,941	533,834	516,754	546,527	583,143	596,532	615,383	641,301	655,290
Louisiana	713,675	727,510	699,228	671,580	665,754	662,778	683,125	690,958	744,283	778,357	798,373	830,787
Maine	137,516	139,983	120,072	104,573	124,688	103,102	100,351	122,740	128,500	151,249	153,262	165,224
Maryland	3,139,254	3,416,687	3,359,741	3,433,145	3,573,167	3,741,687	3,799,639	4,017,092	4,167,470	4,629,161	4,745,030	4,914,256
Massachusetts	2,749,926	2,949,264	3,214,549	3,532,767	3,500,516	3,673,620	3,796,798	3,928,192	4,059,931	4,305,676	4,389,620	4,568,999
Michigan	2,031,479	2,161,520	2,219,505	2,267,080	2,242,864	2,334,031	2,468,498	2,662,045	2,781,359	2,891,267	2,867,807	2,842,492
Minnesota	831,754	898,741	864,938	901,404	919,257	928,999	961,040	968,784	999,660	1,060,927	1,086,730	1,115,363
Mississippi	443,625	460,962	476,078	416,772	410,543	408,232	454,983	479,122	479,431	535,774	506,660	491,172
Missouri	1,087,432	1,121,330	1,098,287	1,074,632	1,050,665	1,074,115	1,151,047	1,188,439	1,260,217	1,368,942	1,444,375	1,582,870
Montana	207,827	195,267	196,721	185,996	181,127	181,680	195,125	229,206	230,099	273,459	290,297	330,081
Nebraska	400,660	412,756	438,303	444,917	454,744	464,664	481,383	513,581	535,911	572,488	586,777	575,986
Nevada	174,247	165,437	153,325	153,427	153,571	157,528	191,155	205,761	260,074	282,740	296,470	308,745
New Hampshire	311,455	359,839	366,337	354,296	365,537	357,665	379,991	455,859	471,347	473,061	484,313	498,518
New Jersey	1,075,872	1,141,570	1,113,109	1,173,474	1,130,474	1,106,186	1,158,998	1,261,174	1,350,470	1,336,562	1,393,596	1,352,770
New Mexico	422,868	405,339	400,952	403,776	412,428	390,913	367,031	370,329	369,927	365,769	376,331	473,020
New York	4,948,442	5,288,932	5,352,978	5,519,542	5,638,584	5,700,230	6,075,419	6,388,367	6,633,634	7,075,350	7,171,446	7,577,235
North Carolina	2,465,260	2,668,842	2,681,840	2,739,920	2,814,943	2,814,924	2,937,671	3,081,568	3,204,297	3,388,360	3,385,735	3,503,943
North Dakota	204,049	211,057	215,642	219,115	222,032	217,926	226,572	255,942	255,534	263,217	267,308	307,556

TABLE 67

**Higher education R&D expenditures, by state: FYs 2010–21**

(Dollars in thousands)

State	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Ohio	2,051,857	2,221,827	2,128,968	2,168,267	2,158,565	2,152,796	2,193,019	2,299,112	2,370,346	2,499,431	2,518,803	2,787,835
Oklahoma	400,731	444,722	437,180	420,067	419,653	419,602	488,559	505,940	517,283	533,785	604,114	622,581
Oregon	696,272	739,733	722,421	704,764	705,688	719,881	759,243	780,741	820,988	863,844	894,789	929,355
Pennsylvania	3,128,420	3,315,363	3,239,240	3,361,374	3,328,851	3,356,723	3,950,517	4,178,978	4,406,037	4,650,139	4,820,067	4,934,724
Rhode Island	428,738	459,321	495,366	479,162	447,469	453,291	462,777	332,483	368,079	390,575	395,730	425,750
South Carolina	660,415	620,533	636,534	648,137	655,757	665,319	687,110	699,199	736,318	742,924	742,557	753,287
South Dakota	131,165	136,305	129,200	117,361	104,962	103,368	106,941	112,916	115,860	118,377	110,619	100,534
Tennessee	938,237	1,016,915	1,025,283	1,032,124	1,133,373	1,077,068	1,091,835	1,183,795	1,293,909	1,337,211	1,408,786	1,629,860
Texas	4,416,323	4,661,517	4,651,322	4,813,050	4,898,443	5,036,366	5,254,298	5,472,126	5,622,830	5,970,929	6,620,370	6,849,522
Utah	562,349	627,180	622,244	688,972	693,796	733,407	573,106	611,015	812,458	924,632	950,562	993,876
Vermont	132,792	137,303	120,226	121,110	114,549	119,663	120,306	122,003	131,670	138,716	193,824	198,247
Virginia	1,199,244	1,390,412	1,379,440	1,419,504	1,381,078	1,411,176	1,462,939	1,551,003	1,684,274	1,814,048	1,918,654	1,942,260
Washington	1,358,061	1,502,284	1,475,365	1,561,573	1,537,190	1,548,580	1,645,843	1,715,069	1,779,849	1,805,214	1,827,021	1,881,044
West Virginia	194,834	210,899	202,118	196,492	195,675	199,167	199,164	210,259	211,695	212,963	217,788	231,347
Wisconsin	1,335,621	1,442,933	1,483,983	1,419,426	1,412,594	1,372,168	1,458,791	1,504,025	1,542,080	1,659,741	1,746,640	1,771,499
Wyoming	55,319	57,549	65,611	65,490	51,422	56,996	112,056	125,032	113,063	80,353	93,061	93,202
American Samoa	ne	ne	ne	ne	ne	1,337	793	ne	ne	860	ne	815
Guam	5,555	5,626	6,131	6,043	7,075	6,062	7,402	8,842	11,225	12,249	13,043	17,666
Puerto Rico	125,123	163,853	151,532	135,659	123,285	126,792	120,619	113,868	103,935	121,074	111,101	123,707
Virgin Islands	32,350	21,994	25,719	20,041	20,371	20,630	21,215	12,298	11,957	12,236	13,631	15,231

ne = not eligible; no institutions within the state met the criteria for inclusion.

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.



TABLE 68

**Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–21**

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Arkansas State U., Jonesboro	11,115	13,435	14,250	10,463	8,099	8,453	8,169	7,952	8,245	8,945	8,640	8,422
U. Arkansas for Medical Sciences	119,518	122,066	129,056	133,677	131,438	132,451	125,378	128,508	139,187	153,135	174,549	194,709
U. Arkansas, Fayetteville	113,909	120,007	123,199	125,501	125,824	133,660	145,020	157,791	175,498	180,225	165,887	164,443
U. Arkansas, Little Rock	11,007	12,039	10,500	13,107	8,068	7,003	7,604	6,833	8,167	9,975	9,711	7,397
U. Arkansas, Pine Bluff	8,343	9,415	9,082	8,911	8,198	8,425	8,873	8,136	8,349	9,024	8,540	8,713
U. Central Arkansas	2,670	2,821	3,277	2,913	4,064	3,502	3,453	3,313	3,620	3,477	3,455	3,990
California												
Public												
California Polytechnic State U., San Luis Obispo	19,732	16,532	17,412	16,067	15,096	16,312	18,081	17,979	16,352	25,249	26,605	25,953
California State Polytechnic U., Pomona	6,493	7,198	6,597	6,988	5,455	4,611	5,254	5,863	8,043	6,099	7,396	7,011
California State U., Bakersfield	2,083	3,162	1,241	2,602	2,432	3,192	3,161	4,652	5,577	7,591	7,053	6,253
California State U., Channel Islands	ne	524	ne	1,236	3,862	1,949	1,383	1,096	1,248	1,572	1,497	2,341
California State U., Chico	2,881	2,684	2,492	2,868	2,384	1,837	2,363	1,600	2,452	3,232	4,305	4,209
California State U., Dominguez Hills	2,743	2,780	2,894	4,671	3,614	i 2,557	2,790	1,858	2,043	1,957	2,065	2,690
California State U., East Bay	1,312	1,644	1,039	934	ne	ne	837	ne	ne	ne	9,072	20,108
California State U., Fresno	8,698	8,597	8,359	7,682	8,109	8,624	8,586	8,102	8,988	8,599	8,856	9,213
California State U., Fullerton	21,776	28,186	22,222	18,478	7,919	5,611	5,755	5,510	6,348	7,173	5,929	9,006
California State U., Long Beach	15,494	14,595	i 13,696	i 12,796	10,097	8,830	16,390	18,805	22,880	18,664	16,684	15,134

TABLE 68

**Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–21**

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
California State U., Los Angeles	7,714	8,823	7,192	7,659	5,172	5,010	5,371	8,274	9,594	12,476	10,590	9,382
California State U., Maritime Academy	ne	3,005	2,793	2,480	1,011	1,542	2,205	1,921	3,039	2,959	3,202	2,799
California State U., Monterey Bay	5,305	6,959	6,567	6,129	4,787	5,492	5,680	5,397	5,799	6,444	5,874	6,882
California State U., Northridge	29,469	25,654	29,491	9,640	12,991	13,333	16,330	17,979	19,618	21,095	21,228	16,573
California State U., Sacramento	15,207	16,344	14,053	15,564	13,136	17,930	20,676	21,106	21,429	23,544	24,939	23,699
California State U., San Bernardino	4,188	11,591	9,303	11,942	13,582	15,317	10,771	12,924	16,702	16,062	10,819	11,607
California State U., San Marcos	5,788	6,795 i	7,802 i	8,809	8,302	6,432	6,634	6,549	8,348	10,595	13,250	10,213
California State U., Stanislaus	ne	1,487	1,881	1,342	1,136	1,080	1,248	1,365	1,394	1,477	1,843	2,085
Humboldt State U.	9,845	9,570	9,510	8,025	8,306	11,218	16,143	15,969	15,044	15,076	14,236	14,103
Naval Postgraduate School	103,510	101,363	132,450	94,880	99,032	89,170	65,529	60,386	59,213	67,323	62,903	65,101
San Diego State U.	99,137	106,591	92,867	86,733	95,674	93,572	90,722	89,187	88,177	92,964	97,710	107,681
San Francisco State U.	25,615	26,198	30,291	33,885	29,457	26,345	28,273	29,940	30,903	31,888	33,828 i	35,768
San Jose State U.	38,241	40,149	34,727	38,326	43,509	45,037	41,662	39,192	41,366	44,309	47,301	60,100
Sonoma State U.	858	825	ne	1,938	1,714	1,163	693	ne	ne	ne	1,545	2,957
U. California, Berkeley	694,049	707,945	730,348	727,002	744,343	788,505	774,255	770,822	796,505	802,931	840,000	846,872
U. California, Davis	679,915	707,896	713,292	725,734	711,721	721,077	741,892	738,347	788,832	804,282	816,693	817,409
U. California, Irvine	327,594	344,678	350,030	347,773	340,056	329,798	345,319	361,414	426,610	448,967	490,597	523,752
U. California, Los Angeles	936,995	982,357	1,003,375	966,659	948,197	1,021,227	1,037,528	1,076,917	1,318,110	1,306,376	1,392,941	1,454,880
U. California, Merced	21,591	21,328	22,656	22,909	23,916	29,688	29,370	35,093	38,226	44,890	45,966	45,964

TABLE 68

## Higher education R&amp;D expenditures, by state, institutional control, and institution: FYs 2010–21

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
U. California, Office of the President	72,542	63,420	65,627	67,447	50,103	48,341	39,051	46,399	55,676	67,702	60,686	50,848
U. California, Riverside	130,288	132,238	135,494	132,617	133,558	144,511	152,233	163,632	167,847	177,655	184,894	189,600
U. California, San Diego	943,219	1,009,378	1,073,864	1,075,554	1,067,388	1,101,466	1,087,117	1,133,454	1,265,196	1,353,763	1,403,735	1,425,499
U. California, San Francisco	935,509	995,226	1,032,673	1,042,841	1,084,031	1,126,620	1,294,261	1,409,398	1,595,732	1,595,098	1,651,073	1,710,036
U. California, Santa Barbara	225,730	230,435	233,883	236,497	231,322	222,870	230,139	238,246	235,164	243,778	254,434	248,961
U. California, Santa Cruz	143,919	155,617	155,516	150,777	151,734	151,713	151,192	124,344	127,538	142,958	150,400	160,615
Private												
Azusa Pacific U.	ne	3,620	2,056	ne	ne	7,521	8,898	8,430	8,380	5,598	7,068	5,318
Biola U.	ne	ne	ne	ne	ne	ne	1,000	1,034	1,085	1,155	1,187	1,243
California Institute of Technology	362,172	377,514	379,713	347,105	367,182	374,424	371,060	400,312	391,003	399,931	449,651	438,624
Chapman U.	3,830	3,547	3,314	4,463	4,794	5,353	6,554	10,626	14,141	19,592	26,660	25,820
Charles R. Drew U. of Medicine and Science	22,152	22,150	20,580	18,547	20,686	14,128	13,360	15,652	11,490	13,739	13,682	13,228
Claremont Graduate U.	7,116	6,589	10,350	9,705	9,540	9,375	9,210	9,045	8,880	8,715	9,403	7,235
Claremont McKenna C.	5,725	5,316	5,365	5,414	5,463	ne	6,094	5,818	5,693	6,214	5,846	4,515
Fielding Graduate U.	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	843
Harvey Mudd C.	3,214	3,861	3,512	3,595	3,127	3,272	4,332	3,748	3,790	3,353	2,916	2,359
High Tech High Graduate School of Ed.	ne	ne	ne	ne	ne	ne	ne	ne	861	ne	3,304	5,032
Keck Graduate Institute	ne	2,313	1,920	2,357	2,132	1,722	1,814	1,875	1,967	2,095	2,152	2,254
La Sierra U.	ne	732	ne	ne	1,057	1,165	1,255	2,202	2,227	1,581	1,647	1,517
Loma Linda U.	35,990	39,409	31,772	31,715	23,375	25,519	22,977	21,846	19,892	17,938	15,984	14,029

TABLE 68

**Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–21**

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Loyola Marymount U.	4,557	6,455	5,746	6,766	7,635	6,389	7,504	7,071	7,911	7,272	7,193	12,819
Marshall B. Ketchum U.	ne	ne	ne	ne	1,030	1,468	1,491	1,512	i 1,451	i 1,430	i 1,357	i 1,351
Mills C.	1,679	2,237	2,747	3,869	3,619	3,159	3,540	3,353	1,850	1,643	1,541	850
Occidental C.	2,289	1,809	1,592	1,634	2,177	1,544	2,008	1,764	1,445	2,458	2,657	3,587
Pepperdine U.	2,672	1,924	2,571	2,400	2,401	2,714	3,178	2,396	1,954	2,170	2,006	2,655
Pomona C.	2,924	3,640	3,259	3,679	3,818	3,538	3,691	3,205	2,983	2,985	2,855	2,146
Santa Clara U.	3,816	2,407	3,329	2,376	2,883	1,659	2,056	2,145	2,299	2,319	2,682	3,142
Scripps Research Institute	387,298	400,768	398,673	399,899	386,231	384,161	364,670	354,582	396,839	427,734	444,964	485,435
Stanford U.	839,839	907,971	903,238	945,450	959,247	1,022,551	1,066,269	1,109,708	1,157,597	1,204,116	1,203,950	1,274,483
Touro U.	1,221	1,779	2,237	2,155	3,067	3,106	3,466	3,122	3,233	3,543	3,551	3,489
U. of the Pacific	6,120	4,704	5,291	4,563	4,088	2,734	3,013	2,155	3,014	3,078	1,713	1,371
U. San Diego	2,934	3,483	4,275	4,554	5,146	4,476	4,734	5,089	5,642	6,036	8,607	7,580
U. San Francisco	2,124	2,668	4,301	2,663	2,764	2,599	2,365	2,602	2,741	2,712	2,161	1,375
U. Southern California	592,791	603,294	623,544	645,636	687,222	691,031	702,866	764,322	891,625	909,683	941,198	955,565
Western U. of Health Sciences	1,786	1,768	3,005	3,721	5,474	4,904	6,895	6,187	5,140	4,951	5,899	6,688
Colorado Public												
Colorado School of Mines	44,879	48,704	58,836	59,091	59,695	58,349	60,931	59,477	60,372	70,397	78,517	81,443
Colorado State U., Fort Collins	302,896	330,784	375,919	313,238	307,978	317,219	331,862	338,404	374,955	398,477	407,302	447,197
Colorado State U., Pueblo	413	364	ne	ne	ne	ne	ne	ne	ne	3,107	3,104	2,990
Fort Lewis C.	392	606	ne	ne	ne	ne	ne	ne	ne	1,460	1,370	1,926
U. Colorado Anschutz Medical Campus <sup>a</sup>	na	na	na	na	na	na	na	na	na	na	na	562,855
U. Colorado Boulder	349,449	390,677	392,004	385,849	379,475	420,775	453,123	499,389	514,573	513,822	525,674	547,724
U. Colorado Colorado Springs	9,088	7,425	4,727	4,721	5,363	6,988	6,812	6,680	5,976	4,720	5,557	5,338





TABLE 68

**Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–21**

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Public												
National Defense U.	ne	ne	ne	5,865	7,682	5,542	6,447	6,293	4,276	4,231	4,583	3,786
U. of the District of Columbia	5,012	4,422	4,030	3,073	2,361	2,043	3,469	3,733	2,960	4,800	4,590	8,104
Private												
American U.	39,747	46,611	43,526	61,087	63,628	58,325	57,064	56,034	61,741	71,053	71,839	65,912
Catholic U. of America	21,454	25,397	24,971	23,235	22,331	24,265	25,139	24,282	25,497	24,484	25,221	35,548
Gallaudet U.	7,652	7,161	6,765	6,769	5,655	4,477	6,947	7,603	7,617	5,382	4,599	6,126
George Washington U.	196,917	197,621	196,448	202,428	227,995	241,117	231,829	245,519	260,656	269,799	270,369	266,108
Georgetown U.	159,355	169,916	180,308	178,995	172,726	176,131	183,788	212,319	221,449	240,960	258,659	279,932
Howard U.	40,080	42,341	45,486	42,789	40,771	47,322	41,038	45,768	45,965	44,163	44,933	52,412
Florida												
Public												
Florida A&M U.	53,474	53,326	52,263	51,149	46,367	46,522	45,390	37,578	39,682	42,470	41,319	47,124
Florida Atlantic U.	56,472	62,024	65,377	23,967	22,997	21,214	26,750	46,025	48,024	51,085	53,845	58,471
Florida Gulf Coast U.	13,906	17,051	14,393	14,204	9,626	8,992	7,335	6,025	5,115	5,907	6,671	8,197
Florida International U.	110,271	110,006	118,058	128,070	132,531	163,033	170,846	177,292	196,180	225,864	236,842	246,075
Florida Polytechnic U.	na	na	na	na	na	212	ne	ne	ne	2,006	1,091	1,269
Florida State U.	227,329	230,411	225,378	250,877	252,548	256,449	268,288	282,901	297,661	329,205	350,430	328,604
U. Central Florida	117,985	109,190	116,891	126,681	185,555	215,519	198,211	200,387	215,332	225,085	213,757	218,596
U. Florida	681,548	739,931	696,985	695,063	708,526	739,522	791,294	801,418	865,093	928,639	942,223	959,965
U. North Florida	8,041	9,379	7,031	4,480	3,674	3,689	5,141	6,476	9,994	12,341	13,573	15,782
U. South Florida <sup>b</sup>	385,029	394,963	443,206	459,409	488,641	485,354	505,965	557,889	385,686	391,325	333,344	405,088
U. West Florida	17,757	21,710	16,221	19,332	19,579	31,232	40,815	35,054	41,035	38,555	37,397	36,837
Private												
Embry-Riddle Aeronautical U.	12,189	16,289	19,376	16,484	15,393	11,942	16,761	13,335	16,767	12,478	17,786	19,830
Florida Institute of Technology	12,054	14,523	17,100	13,298	14,255	14,282	18,860	18,180	17,378	17,876	18,271	23,195

TABLE 68

## Higher education R&amp;D expenditures, by state, institutional control, and institution: FYs 2010–21

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Nova Southeastern U.	10,116	12,322	12,908	12,712	13,716	14,775	19,559	22,508	23,296	24,567	26,035	24,513
U. Miami	280,671	323,486	365,301	344,757	345,805	331,036	358,441	367,877	357,104	360,716	381,410	375,841
Georgia												
Public												
Albany State U.	740	1,416	2,225	1,658	1,549	1,356	1,496	1,393	1,301	1,491	1,060	880
Augusta U.	na	na	na	64,033	64,118	67,737	71,338	99,661	99,081	96,502	103,961	116,480
Fort Valley State U.	5,310	3,850	3,665	3,688	4,547	4,320	5,138	5,374	3,916	4,563	4,921	4,842
Georgia Institute of Technology	615,833	655,375	688,905	730,488	725,550	765,370	790,706	804,301	891,728	960,167	1,048,988	1,114,481
Georgia Southern U.	3,704	3,912	5,719	18,069	20,245	17,152	17,395	16,084	12,978	11,166	12,166	37,201
Georgia State U.	81,015	92,725	91,148	111,999	123,915	139,596	161,314	200,171	201,235	195,572	202,451	206,472
Kennesaw State U.	1,854	1,961	3,511	5,062	2,192	4,762	8,279	9,510	11,214	12,850	17,954	18,880
Savannah State U.	1,874	2,700	1,996	2,613	2,210	1,801	2,267	1,407	1,793	1,720	1,804	1,804
U. Georgia	295,339	335,901	351,395	350,225	355,471	374,264	410,345	455,432	453,249	477,536	482,786	493,944
U. North Georgia	ne	ne	ne	ne	ne	ne	ne	2,064	2,465	2,068	1,905	1,415
Private												
Clark Atlanta U.	8,515	8,245	10,406	9,159	9,192	9,945	8,513	8,007	7,833	9,048	8,452	8,892
Emory U.	529,453	547,316	565,766	575,943	558,600	585,210	614,527	664,888	712,417	794,928	808,792	852,922
Mercer U.	27,298	29,039	31,376	28,892	30,209	32,838	31,735	29,447	34,197	44,128	49,116	51,989
Morehouse C.	7,857	8,485	9,113	9,581	7,349	6,180	4,315	3,667	4,531	4,564	4,825	4,533
Morehouse School of Medicine	30,669	33,946	37,586	36,638	41,858	33,367	38,774	36,925	33,215	31,289	29,813	32,637
Spelman C.	3,181	2,273	2,148	1,602	1,595	1,524	1,929	2,079	2,350	2,751	2,750	2,282
Hawaii												
Public												
U. Hawaii, Hilo	14,857	9,934	22,003	16,009	9,323	14,495	11,287	7,008	7,133	6,864	6,992	7,411
U. Hawaii, Manoa	303,085	318,316	312,311	326,750	324,342	316,497	304,476	292,021	276,388	280,416	275,929	271,768
U. Hawaii, Maui C.	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	967
U. Hawaii, system office	ne	ne	ne	ne	ne	ne	ne	ne	12,340	12,159	13,568	12,918

TABLE 68

**Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–21**

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Private												
Hawaii Pacific U.	ne	1,436	1,390	1,043	1,524	1,241	2,371	2,175	2,114	1,980	1,796	1,849
Idaho												
Public												
Boise State U.	18,731	24,204	27,920	25,690	26,568	31,341	32,085	34,992	41,382	39,824	43,307	46,065
Idaho State U.	20,495	21,450	21,179	22,147	20,610	17,866	20,447	18,564	18,081	14,972	14,478	13,953
U. Idaho	87,207	96,229	97,227	95,891	95,594	97,493	102,457	109,537	111,590	113,107	112,810	105,895
Illinois												
Public												
Illinois State U.	18,417	17,833	17,760	17,589	19,159	18,742	20,408	20,080	21,055	27,082	31,539	24,152
Northeastern Illinois U.	711	533	ne	ne	703	ne	ne	1,403	2,442	2,478	2,018	1,913
Northern Illinois U.	27,036	21,748	21,823	23,027	16,427	17,722	21,225	19,150	23,280	26,570	25,420	25,261
Southern Illinois U., Carbondale	69,924	71,130	71,097	70,854	65,256	57,509	53,172	48,416	49,636	41,729	41,617	47,210
Southern Illinois U., Edwardsville	31,781	33,736	26,992	25,807	18,915	19,051	18,780	17,393	18,420	18,088	18,273	18,044
U. Illinois, Chicago	362,939	380,828	388,625	367,848	347,888	354,560	337,296	372,619	361,690	382,949	412,147	429,585
U. Illinois, Springfield	2,096	2,002	2,370	2,276	1,916	2,070	1,683	2,900	2,164	1,876	3,406	2,612
U. Illinois, Urbana-Champaign	515,133	545,669	583,754	743,487	621,733	639,817	625,180	642,084	652,709	677,523	689,176	731,268
Western Illinois U.	1,221	1,528	4,514	1,983	1,349	860	ne	2,006	2,466	2,373	2,461	3,532
Private												
DePaul U.	4,889	5,798	5,706	5,524	6,415	9,479	9,558	8,561	7,079	6,144	6,557	6,675
Erikson Institute	ne	1,212	2,511	2,001	1,321	2,397	3,117	3,965	3,583	2,279	1,992	1,723
Illinois Institute of Technology	36,554	44,463	32,576	36,722	31,356	34,336	29,826	32,659	33,280	34,334	29,122	29,698
Loyola U., Chicago	43,903	42,708	45,903	51,676	50,774	48,664	42,672	39,738	39,332	39,223	39,365	44,036
Midwestern U.	3,626	4,022	5,200	6,292	7,310	8,560	7,732	9,207	10,173	10,343	10,479	10,961
Northwestern U.	575,078	618,980	631,078	639,781	645,333	656,167	713,491	751,809	805,672	857,069	874,671	913,178
Rosalind Franklin U. of Medicine and Science	12,426	14,261	15,587	17,401	17,794	16,604	16,760	17,006	16,765	16,126	14,601	13,805
Rush U.	73,398	79,212	80,300	81,770	80,551	79,048	73,351	74,062	89,101	96,267	94,438	107,398

TABLE 68

**Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–21**

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Toyota Technological Institute, Chicago	ne	746	ne	ne	ne	2,543	2,710	2,880	3,251	3,681	5,887	4,967
U. Chicago	437,721	453,562	419,631	402,621	390,082	412,536	420,997	433,328	423,993	459,171	458,891	497,651
Wheaton C., Wheaton	ne	1,187	844	ne	1,302	783	ne	1,270	1,751	2,173	1,322	729
Indiana												
Public												
Ball State U.	20,477	18,765	11,740	10,357	9,209	10,548	11,763	8,797	11,163	12,145	9,429	8,826
Indiana State U.	1,541	1,980	1,857	1,238	1,436	1,541	1,763	1,284	1,323	1,682	1,471	1,042
Indiana U., Bloomington	177,520	184,096	184,486	197,897	206,039	485,076	508,766	540,421	566,907	668,157	710,850	695,258
Indiana U., South Bend	1,070	1,099	1,219	1,410	1,565	1,619	1,474	1,039	958	ne	ne	898
Indiana U.-Purdue U., Indianapolis	296,194	322,617	316,914	332,760	324,261	55,973	57,853	58,056	60,501	67,635	70,778	65,330
Purdue U., Fort Wayne	8,523	8,864	8,570	8,128	7,882	7,052	5,952	5,254	4,945	2,416	2,264	2,495
Purdue U., Northwest	na	na	na	na	na	na	na	8,924	8,062	5,272	5,839	5,647
Purdue U., West Lafayette	548,980	578,231	602,501	595,739	564,923	558,611	606,302	622,813	631,574	663,927	687,144	679,482
Private												
U. Notre Dame	110,369	134,410	157,691	175,220	182,228	190,954	202,216	212,823	219,993	240,078	227,535	240,324
Iowa												
Public												
Iowa State U.	250,120	267,641	260,995	266,596	313,263	306,125	328,385	323,584	361,206	358,474	363,107	360,275
U. Iowa	444,034	443,893	446,429	435,377	449,147	443,218	473,362	494,280	511,973	508,353	538,583	553,876
U. Northern Iowa	3,064	4,248	3,615	3,678	3,711	4,032	3,632	3,303	2,983	3,628	2,970	3,259
Private												
Des Moines U.	855	924	ne	ne	929	ne	1,401	1,416	1,423	1,954	5,021	5,258
Dordt U.	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	696
Drake U.	1,033	966	ne	918	ne	ne	1,558	1,215	1,103	865	ne	1,488
Grinnell C.	2,069	1,340	2,735	4,023	3,974	3,723	4,183	4,953	5,573	5,500	5,826	4,122

TABLE 68

**Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–21**

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Palmer C. of Chiropractic, Davenport	4,693	4,861	4,507	3,774	2,736	1,698	1,510	1,836	1,600	1,650	1,900	2,233
Kansas												
Public												
Fort Hays State U.	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,143	1,172	800
Kansas State U.	160,679	169,167	176,141	183,096	184,945	188,721	193,254	196,478	218,299	218,622	213,900	203,846
Pittsburg State U.	1,759	1,687	1,479	1,536	2,475	2,210	2,162	2,255	2,253	2,513	2,173	2,730
U. Kansas	267,961	274,727	286,262	298,498	301,534	311,383	297,933	300,319	339,046	352,643	368,811	385,637
Wichita State U.	51,524	63,538	61,279	61,388	58,859	59,940	65,930	78,514	81,137	128,795	153,816	192,042
Kentucky												
Public												
Eastern Kentucky U.	3,531	3,782	3,404	2,845	2,221	1,681	1,486	1,248	1,142	1,125	1,010	986
Kentucky State U.	4,912	4,562	6,859	5,605	5,694	6,017	7,178	8,151	9,125	8,433	7,963	8,756
Morehead State U.	2,145	2,018	2,174	2,631	1,892	1,838	2,399	2,860	2,434	2,028	1,883	1,754
Murray State U.	3,396	3,718	3,345	2,192	2,080	2,371	2,124	2,459	2,872	3,710	3,019	3,844
Northern Kentucky U.	2,316	2,397	2,201	1,810	2,052	2,026	1,846	1,649	1,653	2,363	2,693	3,403
U. Kentucky	359,944	372,932	360,776	339,764	328,239	331,705	349,661	378,374	393,034	410,581	417,674	429,241
U. Louisville	189,090	197,438	196,842	186,772	183,376	163,262	172,907	177,588	176,655	177,862	198,818	200,362
Western Kentucky U.	9,943	8,344	10,639	9,322	8,280	7,854	8,926	10,814	9,617	9,281	8,241	6,944
Louisiana												
Public												
Grambling State U.	993	2,135	2,179	1,695	1,469	1,863	1,570	5,911	2,981	2,836	2,427	2,124
Louisiana State U., Baton Rouge	289,872	287,841	285,395	283,400	290,076	281,154	291,972	265,168	286,726	296,497	286,733	296,673
Louisiana State U., Health Sciences Center, New Orleans	59,776	57,007	53,712	49,443	45,486	46,840	43,067	40,785	38,989	40,914	43,419	44,370
Louisiana State U., Health Sciences Center, Shreveport	30,817	31,021	29,365	28,266	25,004	24,069	23,353	22,560	24,463	26,262	25,321	24,600

TABLE 68

## Higher education R&amp;D expenditures, by state, institutional control, and institution: FYs 2010–21

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Louisiana Tech U.	26,020	27,583	26,546	24,949	22,942	23,827	23,104	22,741	24,655	26,143	26,585	27,417
Northwestern State U. Louisiana	1,464	1,189	1,102	1,022	792	ne	1,628	1,373	1,623	2,058	1,940	1,663
Southeastern Louisiana U.	2,561	1,952	2,121	2,067	1,503	2,670	2,128	2,206	2,039	1,971	2,258	1,723
Southern U. and A&M C., Agricultural Research and Extension Center	ne	6,143	8,122	5,530	5,606	4,761	4,704	5,000	i 5,296	5,448	4,475	6,164
Southern U. and A&M C., Baton Rouge	6,865	6,819	i 6,773	4,920	4,812	4,766	4,322	4,043	4,171	4,492	3,849	4,943
U. Louisiana, Lafayette	69,412	69,978	65,275	61,887	67,580	77,300	80,099	100,956	124,713	144,187	164,070	181,400
U. Louisiana, Monroe	2,884	2,812	2,469	2,781	2,267	1,672	2,441	2,297	2,123	2,364	2,362	2,198
U. New Orleans	35,021	35,359	28,450	24,607	20,614	18,960	15,719	15,939	14,437	15,328	16,594	16,979
Private												
Dillard U.	8,425	7,936	i 7,448	7,741	6,939	9,387	9,566	7,095	6,573	2,772	2,523	2,528
Tulane U.	165,513	171,703	164,373	160,414	157,825	152,658	165,438	180,993	193,294	196,933	204,430	205,206
Xavier U. Louisiana	8,029	9,849	10,606	8,789	9,346	9,588	12,084	12,424	11,784	10,152	11,387	12,799
Maine												
Public												
U. Maine	111,282	111,600	92,135	77,583	101,247	79,500	79,222	99,502	106,694	129,913	134,183	146,801
U. Southern Maine	16,358	16,938	13,915	11,725	9,408	i 7,091	i 4,773	7,147	7,414	6,654	5,635	5,480
Private												
Bates C.	1,590	1,897	2,070	2,514	1,584	2,791	1,781	1,853	1,635	2,135	2,303	2,620
Bowdoin C.	2,627	2,877	4,732	4,292	3,126	2,991	3,204	2,340	2,724	2,991	2,719	2,417
Colby C.	1,782	1,772	1,996	1,822	1,673	1,748	1,903	2,071	2,240	1,852	1,536	1,672
U. New England	3,560	4,016	5,224	6,637	7,650	7,498	7,566	8,064	6,700	7,346	6,886	6,234
Maryland												
Public												
Bowie State U.	ne	1,910	1,739	1,422	1,761	1,497	1,927	1,813	1,839	1,911	1,967	1,398
Morgan State U.	12,804	12,803	17,751	15,475	15,720	13,577	15,727	14,978	12,993	13,253	17,193	20,628





TABLE 68

## Higher education R&amp;D expenditures, by state, institutional control, and institution: FYs 2010–21

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Amherst C.	3,628	4,623	5,448	6,275	4,308	4,412	4,260	4,070	4,849	6,325	4,906	4,636
Babson C.	ne	696	ne	ne	ne	ne	2,108	1,849	1,917	1,845	2,352	1,286
Boston C.	50,537	52,253	51,442	50,702	49,724	47,761	54,469	58,088	57,030	61,956	63,063	65,156
Boston U.	352,817	355,916	334,496	368,281	367,328	388,336	395,921	421,360	484,205	534,205	583,267	652,096
Brandeis U.	71,006	74,889	74,660	76,060	74,992	74,700	73,435	68,437	61,639	60,825	91,355	107,549
Clark U.	7,111	6,861	7,260	5,693	6,168	7,050	6,970	8,453	8,318	10,193	10,277	7,931
Franklin W. Olin C. of Engineering	ne	1,016	1,777	1,157	1,561	2,136	1,762	1,553	1,254	1,655	1,404	1,627
Harvard U.	583,361	649,774	799,432	1,012,766	933,975	1,013,753	1,077,253	1,123,160	1,173,371	1,239,736	1,239,983	1,254,008
Massachusetts Institute of Technology	677,138	723,610	824,130	900,524	908,017	930,719	946,159	952,017	964,336	1,009,466	987,968	949,076
MGH Institute of Health Professions	ne	607	ne	ne	ne	3,931	2,548	2,282	3,328	4,130	3,549	3,037
Mount Holyoke C.	2,788	3,317	3,323	3,118	3,871	3,826	3,403	3,635	3,027	2,979	2,016	2,026
New England C. of Optometry	1,457	1,751	2,237	2,172	1,234	1,077	980	ne	1,026	1,223	1,150	1,978
Northeastern U.	79,949	86,783	107,862	116,088	116,245	122,915	129,040	142,349	166,711	183,998	200,068	211,342
Smith C.	4,613	4,529	4,246	4,234	4,283	5,268	4,466	6,055	5,954	6,041	4,685	4,085
Suffolk U.	ne	1,624	1,303	1,551	1,534	1,305	1,492	1,679	ne	ne	2,106	2,043
Tufts U.	156,106	156,395	160,922	156,525	160,825	168,314	189,085	223,409	213,457	213,285	216,241	224,956
Wellesley C.	8,422	7,242	8,439	9,113	10,127	9,595	11,664	10,326	11,530	8,810	8,088	6,252
Williams C.	4,691	4,513	4,518	3,857	4,440	5,679	5,747	5,227	5,506	5,188	4,924	4,902
Woods Hole Oceanographic Institution	181,746	198,775	204,352	198,232	220,016	216,592	212,374	194,088	204,400	229,143	227,573	262,048
Worcester Polytechnic Institute	18,613	22,137	20,232	25,298	29,929	36,130	37,822	33,368	33,067	39,878	43,092	48,702
Michigan												
Public												
Central Michigan U.	7,483	8,671	10,907	12,879	15,015	12,880	14,166	14,652	15,616	17,102	17,448	21,726
Eastern Michigan U.	14,133	11,643	12,437	3,128	1,428	1,761	3,815	6,281	6,600	7,175	9,088	7,233

TABLE 68

## Higher education R&amp;D expenditures, by state, institutional control, and institution: FYs 2010–21

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Grand Valley State U.	5,044	6,429	i 7,814	i 9,202	8,198	7,453	6,764	6,917	6,968	6,592	6,792	6,809
Michigan State U.	431,373	454,248	507,061	515,707	526,906	558,248	613,369	694,917	715,290	725,708	713,197	710,178
Michigan Technological U.	63,471	70,089	71,989	70,689	68,526	69,607	72,536	71,629	78,678	80,443	77,927	81,715
Northern Michigan U.	910	841	ne	ne	ne	ne	1,118	1,339	1,728	1,520	1,523	1,364
Oakland U.	12,856	15,868	18,194	16,767	15,196	17,108	16,001	14,561	13,817	18,002	12,949	20,261
Saginaw Valley State U.	873	1,249	1,094	939	ne	1,220	1,190	1,406	1,640	2,818	2,343	2,428
U. Michigan, Ann Arbor	1,184,445	1,279,123	1,322,711	1,375,117	1,349,262	1,369,278	1,436,448	1,530,139	1,600,869	1,675,805	1,673,862	1,639,645
U. Michigan, Dearborn	6,779	7,554	6,015	6,846	8,176	7,802	7,904	8,315	8,094	8,813	8,777	7,472
U. Michigan, Flint	693	767	ne	ne	ne	ne	ne	1,466	1,237	1,448	1,247	752
Wayne State U.	254,492	259,895	227,070	224,331	218,435	213,878	221,537	227,728	238,859	244,217	243,259	235,519
Western Michigan U. and Homer Stryker M.D. School of Medicine	26,391	25,051	21,073	18,979	18,942	19,679	18,927	22,372	21,184	25,071	24,541	25,314
Private												
Albion C.	ne	799	ne	ne	ne	ne	ne	1,074	1,055	1,040	1,132	1,127
Andrews U.	1,195	854	ne	ne	ne	ne	ne	ne	ne	1,126	1,033	802
Calvin U.	5,010	3,113	3,252	3,466	3,051	2,430	i 1,809	1,456	1,937	1,577	1,497	i 1,490
Hope C.	3,596	4,185	3,376	3,559	3,016	2,932	2,811	3,225	3,179	2,745	3,822	5,211
Kettering U.	6,880	5,087	4,059	3,449	3,517	3,673	3,463	4,233	2,531	1,765	2,081	1,315
Lawrence Technological U.	3,952	3,348	1,483	2,022	1,876	2,528	1,907	1,942	1,668	1,352	1,521	1,764
U. Detroit Mercy	1,148	1,462	970	ne	1,320	1,882	3,654	2,748	4,605	5,210	4,786	4,578
Van Andel Research Institute	ne	ne	ne	ne	ne	40,502	40,040	44,578	55,171	61,738	58,982	65,789
Minnesota												
Public												
Minnesota State U., Mankato	3,837	2,654	2,082	2,640	3,310	2,294	4,034	2,471	2,943	3,392	2,754	2,170

TABLE 68

## Higher education R&amp;D expenditures, by state, institutional control, and institution: FYs 2010–21

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
St. Cloud State U.	4,184	3,404	2,932	2,912	3,380	4,192	3,497	3,588	3,725	3,275	3,056	2,379
U. Minnesota, Duluth	21,150	23,400	21,530	21,383	21,904	27,550	27,528	24,956	25,189	27,530	26,137	23,767
U. Minnesota, Morris	672	899	ne	1,534	1,338	1,223	1,029	974	ne	1,234	1,004	855
U. Minnesota, Twin Cities	786,074	847,419	826,173	858,378	876,870	880,618	910,181	921,681	954,683	1,013,112	1,042,382	1,072,961
Private												
C. of Saint Benedict	ne	867	ne	1,347	1,451	1,179	1,305	1,122	1,142	1,126	1,069	1,064
Carleton C.	4,575	5,382	4,957	5,848	5,657	6,746	6,385	6,888	5,515	4,388	3,732	3,800
Macalester C.	4,389	4,653	1,721	1,457	1,455	1,286	1,562	1,916	1,404	1,808	1,755	1,280
Saint John's U.	640	891	ne	1,444	1,623	1,372	1,459	1,267	1,208	1,191	1,130	1,125
St. Olaf C.	1,574	1,130	1,518	1,242	1,353	1,346	1,605	1,539	1,155	1,010	1,032	816
U. of St. Thomas (MN)	1,330	1,316	1,030	1,424	916	ne	1,266	1,241	1,645	1,870	2,679	5,146
Mississippi												
Public												
Alcorn State U.	10,280	11,397	11,515	11,315	10,060	9,396	8,204	16,129	13,834	14,435	13,710	14,188
Jackson State U.	44,862	49,998	46,943	36,264	26,609	23,908	23,832	22,790	19,465	18,160	15,081	16,157
Mississippi State U.	231,675	226,070	233,197	206,424	209,729	226,359	239,446	240,972	244,102	264,526	280,485	275,143
U. Mississippi	110,020	122,765	121,731	108,168	109,922	94,040	121,665	134,542	137,521	158,809	122,960	116,175
U. Southern Mississippi	42,059	46,591	60,079	51,962	51,938	51,840	59,363	61,659	61,336	76,464	72,322	67,417
Private												
Tougaloo C.	2,978	2,753	2,613	2,639	2,285	2,689	2,473	3,030	3,173	3,380	2,102	2,092
Missouri												
Public												
Lincoln U., Jefferson City	8,475	8,518	7,899	6,585	6,742	6,296	5,826	5,164	4,215	4,581	5,777	7,621
Missouri State U.	7,770	5,584	4,340	3,882	3,782	3,540	3,069	3,215	4,409	5,910	13,131	10,014
Missouri U. of Science and Technology	42,263	41,581	38,588	40,397	39,065	35,842	35,756	38,243	42,986	47,807	47,001	54,437

TABLE 68

**Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–21**

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
U. Missouri, Columbia	238,500	230,957	239,810	236,423	237,266	246,684	280,051	293,006	294,686	310,421	332,180	388,779
U. Missouri, Kansas City	30,163	32,769	29,227	28,829	29,164	26,595	26,292	25,123	25,136	31,956	36,356	33,855
U. Missouri, Saint Louis	14,628	18,461	19,356	20,869	18,618	12,061	13,460	12,042	12,266	14,432	15,352	14,632
Private												
Saint Louis U.	46,839	53,179	49,086	48,231	44,481	44,457	42,151	56,402	60,380	66,103	69,528	79,005
U. of Health Sciences and Pharmacy in St. Louis	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	4,835	5,313
Washington U., Saint Louis	695,974	725,039	706,410	684,847	664,752	694,069	741,115	754,462	816,139	887,088	920,215	989,214
Montana												
Public												
Montana State U., Bozeman	135,084	125,966	124,228	113,136	113,348	108,414	112,073	129,622	125,129	154,811	166,285	193,577
Montana Technological U.	7,424	6,705	11,765	11,059	11,348	11,595	11,851	13,059	12,666	12,731	12,987	14,933
U. Montana, Missoula	63,540	60,159	59,313	60,189	55,032	60,485	70,059	85,044	90,563	104,665	110,218	121,571
Nebraska												
Public												
U. Nebraska, central administration	ne	ne	ne	ne	ne	ne	ne	ne	13,352	18,860	23,672	21,295
U. Nebraska, Kearney	1,655	2,199	1,715	1,761	1,504	1,496	1,864	3,510	2,639	2,919	2,640	3,201
U. Nebraska, Lincoln	224,135	235,296	253,321	266,507	278,299	284,438	294,856	302,204	308,053	316,820	320,463	307,083
U. Nebraska, Medical Center	138,219	133,036	141,619	137,485	139,126	145,009	150,694	171,491	177,245	194,455	202,406	200,974
U. Nebraska, Omaha	8,951	9,509	8,376	9,181	9,222	9,422	10,459	12,061	12,943	14,302	16,134	19,006
Private												
Creighton U.	27,700	31,443	32,594	29,983	25,560	23,825	23,510	24,315	20,587	24,039	20,339	23,251

TABLE 68

## Higher education R&amp;D expenditures, by state, institutional control, and institution: FYs 2010–21

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021		
Doane U.	ne	1,022	678	ne	1,033	474	ne	ne	1,092	1,093	1,123	i	1,176	i
Nevada														
Public														
Desert Research Institute	34,367	35,331	33,056	27,695	23,778	22,103	29,422	29,440	27,875	26,991	26,428		26,365	
U. Nevada, Las Vegas	44,457	39,526	34,543	35,935	39,448	42,000	62,825	66,285	83,800	99,445	105,872		101,009	
U. Nevada, Reno	95,423	89,740	85,726	89,797	87,324	90,138	95,475	105,869	144,426	152,128	159,790		175,386	
Private														
Roseman U. of Health Sciences	ne	840	ne	ne	3,021	3,287	3,433	4,167	3,973	4,176	i	4,380		5,985
New Hampshire														
Public														
Keene State C.	ne	2,290	2,338	i	2,387	2,601	966	ne	908	ne	1,061		1,063	
U. New Hampshire	115,562	143,002	165,156	147,446	147,544	144,735	145,015	145,375	146,430	148,980	156,901		167,373	
Private														
Dartmouth C. and Dartmouth Hitchcock Medical Center	194,141	210,631	195,930	201,591	212,606	209,646	233,636	308,445	323,927	323,020	326,349		330,226	
New Jersey														
Public														
C. New Jersey	850	486	ne	ne	ne	ne	ne	1,078	949	ne	1,464		1,912	
Kean U.	ne	1,497	2,029	761	ne	1,064	908	ne	ne	ne	2,201		3,538	
Montclair State U.	2,255	3,621	5,123	4,568	4,266	4,274	5,207	5,796	7,980	15,588	17,636		17,390	
New Jersey Institute of Technology	92,318	100,491	102,851	107,310	106,081	110,512	130,812	142,164	162,349	161,232	163,447		166,587	
Rowan U.	2,987	3,247	3,783	3,407	8,202	8,044	10,212	12,856	16,247	22,892	26,018		26,458	
Rutgers, State U. New Jersey, Camden	3,574	5,079	3,810	5,722	4,919	5,123	4,250	5,103	3,264	3,211	3,950		5,142	
Rutgers, State U. New Jersey, New Brunswick	428,432	432,306	434,901	493,320	644,116	628,613	630,212	681,719	706,282	657,249	688,077		643,955	

TABLE 68

## Higher education R&amp;D expenditures, by state, institutional control, and institution: FYs 2010–21

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Rutgers, State U. New Jersey, Newark	27,745	35,774	34,797	37,134	28,083	24,387	21,492	25,898	27,206	26,661	28,006	23,854
Stockton U.	ne	1,455	927	ne	1,374	1,452	807	ne	2,560	2,634	4,236	1,246
William Paterson U.	1,051	1,452	ne	ne	ne	ne	1,919	3,012	9,456	10,122	9,603	7,867
Private												
Monmouth U.	2,195	1,956	904	ne	865	ne	900	ne	ne	1,294	1,729	1,667
Princeton U.	242,570	263,335	275,666	269,908	293,274	279,851	307,653	334,125	365,007	385,739	396,502	404,448
Seton Hall U.	4,003	7,701	6,398	6,489	6,675	7,058	7,244	7,272	6,536	7,056	5,718	5,320
Stevens Institute of Technology	35,544	41,622	31,929	28,908	30,826	34,082	35,765	35,144	33,060	36,695	44,747	43,386
New Mexico												
Public												
New Mexico Highlands U.	1,529	1,498	1,566	1,209	979	ne	1,111	1,023	952	ne	1,090	1,129 i
New Mexico Institute of Mining and Technology	51,696	43,857	37,875	32,499	48,338	26,265	19,598	20,491	21,383	24,616	24,591	28,745
New Mexico State U.	157,872	139,062	141,151	142,365	134,262	132,377	106,282	102,218	96,270	101,457	107,275	110,580
U. New Mexico	211,771	220,565	220,360	227,703	228,849	232,271	239,550	246,597	251,322	239,696	243,375	332,566
New York												
Public												
CUNY, Advanced Science Research Center	na	na	na	na	na	569	ne	3,541	5,666	8,310	11,373	15,403
CUNY, Baruch C.	2,616	2,645	3,605	2,264	2,183	2,451	2,998	2,543	2,817	2,387	2,396	2,521
CUNY, Brooklyn C.	6,846	9,306	9,216	8,064	9,407	9,091	9,602	7,393	6,600	6,837 i	7,074	6,318
CUNY, C. Staten Island	3,290	4,188	4,955	3,691	3,731	3,060	3,511	4,250	4,118 i	3,986	3,682	2,860
CUNY, City C.	46,699	60,648	57,982	55,138	52,654	53,223	62,484	54,627	53,979	52,738	45,632	57,361
CUNY, Graduate Center	11,562	11,974	9,173	11,982	7,797	6,175	7,093 i	8,011	4,781	5,399	4,787	4,265

TABLE 68

**Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–21**

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
CUNY, Graduate School of Public Health and Health Policy	na	na	na	na	na	na	na	na	9,751	9,521	12,177	15,035
CUNY, Hunter C.	38,900	39,772	41,022	40,059	38,879	36,368	37,094	31,273	33,702	37,478	38,345	33,816
CUNY, John Jay C. of Criminal Justice	5,916	6,205	9,319	7,355	8,633	8,689	9,688	11,934	14,310	12,295	13,939	11,791
CUNY, Lehman C.	3,593	3,762	3,228	2,904	3,265	3,130	5,347	4,979	5,556	4,690	4,154	4,181
CUNY, New York City C. of Technology	231	343	ne	ne	ne	ne	ne	ne	2,418	2,711	2,130	1,367
CUNY, Queens C.	16,845	23,219	22,399	19,762	23,434	19,092	19,168	15,936	16,676	18,391	16,470	16,063
CUNY, system office	ne	ne	1,817	1,210	1,088	1,782	1,655	1,114	3,253	2,619	1,704	1,664
CUNY, York C.	ne	2,180	1,544	999	ne	716	ne	ne	ne	1,621	1,691	1,133
SUNY, Binghamton U.	72,057	72,539	81,000	76,005	71,382	79,895	85,192	98,089	113,851	104,297	117,870	124,565
SUNY, Buffalo State	1,935	2,539	2,970	2,106	1,996	2,366	2,221	1,887	1,928	2,124	2,253	1,962
SUNY, C. Brockport	831	1,248	1,487	1,321	1,192	1,367	1,335	1,289	1,293	1,390	1,719	1,114
SUNY, C. of Environmental Science and Forestry	26,916	25,024	23,132	21,239	19,027	22,051	24,504	27,923	26,610	29,137	29,296	28,440
SUNY, C. of Optometry	3,529	3,738	3,466	3,637	3,481	3,906	4,169	3,304	3,120	2,968	3,477	3,460
SUNY, C. Plattsburgh	1,664	1,098	913	ne	1,008	1,135	1,020	1,003	1,604	1,729	1,452	1,280
SUNY, Downstate Health Sciences U.	32,512	41,993	43,257	39,354	33,331	28,652	33,735	31,873	34,661	36,015	33,204	34,459
SUNY, Geneseo	1,373	2,677	2,132	1,201	1,084	1,314	1,750	1,758	1,939	2,139	1,642	2,070
SUNY, Oswego	783	977	ne	725	ne	ne	ne	1,658	1,982	1,781	1,534	1,003
SUNY, Polytechnic Institute	na	na	na	na	412,851	295,313	316,680	308,861	257,358	352,889	355,651	465,273

TABLE 68

## Higher education R&amp;D expenditures, by state, institutional control, and institution: FYs 2010–21

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
SUNY, Stony Brook U.	204,728	211,356	219,744	225,712	211,631	220,580	230,621	238,612	245,016	260,813	263,470	274,516
SUNY, U. Albany	359,364	148,625	137,758	137,759	130,955	111,705	120,232	156,386	173,031	181,531	138,088	114,501
SUNY, U. Buffalo	349,670	353,172	360,226	387,863	386,562	382,935	389,569	401,591	410,220	413,817	422,038	425,349
SUNY, Upstate Medical U.	43,824	39,988	35,897	34,286	33,460	32,453	31,892	35,551	36,674	38,091	41,557	44,870
U.S. Military Academy	22,171	13,799	12,227	11,630	14,819	15,312	13,500	13,617	13,582	10,765	12,473	19,696
Private												
Albany C. of Pharmacy and Health Sciences	3,074	3,496	2,639	2,637	3,200	2,533	1,789	2,567	2,732	3,383	3,765	3,687
Albany Medical C.	22,953	20,876	17,735	15,093	16,093	18,043	20,166	20,443	21,187	23,028	23,510	22,443
Albert Einstein C. of Medicine	na	na	na	na	na	na	289,660	289,685	297,328	298,824	288,654	301,715
Alfred U.	4,524	6,084	5,451	6,731	4,655	5,193	3,975	3,231	3,641	5,153	2,780	2,660
Barnard C.	3,353	4,046	3,684	2,931	2,738	2,916	3,534	3,730	3,458	4,010	3,748	4,632
Canisius C.	221	205	ne	ne	ne	ne	ne	1,546	1,069	950	ne	1,036
Clarkson U.	18,584	17,951	14,809	12,061	13,750	13,406	12,983	15,148	16,927	17,147	15,104	16,765
Cold Spring Harbor Laboratory	ne	89,913	84,072	78,236	76,733	84,653	88,943	97,288	115,870	126,773	115,198	114,903
Colgate U.	2,851	2,291	3,268	2,704	2,444	2,721	3,219	3,414	3,823	3,756	2,913	3,306
Columbia U. in the City of New York	807,235	878,900	889,487	889,188	890,642	868,159	837,312	893,062	947,504	1,003,615	1,032,909	1,098,570
Cornell U.	749,721	781,651	802,387	845,184	883,292	954,412	974,199	984,478	1,071,621	1,144,534	1,190,063	1,183,524
Fordham U.	19,289	18,350	19,311	18,822	17,961	20,939	25,374	20,807	20,644	20,287	20,456	16,731
Hamilton C.	3,192	3,109	3,069	2,942	2,846	2,291	2,662	2,354	1,796	2,050	1,869	1,747
Hobart and William Smith Colleges	1,434	1,566	1,516	2,238	1,221	946	ne	952	ne	1,919	2,114	1,941
Hofstra U.	2,552	2,472	3,237	2,394	3,102	2,585	2,440	1,702	1,662	1,744	1,445	5,545
Icahn School of Medicine at Mount Sinai	370,666	405,527	400,680	428,654	463,429	508,353	540,296	575,448	640,141	722,241	747,014	820,260
Ithaca C.	1,077	1,025	1,132	1,245	1,248	972	ne	ne	ne	ne	1,199	1,030
Long Island U.	832	877	890	915	ne	ne	1,420	2,290	2,405	5,113	13,997	15,059





TABLE 68

**Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–21**

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Appalachian State U.	2,898	3,835	4,438	3,051	4,289	3,878	3,146	4,475	3,631	3,268	4,894	4,509
East Carolina U.	23,995	28,114	31,990	38,271	29,925	26,549	25,273	26,117	39,074	55,611	57,820	51,662
Elizabeth City State U.	5,576	10,455	4,455	4,515	2,988	2,277	1,889	1,340	978	ne	1,473	1,717
Fayetteville State U.	11,865	14,618	15,719	16,698	14,732	13,746	15,725	5,105	4,980	4,695	2,797	3,933
North Carolina Agricultural and Technical State U.	35,297	34,930	35,103	33,994	35,047	35,172	33,759	37,379	38,140	37,339	36,151	40,751
North Carolina Central U.	6,870	9,496	11,076	8,979	11,537	12,448	12,463	14,119	14,942	16,227	15,833	14,105
North Carolina State U.	360,795	378,154	404,225	417,468	446,112	468,293	489,918	500,445	509,841	541,100	546,290	547,118
U. North Carolina, Asheville	2,671	3,157	3,068	2,647	2,150	2,384	3,348	2,863	3,414	4,602	4,789	4,844
U. North Carolina, Chapel Hill	755,284	869,174	884,791	973,007	989,766	966,781	1,045,338	1,102,063	1,136,158	1,153,773	1,159,725	1,205,883
U. North Carolina, Charlotte	31,814	27,533	25,141	24,764	23,342	24,870	27,815	26,097	39,888	47,187	50,050	51,877
U. North Carolina, general administration	ne	ne	ne	ne	ne	4,197	4,137	3,721	4,843	4,154	3,942	4,024
U. North Carolina, Greensboro	22,436	26,121	19,080	16,590	20,723	23,026	23,965	23,231	22,743	26,325	28,966	37,033
U. North Carolina, Wilmington	23,143	22,593	19,722	18,145	14,648	15,564	15,715	16,015	16,955	17,515	16,544	16,656
Western Carolina U.	2,376	1,451	1,811	1,028	1,048	1,145	1,305	1,474	1,507	2,633	2,696	2,847
Winston-Salem State U.	ne	1,179	1,977	841	ne	ne	1,356	1,575	1,629	2,011	5,781	8,123
Private												
Davidson C.	1,493	1,977	1,400	2,337	1,804	2,377	1,521	1,736	1,638	1,777	2,263	2,466
Duke U.	983,289	1,022,207	1,009,911	992,821	1,036,813	1,036,698	1,055,778	1,126,924	1,167,611	1,226,517	1,196,638	1,237,686
Elon U.	ne	1,523	1,658	2,043	2,184	2,608	2,606	2,407	2,486	2,545	1,968	2,032
Johnson C. Smith U.	ne	ne	ne	ne	ne	ne	2,094	2,255	2,468	2,148	2,472	2,461



TABLE 68

## Higher education R&amp;D expenditures, by state, institutional control, and institution: FYs 2010–21

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021		
Langston U.	4,492	5,206	5,326	4,932	8,512	8,126	11,178	11,025	i	10,872	i	10,719	14,409	6,345
Oklahoma State U., Center for Health Sciences	4,398	2,815	2,122	2,137	1,805	1,625	2,182	2,454	2,608	5,408	8,378	7,758		
Oklahoma State U., Stillwater	147,094	162,786	166,523	134,500	126,543	129,968	181,617	189,024	188,756	184,276	187,060	198,799		
U. Central Oklahoma	1,786	1,548	1,028	1,067	1,362	7,691	6,275	5,832	5,104	5,682	5,788	i	5,997	i
U. Oklahoma, Norman and Health Science Center	218,089	249,297	240,974	255,674	253,344	242,367	259,998	272,239	283,638	302,679	362,209	380,048		
U. Oklahoma, Tulsa	ne	ne	ne	ne	ne	4,104	4,962	4,487	6,233	6,373	7,483	7,185		
Private														
U. Tulsa	23,387	19,489	20,270	21,757	27,077	25,066	22,347	20,879	20,072	18,648	18,787	16,449		
Oregon														
Public														
Oregon Health and Science U.	314,990	334,324	305,530	308,767	314,802	326,915	331,524	348,449	372,180	415,629	446,890	452,812		
Oregon Institute of Technology	ne	258	ne	ne	ne	2,056	4,027	3,595	i	3,163	4,793	4,267	4,314	
Oregon State U.	216,595	228,814	240,507	232,677	230,963	245,317	254,275	267,068	272,433	263,830	268,385	276,955		
Portland State U.	56,533	58,975	58,489	55,435	54,787	53,872	56,572	48,964	46,911	50,045	43,667	41,311		
U. Oregon	94,107	103,019	105,030	94,522	91,203	79,698	100,754	95,974	111,896	110,664	114,259	139,193		
Private														
Lewis and Clark C.	2,753	2,778	2,246	3,628	4,713	3,873	3,267	3,438	2,811	2,750	3,350	2,281		
National U. of Natural Medicine	ne	791	ne	ne	ne	ne	ne	921	ne	1,245	1,428	850		
Pacific U.	1,849	1,129	2,110	2,535	2,122	2,016	2,508	7,770	6,264	8,753	5,842	4,690		
Reed C.	1,904	1,839	1,837	2,395	3,124	3,050	3,213	1,415	2,607	3,240	5,155	5,132	i	
Willamette U.	2,059	1,940	2,652	1,960	1,698	2,007	2,459	3,147	2,723	1,953	1,546	1,817		
Pennsylvania														
Public														
Indiana U. Pennsylvania	1,376	1,736	1,809	1,280	938	ne	1,241	2,291	6,450	8,119	6,531	6,180		

TABLE 68

**Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–21**

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Pennsylvania State U., Behrend	3,265	3,183	3,374	3,203	4,282	3,737	5,382	3,804	2,760	3,414	1,743	5,509
Pennsylvania State U., Harrisburg	2,734	3,460	2,903	2,230	2,557	3,379	2,558	1,654	2,119	2,805	1,866	2,938
Pennsylvania State U., University Park and Hershey Medical Center	770,449	794,846	797,679	837,880	800,773	791,031	825,561	854,815	908,708	949,679	991,923	970,544
Temple U.	124,528	134,533	138,318	224,087	224,101	227,468	246,392	268,385	276,011	284,301	299,707	299,778
U. Pittsburgh, Pittsburgh	822,491	899,386	866,638	872,736	856,806	861,205	889,793	939,706	1,006,513	1,080,951	1,105,532	1,135,416
U.S. Army War C.	ne	ne	ne	ne	ne	ne	ne	ne	ne	4,418	ne	4,662
West Chester U. Pennsylvania	5,584	8,103	4,591	1,635	2,793	5,009	5,895	7,293	6,340	6,777	6,414	4,433
Private												
Arcadia U.	1,649	1,888	956	ne	ne	ne	ne	ne	ne	ne	ne	889
Bryn Mawr C.	7,476	8,388	9,837	9,452	9,143	11,692	10,867	11,146	10,282	9,846	11,575	8,987
Bucknell U.	5,456	5,043	4,009	4,297	4,464	4,140	4,516	4,892	5,269	5,625	5,051	4,476
Carnegie Mellon U.	222,790	242,882	255,933	271,277	251,222	242,004	319,168	328,100	331,383	359,720	386,996	402,376
Drexel U.	118,349	115,020	116,768	123,813	131,170	128,027	127,909	138,577	155,908	149,481	143,123	152,752
Duquesne U.	15,804	16,814	15,547	15,661	15,025	16,159	17,089	17,197	17,420	16,947	17,485	10,521
Franklin and Marshall C.	3,770	3,439	2,997	3,475	3,105	3,888	3,772	4,385	4,769	5,041	3,623	3,722
Haverford C.	3,620	2,765	2,588	2,769	2,546	2,633	2,173	2,442	3,041	3,752	4,473	3,835
Lafayette C.	2,089	2,426	1,864	1,947	1,915	1,693	1,553	1,831	1,815	1,554	1,390	1,015
Lehigh U.	37,332	32,086	31,992	35,220	37,066	36,788	32,941	36,969	38,674	38,185	38,064	41,279
Mercyhurst U.	2,040	1,206	1,539	1,414	1,914	1,987	1,647	1,669	ne	1,801	1,850	1,937
Philadelphia C. of Osteopathic Medicine	1,278	2,401	1,898	2,614	2,209	2,561	2,458	2,969	3,059	3,162	3,360	6,186
Saint Joseph's U.	2,918	3,073	2,955	2,921	1,988	2,093	2,171	2,409	2,151	2,851	3,150	2,922
Swarthmore C.	2,984	2,994	3,281	3,415	3,528	2,943	3,211	3,569	3,921	4,203	3,544	3,296
Thomas Jefferson U.	103,064	104,923	100,506	89,273	118,378	119,631	122,396	142,569	148,573	170,458	171,377	200,393

TABLE 68

## Higher education R&amp;D expenditures, by state, institutional control, and institution: FYs 2010–21

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
U. of the Sciences Philadelphia	1,964	3,504	3,610	3,765	2,922	4,076	3,308	3,980	3,671	3,740	3,761	4,005
U. Pennsylvania	836,322	886,036	847,077	828,422	828,350	864,068	1,296,429	1,374,293	1,441,931	1,506,285	1,579,364	1,631,950
Villanova U.	10,066	10,044	8,547	7,049	13,700	14,512	14,903	19,037	20,730	22,837	25,505	24,723
Rhode Island												
Public												
Naval War C.	ne	ne	2,938	2,700	2,736	2,653	3,210	4,240	5,270	5,060	5,944	5,542
Rhode Island C.	ne	8,027	10,389	10,385	8,938	10,080	9,943	9,030	9,287	9,480	10,094	10,990
U. Rhode Island	90,016	102,630	114,323	101,898	91,706	93,828	97,900	101,871	104,490	115,160	109,967	129,296
Private												
Brown U.	335,838	344,090	365,120	361,010	341,531	342,040	347,016	212,290	244,838	256,954	266,127	276,331
Providence C.	917	758	ne	983	ne	1,329	1,196	1,014	1,215	1,042	1,092	766
Rhode Island School of Design	ne	551	ne	ne	ne	1,013	1,071	1,086	1,042	1,027	975	971
Roger Williams U.	1,967	2,627	2,596	2,186	2,558	2,348	2,441	2,952	1,937	1,852	1,531	1,854
South Carolina												
Public												
C. Charleston	14,218	8,320	9,579	10,224	10,034	10,607	10,189	8,927	7,375	7,610	5,728	6,361
Citadel Military C. South Carolina	ne	415	ne	ne	ne	ne	ne	ne	ne	ne	1,012	2,054
Clemson U.	174,693	166,350	142,096	152,444	161,070	171,215	183,965	193,268	213,458	218,760	228,597	237,485
Coastal Carolina U.	2,404	2,162	2,412	2,516	2,166	1,862	1,779	1,893	1,631	2,042	1,903	2,245
Medical U. South Carolina	224,632	213,346	236,586	245,451	242,594	243,534	260,098	262,267	282,253	295,600	272,590	277,761
South Carolina State U.	7,167	10,037	12,909	12,809	12,709	12,607	13,076	14,300	15,130	3,659	3,796	3,933
U. South Carolina, Aiken	337	750	ne	1,309	1,133	1,154	1,445	2,961	2,602	2,481	2,590	2,042
U. South Carolina, Columbia	229,145	201,592	214,901	203,365	206,173	208,736	209,271	208,670	206,355	205,940	219,464	215,374
Winthrop U.	ne	5,089	7,993	12,495	13,981	10,156	1,993	1,826	2,007	2,189	2,217	2,586
Private												
Claflin U.	3,252	5,439	5,255	2,661	1,818	1,255	1,772	1,360	1,509	1,746	1,910	1,015
Furman U.	2,311	2,184	2,049	2,199	1,600	1,928	1,869	2,051	2,064	1,628	2,101	2,431

TABLE 68

## Higher education R&amp;D expenditures, by state, institutional control, and institution: FYs 2010–21

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021		
South Dakota														
Public														
Black Hills State U.	2,883	1,643	2,466	3,061	2,380	2,430	2,833	2,109	1,571	2,031	1,499	1,280		
Dakota State U.	ne	1,015	5,709	1,574	1,446	1,152	2,171	2,284	3,619	3,710	4,412	3,416		
South Dakota School of Mines and Technology	28,572	32,070	19,140	12,156	10,524	14,970	15,396	15,541	15,092	12,973	14,490	15,746		
South Dakota State U.	67,552	69,680	68,743	63,843	58,334	58,373	60,677	63,412	63,465	66,794	60,939	51,542		
U. South Dakota	30,616	28,959	31,982	33,187	30,700	25,661	25,864	28,358	30,943	32,028	29,279	27,537		
Private														
Augustana U.	912	1,578	1,160	1,045	1,106	782	ne	1,212	1,170	841	ne	1,013		
Tennessee														
Public														
Austin Peay State U.	ne	2,180	2,124	2,067	2,002	2,113	1,823	2,134	2,644	2,285	2,833	2,740		
East Tennessee State U.	9,869	10,249	11,213	8,919	7,836	6,930	7,982	9,493	14,043	14,197	13,925	18,449		
Middle Tennessee State U.	4,793	4,969	7,108	5,718	4,334	4,350	6,164	4,714	7,132	7,673	8,697	22,531		
Tennessee State U.	12,432	13,468	15,439	16,177	20,068	19,955	19,520	18,108	17,681	15,236	25,942	26,880		
Tennessee Technological U.	16,754	13,247	10,233	9,715	10,097	11,082	11,528	12,079	12,765	13,801	14,085	15,387		
U. Memphis	49,517	48,321	51,194	48,141	55,566	46,675	48,321	49,695	64,297	58,700	69,463	67,092		
U. Tennessee, Chattanooga	10,749	9,251	10,896	7,844	6,239	6,817	5,600	6,352	7,585	9,280	10,834	11,192		
U. Tennessee, Health Science Center	81,904	81,220	77,754	71,902	67,841	65,771	71,547	73,393	79,460	96,979	99,716	109,562		
U. Tennessee, Knoxville <sup>e</sup>	150,671	167,456	179,252	193,054	179,041	173,533	183,268	203,800	259,607	247,693	320,407	316,273		
Private														
Fisk U.	7,700	4,849	4,058	6,565	i	9,073	9,854	i	10,635	5,017	2,790	4,748	3,904	4,320
Lipscomb U.	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	307	i	321	

TABLE 68

**Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–21**

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Meharry Medical C.	27,001	29,055	25,559	22,532	18,997	13,998	14,768	16,782	16,980	18,286	13,870	15,840
Vanderbilt U. and Vanderbilt U. Medical Center	504,959	566,031	560,466	571,603	683,890	647,816	640,842	712,036	738,620	776,937	824,803	1,019,273
Texas												
Public												
Lamar U.	5,829	4,762	3,589	2,605	2,447	2,824	2,783	3,883	3,595	4,848	4,327	4,734
Prairie View A&M U.	12,565	15,243	14,552	13,198	12,292	13,123	12,616	13,982	17,278	18,018	18,723	17,582
Sam Houston State U.	7,555	5,816	4,349	4,608	3,996	3,086	3,266	3,658	7,152	9,445	12,437	13,315
Stephen F. Austin State U.	9,127	6,046	5,495	4,612	4,298	5,170	4,749	3,677	3,336	3,679	3,672	3,204
Sul Ross State U.	3,039	3,183	2,375	2,159	2,528	2,204	2,015	2,500	2,934	2,352	2,068	2,143
Tarleton State U.	10,763	10,426	9,393	9,722	10,996	9,825	9,404	10,893	12,503	13,171	14,890	17,729
Texas A&M International U.	2,428	3,121	3,344	3,674	3,441	2,917	3,742	4,745	5,735	6,068	3,067	3,740
Texas A&M U., College Station and Health Science Center	689,624	705,720	693,421	820,015	854,214	866,678	892,718	905,474	922,178	952,156	1,130,803	1,147,720
Texas A&M U.-Commerce	2,679	2,242	2,279	2,541	2,833	3,755	2,943	4,227	3,431	3,403	4,166	3,827
Texas A&M U.-Corpus Christi	17,266	17,509	15,776	17,418	21,321	24,507	24,786	27,993	30,253	32,944	32,284	30,500
Texas A&M U.-Kingsville	17,378	17,114	17,419	18,653	21,819	20,894	21,309	22,633	21,150	22,268	22,745	23,578
Texas Southern U.	7,003	6,318	6,380	6,548	6,038	5,005	4,495	4,722	3,740	4,893	10,138	9,128
Texas State U.	30,560	33,487	36,664	37,053	39,265	47,694	54,298	60,741	64,322	64,554	70,714	72,510
Texas Tech U.	133,360	149,399	138,026	142,676	159,308	163,897	172,521	191,482	185,742	193,923	199,643	197,739
Texas Tech U., Health Sciences Center	51,282	58,774	61,219	61,412	38,015	40,438	40,235	39,767	37,819	44,072	44,135	41,583
Texas Tech U., Health Sciences Center, El Paso	ne	ne	ne	ne	23,282	18,889	17,391	16,479	12,556	11,883	10,421	11,360



TABLE 68

**Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–21**

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Texas Woman's U.	2,271	2,919	4,129	2,704	2,650	2,310	3,014	4,073	4,822	4,477	4,135	4,943
U. Houston	119,811	113,709	116,288	130,844	140,597	150,628	162,049	169,431	177,484	195,398	200,428	202,536
U. Houston-Clear Lake	1,279	1,746	1,769	1,542	1,716	1,535	1,578	1,779	1,251	1,370	1,363	1,716
U. Houston-Downtown	1,013	1,351	2,267	1,444	2,414	2,459	1,784	2,397	2,508	2,216	2,299	1,828
U. North Texas, Denton	31,496	42,475	46,943	49,518	44,180	43,628	37,106	43,789	44,025	78,691	84,239	81,252
U. North Texas, Health Science Center	38,862	45,943	46,865	44,904	47,002	46,335	50,567	48,476	49,503	50,124	42,766	50,698
U. Texas Health Science Center, Houston	240,772	261,172	236,250	233,256	233,737	234,299	237,016	246,060	258,411	271,525	273,862	308,823
U. Texas Health Science Center, San Antonio	207,115	198,655	184,298	175,983	172,716	170,277	194,885	169,200	179,219	188,483	202,572	219,734
U. Texas Health Science Center, Tyler	ne	ne	ne	ne	ne	12,191	11,799	16,292	17,949	i 19,606	i 21,265	27,928
U. Texas M. D. Anderson Cancer Center	599,529	663,279	685,814	718,096	794,980	833,406	852,095	888,029	929,710	969,496	1,051,297	1,124,971
U. Texas Medical Branch	188,399	193,555	180,888	180,198	178,014	173,506	179,541	185,106	181,831	175,372	180,595	185,759
U. Texas of the Permian Basin	1,417	1,232	1,707	1,146	1,532	1,725	1,561	1,152	668	ne	2,105	3,504
U. Texas Rio Grande Valley	na	na	na	na	na	na	31,007	29,500	27,125	52,016	56,702	58,187
U. Texas Southwestern Medical Center	419,220	431,883	435,085	440,620	434,627	438,824	442,666	461,797	474,260	496,697	595,939	632,134
U. Texas, Arlington	71,414	72,483	78,556	86,735	89,175	77,798	87,386	97,197	105,688	123,858	133,793	126,477
U. Texas, Austin	589,502	632,171	621,538	634,132	585,251	604,376	621,692	652,187	679,781	696,111	797,199	779,348
U. Texas, Dallas	82,044	93,230	90,700	98,842	99,727	98,551	106,205	113,205	113,315	126,661	132,192	122,825
U. Texas, El Paso	68,870	74,069	79,649	83,249	79,537	89,418	91,330	94,565	91,032	106,809	108,628	109,410

TABLE 68

**Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–21**

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
U. Texas, San Antonio	56,279	58,667	57,233	53,626	47,061	54,949	59,831	70,163	72,682	84,326	138,586	145,362
U. Texas, Tyler	5,679	2,766	8,520	5,317	6,894	4,610	2,844	1,837	1,828	2,063	2,007	2,279
West Texas A&M U.	7,346	5,847	6,937	5,510	5,407	4,513	4,048	4,943	4,797	5,437	6,220	9,920
Private												
Abilene Christian U.	662	487	ne	ne	ne	ne	ne	ne	ne	ne	ne	4,597
Baylor C. of Medicine	447,874	466,061	474,700	508,799	496,314	520,220	572,527	604,952	623,396	651,920	685,641	716,976
Baylor U.	10,925	12,343	10,161	13,616	20,729	24,642	26,767	29,400	31,936	33,304	39,765	48,809
Rice U.	97,903	110,235	117,223	131,003	138,536	144,679	154,543	167,277	161,831	182,564	198,681	207,404
Southern Methodist U.	18,742	24,453	24,397	22,544	32,401	29,282	31,819	29,879	31,140	42,562	43,081	41,960
St. Edward's U.	ne	7,160	5,906	8,040	3,975	9,515	9,325	10,149	10,431	9,650	9,619	9,527
Texas Christian U.	5,306	5,595	7,775	8,574	7,872	8,007	6,589	7,255	5,808	6,552	15,326	15,336
Trinity U.	1,446	1,355	1,611	3,094	2,992	2,633	2,383	3,274	3,244	3,736	3,472	2,905
U. of the Incarnate Word	ne	667	ne	ne	ne	848	ne	ne	1,338	1,800	1,469	1,982
Utah												
Public												
U. Utah	379,200	414,316	430,056	494,058	486,140	518,928	350,212	380,295	552,306	601,133	607,061	624,737
Utah State U.	149,169	174,167	157,355	158,352	169,605	175,353	180,590	187,314	219,397	283,917	304,256	325,223
Private												
Brigham Young U., Provo	32,997	37,142	33,843	36,562	38,051	39,126	42,304	43,406	40,755	39,582	38,569	43,916
Vermont												
Public												
U. Vermont	129,856	132,356	115,697	115,486	109,701	114,547	115,611	117,667	128,293	135,859	191,147	195,320
Private												
Middlebury C.	2,292	2,408	3,031	2,179	1,450	1,599	1,822	2,043	1,895	1,657	1,720	2,927
Virginia												
Public												
Christopher Newport U.	1,110	1,669	1,327	1,187	1,508	1,208	1,172	1,264	1,732	1,961	2,608	2,656

TABLE 68

**Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–21**

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Eastern Virginia Medical School	44,420	36,569	37,745	44,183	43,917	42,296	32,550	28,671	30,010	27,064	20,870	19,415
George Mason U.	84,120	88,089	90,198	95,913	98,680	106,410	108,899	112,404	149,138	186,267	218,445	214,207
James Madison U.	7,038	7,303	8,891	5,835	4,628	3,712	3,303	3,248	4,191	8,726	10,247	14,687
Norfolk State U.	5,944	7,140	8,336	6,431	6,936	5,348	7,593	7,296	6,914	8,050	7,153	4,316
Old Dominion U.	97,176	102,192	104,579	99,138	67,037	65,092	70,054	67,990	60,321	67,425	65,704	62,332
U. of Mary Washington	ne	1,374	907	ne	ne	690	ne	ne	1,242	1,315	1,393	1,123
U. Virginia's C. Wise	481	336	ne	ne	ne	ne	ne	ne	ne	ne	ne	3,310
U. Virginia, Charlottesville	276,308	398,096	383,359	385,828	358,576	373,218	397,458	469,682	551,761	613,938	652,002	611,313
Virginia Commonwealth U.	197,709	207,756	201,366	196,015	201,858	218,925	225,999	235,464	246,190	255,648	283,874	364,096
Virginia Polytechnic Institute and State U.	398,169	450,058	454,417	496,169	513,149	504,282	521,773	522,425	531,636	541,969	556,341	542,045
Virginia State U.	7,466	8,562	10,296	9,535	8,374	7,808	8,147	10,725	10,673	11,457	10,014	10,123
William & Mary	57,461	58,919	55,805	57,940	59,015	61,554	63,027	64,127	65,269	64,835	66,763	68,801
Private												
Edward Via C. of Osteopathic Medicine	ne	2,453	2,576	4,992	2,633	2,237	5,692	8,119	7,601	7,225	7,475	6,629
Hampton U.	14,455	12,414	15,356	12,641	11,169	14,895	14,225	16,482	14,424	13,605	11,402	11,669
Liberty U.	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,780	1,894	937
Marymount U.	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	2,307
U. Richmond	4,052	4,064	4,282	3,351	3,598	3,069	3,047	3,106	2,784	2,783	2,469	2,294
Washington												
Public												
Central Washington U.	5,159	2,858	2,753	2,122	2,124	2,581	2,751	3,798	3,066	3,223	2,674	2,410
Eastern Washington U.	3,266	3,910	2,700	2,115	1,867	2,973	3,368	2,000	2,590	2,024	2,282	1,921

TABLE 68

## Higher education R&amp;D expenditures, by state, institutional control, and institution: FYs 2010–21

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	
Northwest Indian C.	2,426	2,744	i 2,847	3,247	2,609	1,631	i ne	ne	2,154	2,659	2,708	i 2,806	i
U. Washington, Bothell	630	2,857	4,285	4,704	7,550	7,657	8,406	10,219	8,097	7,950	7,107	8,311	
U. Washington, Seattle	1,022,740	1,148,533	1,109,008	1,192,513	1,176,340	1,180,563	1,277,679	1,348,220	1,413,902	1,425,601	1,456,902	1,488,645	
U. Washington, Tacoma	872	1,359	1,845	2,203	2,938	3,618	3,957	3,246	3,006	3,471	3,504	4,291	
Washington State U.	304,352	320,510	335,930	341,082	326,414	333,134	334,082	331,051	331,424	344,997	335,201	357,648	
Western Washington U.	10,571	9,498	7,597	8,157	8,567	9,921	10,743	13,014	13,075	11,983	12,823	13,450	
Private													
Seattle U.	1,337	i 1,274	642	ne	2,692	2,847	2,050	1,623	2,535	2,223	2,060	1,562	
West Virginia													
Public													
Marshall U.	24,501	26,723	18,998	19,617	20,382	19,936	20,687	18,348	20,050	19,622	22,250	23,620	
West Virginia School of Osteopathic Medicine	594	528	ne	ne	ne	ne	ne	ne	ne	ne	1,311	1,255	
West Virginia State U.	3,770	4,176	5,087	4,491	7,221	7,365	5,224	6,305	6,535	5,829	5,775	6,565	
West Virginia U.	154,926	166,420	169,303	167,144	164,454	170,145	172,477	185,606	185,110	187,512	188,452	199,907	
Wisconsin													
Public													
U. Wisconsin-Eau Claire	1,950	1,406	1,362	1,235	915	ne	1,238	1,641	1,227	1,530	1,318	1,852	
U. Wisconsin-Green Bay	1,219	1,239	i 1,259	i 1,279	i 1,299	i 1,320	1,599	1,510	1,454	2,083	1,982	1,879	
U. Wisconsin-La Crosse	4,141	3,862	i 3,583	3,796	3,424	3,615	3,211	3,187	3,569	2,692	2,795	3,001	
U. Wisconsin-Madison	1,029,295	1,111,642	1,169,779	1,123,501	1,108,564	1,069,077	1,157,680	1,193,413	1,205,518	1,297,331	1,363,931	1,380,075	
U. Wisconsin-Milwaukee	71,181	65,648	61,771	56,587	60,752	63,414	59,813	54,181	55,771	53,773	61,069	55,664	

TABLE 68

## Higher education R&amp;D expenditures, by state, institutional control, and institution: FYs 2010–21

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
U. Wisconsin-Oshkosh	1,556	2,384	2,331	2,167	1,935	i 1,703	i ne	1,507	i 1,544	i 1,581	i 1,618	i 1,656
U. Wisconsin-Platteville	681	715	i ne	ne	1,000	i 970	i ne	1,068	i ne	1,084	i 1,104	i 1,144
U. Wisconsin-River Falls	441	551	i ne	ne	ne	ne	ne	1,072	923	ne	1,107	999
U. Wisconsin-Stevens Point	6,766	6,171	i 5,576	4,392	3,919	i 3,446	i 2,973	3,420	i 3,867	i 4,314	i 4,764	4,401
U. Wisconsin-Superior	5,890	6,187	i 6,041	i ne	3,030	i ne	ne	ne	3,068	2,250	2,301	2,602
Private												
Marquette U.	14,310	19,876	18,606	20,856	23,633	24,816	28,422	30,034	32,471	37,777	37,136	37,087
Medical C. Wisconsin	191,816	215,358	209,040	201,237	199,713	199,283	199,925	209,618	229,436	251,300	264,325	276,850
Milwaukee School of Engineering	3,944	4,472	4,635	4,376	4,410	4,524	3,930	3,374	3,232	4,026	3,190	3,193
Northland C.	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,096
Wyoming												
Public												
U. Wyoming	55,319	57,549	65,611	65,490	51,422	56,996	112,056	125,032	113,063	80,353	93,061	93,202
American Samoa												
Public												
American Samoa Community C.	ne	ne	ne	ne	ne	1,337	793	ne	ne	860	ne	815
Guam												
Public												
U. Guam	5,555	5,626	6,131	6,043	7,075	6,062	7,402	8,842	11,225	12,249	13,043	17,666
Puerto Rico												
Public												
U. Puerto Rico, Cayey	927	1,474	1,916	1,726	1,795	1,521	1,415	1,109	1,359	1,870	1,974	1,881
U. Puerto Rico, Humacao	1,971	i 1,976	1,949	1,455	1,145	784	ne	ne	1,168	1,195	1,456	1,321
U. Puerto Rico, Mayaguez	26,475	34,424	32,115	29,225	27,152	28,100	25,491	26,130	24,769	26,877	26,553	18,368

TABLE 68

**Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–21**

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
U. Puerto Rico, Medical Sciences Campus	39,134	64,017	45,649	43,374	40,444	43,316	46,232	42,423	41,216	45,014	37,217	44,111
U. Puerto Rico, Rio Piedras	30,515	32,582	33,099	29,234	28,793	28,579	23,491	21,204	17,085	24,088	22,895	28,896
Private												
Albizu U.	165	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	428
Ponce Health Sciences U.	8,934	10,502	11,586	7,241	5,710	7,520	7,992	8,664	7,857	11,390	13,566	23,297
U. Ana G. Mendez, Gurabo	6,620	7,098	6,953	6,916	2,694	2,473	2,518	1,777	1,579	3,945	2,049	1,574
U. Central del Caribe	7,122	7,515	7,313	7,095	7,181	6,964	7,090	5,634	4,111	3,953	3,931	3,831
Virgin Islands												
Public												
U. of the Virgin Islands	32,350	21,994	25,719	20,041	20,371	20,630	21,215	12,298	11,957	12,236	13,631	15,231

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

<sup>a</sup> The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

<sup>b</sup> The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

<sup>c</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

<sup>d</sup> Johns Hopkins University includes the Applied Physics Laboratory, with \$1,949,752 thousand in total R&D expenditures in FY 2021.

<sup>e</sup> The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 69

**Higher education R&D expenditures, by state and source of funds: FY 2021**

(Dollars in thousands)

State	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
United States	89,723,447	49,143,460	4,736,015	22,448,362	5,115,480	5,590,273	2,689,857
Alabama	1,272,489	734,518	63,697	351,639	75,518	35,577	11,540
Alaska	196,501	144,543	3,617	40,547	3,703	2,185	1,906
Arizona	1,516,463	669,402	82,173	507,616	49,020	89,289	118,963
Arkansas	387,674	148,709	81,283	119,966	20,542	11,316	5,858
California	11,229,857	5,770,381	435,763	2,371,758	732,081	1,171,672	748,202
Colorado	1,746,975	1,269,099	65,611	193,624	82,884	89,451	46,306
Connecticut	1,494,357	841,978	10,040	434,302	87,096	107,751	13,190
Delaware	254,725	174,185	12,767	51,348	6,221	4,188	6,016
District of Columbia	717,928	375,192	6,985	177,678	25,301	95,094	37,678
Florida	2,769,387	1,333,317	273,283	894,472	104,512	104,369	59,434
Georgia	2,949,654	1,783,614	170,835	718,957	139,083	121,879	15,286
Hawaii	294,913	178,662	20,848	79,701	2,826	11,595	1,281
Idaho	165,913	89,594	37,775	31,110	2,757	1,520	3,157
Illinois	2,914,398	1,797,549	39,911	707,784	177,929	155,002	36,223
Indiana	1,699,302	767,854	44,138	595,282	110,373	118,866	62,789
Iowa	931,207	459,107	40,296	352,448	45,609	28,862	4,885
Kansas	785,055	343,696	83,259	201,262	121,826	19,949	15,063
Kentucky	655,290	331,080	45,998	199,017	18,685	19,409	41,101
Louisiana	830,787	362,723	91,071	231,144	92,424	29,624	23,801
Maine	165,224	75,798	20,790	59,785	3,701	4,095	1,055
Maryland	4,914,256	3,890,484	88,833	563,641	136,450	220,952	13,896
Massachusetts	4,568,999	2,615,651	48,120	1,005,685	311,606	424,453	163,484
Michigan	2,842,492	1,467,444	59,206	1,038,947	119,391	118,335	39,169
Minnesota	1,115,363	581,339	77,012	330,010	46,934	47,310	32,758
Mississippi	491,172	261,723	108,616	100,139	7,300	11,316	2,078
Missouri	1,582,870	882,908	44,450	407,646	128,426	106,630	12,810
Montana	330,081	190,076	24,303	102,374	3,087	6,759	3,482
Nebraska	575,986	262,730	74,774	161,841	30,895	21,495	24,251
Nevada	308,745	121,118	10,281	151,928	4,410	6,275	14,733
New Hampshire	498,518	252,552	8,993	191,319	12,593	23,171	9,890
New Jersey	1,352,770	701,933	108,029	295,109	64,849	120,093	62,757
New Mexico	473,020	332,896	31,084	77,661	8,051	16,305	7,023
New York	7,577,235	4,065,091	425,225	1,744,191	498,361	541,516	302,851

TABLE 69

**Higher education R&D expenditures, by state and source of funds: FY 2021**

(Dollars in thousands)

State	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
North Carolina	3,503,943	2,088,400	175,440	674,614	310,840	208,306	46,343
North Dakota	307,556	101,287	78,537	110,245	9,702	1,276	6,509
Ohio	2,787,835	1,594,939	70,829	765,814	192,581	121,836	41,836
Oklahoma	622,581	255,119	61,088	252,029	37,287	12,875	4,183
Oregon	929,355	626,641	57,459	129,056	50,292	48,919	16,988
Pennsylvania	4,934,724	2,794,237	104,849	1,327,092	341,497	260,399	106,650
Rhode Island	425,750	289,959	13,494	88,443	7,211	22,147	4,496
South Carolina	753,287	365,603	37,853	271,701	41,814	24,457	11,859
South Dakota	100,534	46,598	19,124	19,958	2,074	3,368	9,412
Tennessee	1,629,860	863,242	35,425	567,114	93,741	55,972	14,366
Texas	6,849,522	2,872,275	929,845	1,872,830	478,394	417,527	278,651
Utah	993,876	635,448	28,336	235,145	49,350	35,671	9,926
Vermont	198,247	106,193	727	74,424	1,989	9,062	5,852
Virginia	1,942,260	877,464	130,517	680,754	83,342	95,144	75,039
Washington	1,881,044	1,242,894	72,940	220,094	64,860	230,176	50,080
West Virginia	231,347	107,198	12,630	82,686	4,731	6,863	17,239
Wisconsin	1,771,499	830,859	156,597	529,125	60,477	147,255	47,186
Wyoming	93,202	54,444	4,681	26,166	6,088	1,756	67
American Samoa	815	815	0	0	0	0	0
Guam	17,666	14,316	1,705	1,465	24	156	0
Puerto Rico	123,707	85,484	3,055	29,659	4,600	650	259
Virgin Islands	15,231	13,099	1,818	17	142	155	0

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2021.



TABLE 70

## Higher education R&amp;D expenditures, by state, institutional control, institution, and source of funds: FY 2021

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
United States	89,723,447	49,143,460	4,736,015	22,448,362	5,115,480	5,590,273	2,689,857
Public	58,667,378	30,103,415	4,355,632	16,044,594	3,083,531	3,160,741	1,919,465
Private	31,056,069	19,040,045	380,383	6,403,768	2,031,949	2,429,532	770,392
Alabama	1,272,489	734,518	63,697	351,639	75,518	35,577	11,540
Public	1,251,134	719,094	61,021	348,915	75,518	35,577	11,009
Alabama A&M U.	9,065	5,967	2,534	447	117	0	0
Alabama State U.	2,631	2,338	0	0	287	6	0
Auburn U., Auburn	266,374	91,157	28,351	130,767	6,492	1,818	7,789
Jacksonville State U.	275	245	0	30	0	0	0
Troy U.	1,548	1,488	0	35	25	0	0
U. Alabama, Birmingham	644,330	423,290	9,355	116,561	61,764	31,641	1,719
U. Alabama, Huntsville	149,792	116,971	4,743	26,294	688	610	486
U. Alabama, Tuscaloosa	129,509	53,880	15,693	55,682	2,679	1,291	284
U. South Alabama	47,610	23,758	345	19,099	3,466	211	731
Private	21,355	15,424	2,676	2,724	0	0	531
Tuskegee U.	21,355	15,424	2,676	2,724	0	0	531
Alaska	196,501	144,543	3,617	40,547	3,703	2,185	1,906
Public	195,465	144,354	3,617	40,547	2,886	2,168	1,893
U. Alaska, Anchorage	21,332	15,079	1,631	3,747	348	356	171
U. Alaska, Fairbanks	172,957	128,229	1,956	36,765	2,534	1,758	1,715
U. Alaska, Southeast	1,176	1,046	30	35	4	54	7
Private	1,036	189	0	0	817	17	13
Alaska Pacific U.	1,036	189	0	0	817	17	13
Arizona	1,516,463	669,402	82,173	507,616	49,020	89,289	118,963
Public	1,516,463	669,402	82,173	507,616	49,020	89,289	118,963
Arizona State U.	677,303	274,541	43,390	258,139	23,580	56,958	20,695
Northern Arizona U.	69,129	41,744	10,179	14,963	839	1,286	118
U. Arizona	770,031	353,117	28,604	234,514	24,601	31,045	98,150
Arkansas	387,674	148,709	81,283	119,966	20,542	11,316	5,858
Public	387,674	148,709	81,283	119,966	20,542	11,316	5,858
Arkansas State U., Jonesboro	8,422	4,249	3,103	721	349	0	0
U. Arkansas for Medical Sciences	194,709	83,387	24,809	63,526	13,493	4,730	4,764
U. Arkansas, Fayetteville	164,443	48,534	50,207	51,933	6,561	6,257	951

TABLE 70

**Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U. Arkansas, Little Rock	7,397	6,939	79	3	139	94	143
U. Arkansas, Pine Bluff	8,713	3,960	2,216	2,502	0	35	0
U. Central Arkansas	3,990	1,640	869	1,281	0	200	0
California	11,229,857	5,770,381	435,763	2,371,758	732,081	1,171,672	748,202
Public	7,945,304	3,763,887	388,782	1,813,410	512,662	820,546	646,017
California Polytechnic State U., San Luis Obispo	25,953	11,163	2,537	9,139	1,053	2,003	58
California State Polytechnic U., Pomona	7,011	4,396	846	1,469	141	159	0
California State U., Bakersfield	6,253	3,827	215	2,160	0	51	0
California State U., Channel Islands	2,341	993	611	542	186	9	0
California State U., Chico	4,209	2,258	792	505	69	128	457
California State U., Dominguez Hills	2,690	2,001	19	670	0	0	0
California State U., East Bay	20,108	9,275	1,443	7,470	1,033	349	538
California State U., Fresno	9,213	4,101	1,086	2,278	186	1,232	330
California State U., Fullerton	9,006	4,551	251	3,904	97	203	0
California State U., Long Beach	15,134	11,178	877	1,113	195	528	1,243
California State U., Los Angeles	9,382	7,342	108	1,561	0	371	0
California State U., Maritime Academy	2,799	548	131	18	2,102	0	0
California State U., Monterey Bay	6,882	3,813	1,277	1,610	3	172	7
California State U., Northridge	16,573	13,989	353	1,051	81	1,099	0
California State U., Sacramento	23,699	5,582	11,012	5,344	147	508	1,106
California State U., San Bernardino	11,607	5,867	2,928	2,652	20	140	0
California State U., San Marcos	10,213	8,831	1,110	267	0	5	0
California State U., Stanislaus	2,085	1,354	104	112	504	11	0
Humboldt State U.	14,103	1,975	3,971	3,818	164	2,108	2,067
Naval Postgraduate School	65,101	54,855	0	9,608	264	62	312
San Diego State U.	107,681	43,473	4,107	56,085	523	2,340	1,153
San Francisco State U.	35,768	15,993	2,305	16,710	0	743	17
San Jose State U.	60,100	30,877	7,617	19,350	1,080	1,071	105
Sonoma State U.	2,957	2,212	366	261	69	49	0
U. California, Berkeley	846,872	354,478	40,383	185,077	71,696	137,896	57,342
U. California, Davis	817,409	373,719	75,116	207,272	56,160	44,693	60,449
U. California, Irvine	523,752	255,010	15,891	130,928	40,622	34,512	46,789
U. California, Los Angeles	1,454,880	721,043	71,014	302,528	87,959	194,232	78,104

TABLE 70

**Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U. California, Merced	45,964	18,621	7,048	14,224	373	1,290	4,408
U. California, Office of the President	50,848	653	29,282	20,864	0	0	49
U. California, Riverside	189,600	97,182	11,424	49,131	6,809	7,703	17,351
U. California, San Diego	1,425,499	801,117	51,346	250,863	85,003	87,380	149,790
U. California, San Francisco	1,710,036	683,179	33,056	418,589	128,370	254,406	192,436
U. California, Santa Barbara	248,961	122,168	5,213	54,569	20,480	28,768	17,763
U. California, Santa Cruz	160,615	86,263	4,943	31,668	7,273	16,325	14,143
Private	3,284,553	2,006,494	46,981	558,348	219,419	351,126	102,185
Azusa Pacific U.	5,318	212	59	4,893	2	152	0
Biola U.	1,243	714	18	302	80	98	31
California Institute of Technology	438,624	293,197	8,142	50,562	17,193	47,355	22,175
Chapman U.	25,820	8,574	612	10,273	567	5,766	28
Charles R. Drew U. of Medicine and Science	13,228	9,945	151	2,834	0	298	0
Claremont Graduate U.	7,235	1,152	306	1,275	1,518	2,355	629
Claremont McKenna C.	4,515	637	0	3,548	0	330	0
Fielding Graduate U.	843	791	0	52	0	0	0
Harvey Mudd C.	2,359	1,443	0	695	11	98	112
High Tech High Graduate School of Ed.	5,032	0	0	0	0	5,032	0
Keck Graduate Institute	2,254	1,201	0	697	144	35	177
La Sierra U.	1,517	812	0	137	0	568	0
Loma Linda U.	14,029	10,116	444	1,932	241	1,160	136
Loyola Marymount U.	12,819	2,170	1,393	8,148	20	1,088	0
Marshall B. Ketchum U.	1,351	343	0	668	340	0	0
Mills C.	850	683	0	0	0	129	38
Occidental C.	3,587	2,348	395	NA	392	452	0
Pepperdine U.	2,655	835	16	1,444	0	355	5
Pomona C.	2,146	930	9	1,140	0	67	0
Santa Clara U.	3,142	1,930	118	NA	558	536	0
Scripps Research Institute	485,435	272,181	2,103	147,290	22,399	41,462	0
Stanford U.	1,274,483	811,183	17,802	136,444	113,691	186,565	8,798
Touro U.	3,489	1,377	0	2,091	20	1	0
U. of the Pacific	1,371	1,106	211	NA	11	43	0
U. San Diego	7,580	2,554	26	4,203	0	414	383

TABLE 70

**Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U. San Francisco	1,375	255	200	466	0	434	20
U. Southern California	955,565	574,185	14,664	179,130	61,867	56,073	69,646
Western U. of Health Sciences	6,688	5,620	312	124	365	260	7
Colorado	1,746,975	1,269,099	65,611	193,624	82,884	89,451	46,306
Public	1,702,757	1,241,959	64,275	186,180	81,144	83,388	45,811
Colorado School of Mines	81,443	61,421	1,351	3,657	9,036	1,990	3,988
Colorado State U., Fort Collins	447,197	303,901	28,559	76,610	11,979	19,536	6,612
Colorado State U., Pueblo	2,990	1,508	1,244	201	0	0	37
Fort Lewis C.	1,926	1,746	14	124	42	0	0
U. Colorado Anschutz Medical Campus	562,855	363,999	25,162	69,836	48,309	45,580	9,969
U. Colorado Boulder	547,724	459,816	4,348	33,465	10,691	14,357	25,047
U. Colorado Colorado Springs	5,338	3,942	504	338	518	36	0
U. Colorado Denver <sup>a</sup>	18,039	11,866	3,047	804	493	1,671	158
U. Northern Colorado	3,159	1,942	46	945	8	218	0
U.S. Air Force Academy	32,086	31,818	0	200	68	0	0
Private	44,218	27,140	1,336	7,444	1,740	6,063	495
Colorado C.	5,467	3,725	385	575	0	782	0
U. Denver	38,751	23,415	951	6,869	1,740	5,281	495
Connecticut	1,494,357	841,978	10,040	434,302	87,096	107,751	13,190
Public	311,039	184,846	4,747	94,622	9,827	13,163	3,834
Central Connecticut State U.	1,314	663	254	390	0	7	0
Eastern Connecticut State U.	1,646	108	9	1,529	0	0	0
Southern Connecticut State U.	5,750	713	90	4,245	0	473	229
U. Connecticut	302,329	183,362	4,394	88,458	9,827	12,683	3,605
Private	1,183,318	657,132	5,293	339,680	77,269	94,588	9,356
Connecticut C.	1,244	439	0	785	0	20	0
Fairfield U.	849	147	0	354	0	348	0
Sacred Heart U.	972	675	0	244	0	53	0
Trinity C., Hartford	1,775	1,348	0	409	0	18	0
U. Hartford	1,252	766	0	361	5	120	0
U. New Haven	4,069	2,069	434	209	418	832	107
Wesleyan U.	8,009	4,032	0	3,004	62	854	57
Yale U.	1,165,148	647,656	4,859	334,314	76,784	92,343	9,192

TABLE 70

**Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Delaware	254,725	174,185	12,767	51,348	6,221	4,188	6,016
Public	254,725	174,185	12,767	51,348	6,221	4,188	6,016
Delaware State U.	23,193	16,460	2,432	4,094	195	12	0
U. Delaware	231,532	157,725	10,335	47,254	6,026	4,176	6,016
District of Columbia	717,928	375,192	6,985	177,678	25,301	95,094	37,678
Public	11,890	10,637	1,253	0	0	0	0
National Defense U.	3,786	3,786	0	0	0	0	0
U. of the District of Columbia	8,104	6,851	1,253	0	0	0	0
Private	706,038	364,555	5,732	177,678	25,301	95,094	37,678
American U.	65,912	12,076	513	42,117	774	9,199	1,233
Catholic U. of America	35,548	23,128	150	5,753	624	1,013	4,880
Gallaudet U.	6,126	2,140	192	3,049	0	327	418
George Washington U.	266,108	161,349	2,296	63,225	4,155	26,131	8,952
Georgetown U.	279,932	130,419	1,405	51,440	16,888	57,585	22,195
Howard U.	52,412	35,443	1,176	12,094	2,860	839	0
Florida	2,769,387	1,333,317	273,283	894,472	104,512	104,369	59,434
Public	2,326,008	1,064,022	252,744	807,515	67,239	78,300	56,188
Florida A&M U.	47,124	36,761	5,741	3,886	566	170	0
Florida Atlantic U.	58,471	28,510	5,852	13,984	2,762	4,968	2,395
Florida Gulf Coast U.	8,197	4,467	3,160	0	136	434	0
Florida International U.	246,075	105,309	19,445	111,950	2,311	6,437	623
Florida Polytechnic U.	1,269	459	91	606	89	17	7
Florida State U.	328,604	150,108	20,583	143,790	3,033	3,764	7,326
U. Central Florida	218,596	109,310	11,703	76,091	11,489	5,025	4,978
U. Florida	959,965	423,154	161,448	266,197	31,394	46,582	31,190
U. North Florida	15,782	7,267	1,297	7,084	47	64	23
U. South Florida <sup>b</sup>	405,088	185,364	23,254	161,442	14,798	10,584	9,646
U. West Florida	36,837	13,313	170	22,485	614	255	0
Private	443,379	269,295	20,539	86,957	37,273	26,069	3,246
Embry-Riddle Aeronautical U.	19,830	14,859	103	1,365	1,195	426	1,882
Florida Institute of Technology	23,195	13,049	1,743	6,485	824	703	391
Nova Southeastern U.	24,513	10,386	3,636	9,152	486	629	224
U. Miami	375,841	231,001	15,057	69,955	34,768	24,311	749

TABLE 70

**Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Georgia	2,949,654	1,783,614	170,835	718,957	139,083	121,879	15,286
Public	1,996,399	1,196,306	169,850	488,824	75,050	55,761	10,608
Albany State U.	880	552	203	0	125	0	0
Augusta U.	116,480	61,943	200	46,412	3,282	4,531	112
Fort Valley State U.	4,842	4,429	42	371	0	0	0
Georgia Institute of Technology	1,114,481	852,319	107,465	71,780	56,015	23,558	3,344
Georgia Southern U.	37,201	3,373	259	29,635	3,482	452	0
Georgia State U.	206,472	79,834	6,353	105,546	615	11,938	2,186
Kennesaw State U.	18,880	3,104	619	13,722	318	1,032	85
Savannah State U.	1,804	1,804	0	0	0	0	0
U. Georgia	493,944	188,451	54,706	220,665	11,212	14,029	4,881
U. North Georgia	1,415	497	3	693	1	221	0
Private	953,255	587,308	985	230,133	64,033	66,118	4,678
Clark Atlanta U.	8,892	5,355	0	3,435	57	45	0
Emory U.	852,922	515,940	298	213,741	58,517	62,768	1,658
Mercer U.	51,989	34,413	76	9,056	5,342	82	3,020
Morehouse C.	4,533	4,533	0	0	0	0	0
Morehouse School of Medicine	32,637	25,181	611	3,622	0	3,223	0
Spelman C.	2,282	1,886	0	279	117	0	0
Hawaii	294,913	178,662	20,848	79,701	2,826	11,595	1,281
Public	293,064	176,921	20,812	79,665	2,826	11,559	1,281
U. Hawaii, Hilo	7,411	5,510	53	1,260	166	421	1
U. Hawaii, Manoa	271,768	157,772	20,742	78,176	2,660	11,138	1,280
U. Hawaii, Maui C.	967	951	0	16	0	0	0
U. Hawaii, system office	12,918	12,688	17	213	0	0	0
Private	1,849	1,741	36	36	0	36	0
Hawaii Pacific U.	1,849	1,741	36	36	0	36	0
Idaho	165,913	89,594	37,775	31,110	2,757	1,520	3,157
Public	165,913	89,594	37,775	31,110	2,757	1,520	3,157
Boise State U.	46,065	31,357	2,402	10,836	576	670	224
Idaho State U.	13,953	7,216	1,982	3,937	387	264	167
U. Idaho	105,895	51,021	33,391	16,337	1,794	586	2,766
Illinois	2,914,398	1,797,549	39,911	707,784	177,929	155,002	36,223

TABLE 70

**Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Public	1,283,577	686,074	37,762	411,886	63,931	60,405	23,519
Illinois State U.	24,152	9,787	746	12,813	25	772	9
Northeastern Illinois U.	1,913	1,913	0	0	0	0	0
Northern Illinois U.	25,261	9,080	899	14,630	155	467	30
Southern Illinois U., Carbondale	47,210	12,655	492	25,725	7,901	437	0
Southern Illinois U., Edwardsville	18,044	3,844	71	13,848	221	22	38
U. Illinois, Chicago	429,585	237,949	8,027	137,227	13,998	25,065	7,319
U. Illinois, Springfield	2,612	1,071	670	839	0	32	0
U. Illinois, Urbana-Champaign	731,268	406,612	26,853	206,718	41,455	33,562	16,068
Western Illinois U.	3,532	3,163	4	86	176	48	55
Private	1,630,821	1,111,475	2,149	295,898	113,998	94,597	12,704
DePaul U.	6,675	4,518	150	1,120	203	666	18
Erikson Institute	1,723	772	16	31	0	904	0
Illinois Institute of Technology	29,698	24,762	291	2,080	1,074	861	630
Loyola U., Chicago	44,036	26,793	188	8,941	3,359	3,695	1,060
Midwestern U.	10,961	1,506	22	9,040	178	215	0
Northwestern U.	913,178	572,975	141	227,719	54,888	47,280	10,175
Rosalind Franklin U. of Medicine and Science	13,805	9,357	0	3,219	520	705	4
Rush U.	107,398	73,279	1,338	9,645	15,329	7,807	0
Toyota Technological Institute, Chicago	4,967	3,090	0	1,602	232	43	0
U. Chicago	497,651	394,275	3	32,174	38,215	32,167	817
Wheaton C., Wheaton	729	148	0	327	0	254	0
Indiana	1,699,302	767,854	44,138	595,282	110,373	118,866	62,789
Public	1,458,978	657,963	43,473	511,074	96,874	101,573	48,021
Ball State U.	8,826	2,469	266	5,153	702	236	0
Indiana State U.	1,042	582	244	135	68	13	0
Indiana U., Bloomington	695,258	326,326	3,863	264,093	29,077	70,216	1,683
Indiana U., South Bend	898	337	0	423	0	138	0
Indiana U.-Purdue U., Indianapolis	65,330	30,290	687	27,359	1,855	4,970	169
Purdue U., Fort Wayne	2,495	401	513	818	141	50	572
Purdue U., Northwest	5,647	2,280	531	1,536	667	93	540
Purdue U., West Lafayette	679,482	295,278	37,369	211,557	64,364	25,857	45,057
Private	240,324	109,891	665	84,208	13,499	17,293	14,768

TABLE 70

## Higher education R&amp;D expenditures, by state, institutional control, institution, and source of funds: FY 2021

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U. Notre Dame	240,324	109,891	665	84,208	13,499	17,293	14,768
Iowa	931,207	459,107	40,296	352,448	45,609	28,862	4,885
Public	917,410	454,935	40,022	344,077	45,373	28,325	4,678
Iowa State U.	360,275	169,177	34,097	122,844	19,837	9,644	4,676
U. Iowa	553,876	283,763	5,395	220,579	25,536	18,601	2
U. Northern Iowa	3,259	1,995	530	654	0	80	0
Private	13,797	4,172	274	8,371	236	537	207
Des Moines U.	5,258	485	266	4,247	3	257	0
Dordt U.	696	594	0	88	0	14	0
Drake U.	1,488	1,016	8	157	233	74	0
Grinnell C.	4,122	344	0	3,379	0	192	207
Palmer C. of Chiropractic, Davenport	2,233	1,733	0	500	0	0	0
Kansas	785,055	343,696	83,259	201,262	121,826	19,949	15,063
Public	785,055	343,696	83,259	201,262	121,826	19,949	15,063
Fort Hays State U.	800	482	37	185	48	6	42
Kansas State U.	203,846	77,779	42,139	68,224	6,671	7,814	1,219
Pittsburg State U.	2,730	759	1,001	NA	969	1	0
U. Kansas	385,637	187,249	33,921	112,360	27,517	11,831	12,759
Wichita State U.	192,042	77,427	6,161	20,493	86,621	297	1,043
Kentucky	655,290	331,080	45,998	199,017	18,685	19,409	41,101
Public	655,290	331,080	45,998	199,017	18,685	19,409	41,101
Eastern Kentucky U.	986	530	76	351	0	29	0
Kentucky State U.	8,756	3,716	4,870	0	72	98	0
Morehead State U.	1,754	1,727	3	12	11	1	0
Murray State U.	3,844	2,721	21	982	120	0	0
Northern Kentucky U.	3,403	2,156	13	774	2	458	0
U. Kentucky	429,241	220,703	33,287	127,488	8,529	11,078	28,156
U. Louisville	200,362	97,179	7,351	65,375	9,846	7,685	12,926
Western Kentucky U.	6,944	2,348	377	4,035	105	60	19
Louisiana	830,787	362,723	91,071	231,144	92,424	29,624	23,801
Public	610,254	236,434	85,920	179,511	84,145	13,880	10,364
Grambling State U.	2,124	731	595	798	0	0	0
Louisiana State U., Baton Rouge	296,673	103,178	70,166	98,424	11,492	5,959	7,454



TABLE 70

**Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Louisiana State U., Health Sciences Center, New Orleans	44,370	34,272	244	3,743	2,800	3,178	133
Louisiana State U., Health Sciences Center, Shreveport	24,600	12,359	19	8,765	297	3,160	0
Louisiana Tech U.	27,417	6,428	2,767	15,465	937	0	1,820
Northwestern State U. Louisiana	1,663	738	634	291	0	0	0
Southeastern Louisiana U.	1,723	795	55	663	197	13	0
Southern U. and A&M C., Agricultural Research and Extension Center	6,164	3,588	2,556	20	0	0	0
Southern U. and A&M C., Baton Rouge	4,943	3,770	95	374	704	0	0
U. Louisiana, Lafayette	181,400	65,436	7,472	40,891	67,346	255	0
U. Louisiana, Monroe	2,198	1,465	569	8	0	156	0
U. New Orleans	16,979	3,674	748	10,069	372	1,159	957
Private	220,533	126,289	5,151	51,633	8,279	15,744	13,437
Dillard U.	2,528	1,257	0	1,271	0	0	0
Tulane U.	205,206	113,819	4,442	49,660	8,279	15,569	13,437
Xavier U. Louisiana	12,799	11,213	709	702	0	175	0
Maine	165,224	75,798	20,790	59,785	3,701	4,095	1,055
Public	152,281	67,269	20,778	56,708	3,612	3,047	867
U. Maine	146,801	65,249	17,875	56,407	3,612	2,857	801
U. Southern Maine	5,480	2,020	2,903	301	0	190	66
Private	12,943	8,529	12	3,077	89	1,048	188
Bates C.	2,620	2,079	0	188	0	165	188
Bowdoin C.	2,417	1,836	6	440	0	135	0
Colby C.	1,672	750	0	427	0	495	0
U. New England	6,234	3,864	6	2,022	89	253	0
Maryland	4,914,256	3,890,484	88,833	563,641	136,450	220,952	13,896
Public	1,732,871	1,115,841	84,156	416,286	33,288	75,925	7,375
Bowie State U.	1,398	1,398	0	0	0	0	0
Morgan State U.	20,628	16,319	2,782	389	225	571	342
Salisbury U.	10,552	3,271	3,604	3,567	8	102	0
Towson U.	3,794	1,758	153	1,608	42	181	52
U. Baltimore	14,672	11,692	1,907	NA	0	745	328
U. Maryland <sup>c</sup>	1,142,264	713,283	42,597	307,481	30,638	43,450	4,815
U. Maryland Center for Environmental Science	51,201	14,072	25,740	8,670	496	1,636	587
U. Maryland, Baltimore County	84,418	59,882	7,220	12,334	1,860	1,979	1,143

TABLE 70

**Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U. Maryland, Eastern Shore	8,636	8,346	153	10	19	0	108
U.S. Naval Academy	10,818	10,247	0	169	0	402	0
Uniformed Services U. of the Health Sciences	384,490	275,573	0	82,058	0	26,859	0
Private	3,181,385	2,774,643	4,677	147,355	103,162	145,027	6,521
Johns Hopkins U. <sup>d</sup>	3,181,385	2,774,643	4,677	147,355	103,162	145,027	6,521
Massachusetts	4,568,999	2,615,651	48,120	1,005,685	311,606	424,453	163,484
Public	754,263	445,827	29,153	200,347	31,615	34,663	12,658
Framingham State U.	2,401	188	0	0	81	2,132	0
U. Massachusetts, Amherst	213,824	116,349	8,595	71,954	7,710	5,479	3,737
U. Massachusetts, Boston	63,723	23,673	7,113	25,532	2,222	4,829	354
U. Massachusetts, central office	3,541	342	2,417	256	1	504	21
U. Massachusetts, Dartmouth	28,729	8,223	1,422	16,908	1,488	513	175
U. Massachusetts, Lowell	94,708	48,179	4,201	36,562	3,444	1,664	658
U. Massachusetts, Medical School	347,337	248,873	5,405	49,135	16,669	19,542	7,713
Private	3,814,736	2,169,824	18,967	805,338	279,991	389,790	150,826
Amherst C.	4,636	1,375	0	1,895	0	71	1,295
Babson C.	1,286	0	0	566	160	293	267
Boston C.	65,156	34,257	1,632	12,870	522	15,071	804
Boston U.	652,096	402,443	501	160,347	20,071	45,146	23,588
Brandeis U.	107,549	52,147	404	34,998	1,418	9,045	9,537
Clark U.	7,931	2,754	74	3,633	0	1,431	39
Franklin W. Olin C. of Engineering	1,627	636	0	478	15	481	17
Harvard U.	1,254,008	616,589	5,137	384,197	55,357	172,327	20,401
Massachusetts Institute of Technology	949,076	483,526	3,213	116,258	177,759	92,386	75,934
MGH Institute of Health Professions	3,037	2,500	0	30	0	507	0
Mount Holyoke C.	2,026	1,539	0	200	0	287	0
New England C. of Optometry	1,978	1,623	26	149	175	5	0
Northeastern U.	211,342	143,421	2,227	44,964	9,547	10,718	465
Smith C.	4,085	2,433	16	1,118	74	436	8
Suffolk U.	2,043	634	0	1,261	0	148	0
Tufts U.	224,956	166,809	3,242	15,442	8,655	26,955	3,853
Wellesley C.	6,252	3,469	204	NA	138	2,024	417
Williams C.	4,902	1,152	0	1,625	0	134	1,991

TABLE 70

**Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Woods Hole Oceanographic Institution	262,048	222,351	1,029	16,006	2,804	9,792	10,066
Worcester Polytechnic Institute	48,702	30,166	1,262	9,301	3,296	2,533	2,144
Michigan	2,842,492	1,467,444	59,206	1,038,947	119,391	118,335	39,169
Public	2,760,416	1,437,180	57,272	1,002,275	118,458	112,860	32,371
Central Michigan U.	21,726	6,919	26	13,477	109	952	243
Eastern Michigan U.	7,233	2,237	185	4,618	71	119	3
Grand Valley State U.	6,809	1,415	418	3,398	0	1,023	555
Michigan State U.	710,178	349,889	41,609	275,632	11,016	17,600	14,432
Michigan Technological U.	81,715	41,505	576	30,768	7,078	422	1,366
Northern Michigan U.	1,364	366	8	769	0	127	94
Oakland U.	20,261	7,426	1,694	8,499	1,023	1,423	196
Saginaw Valley State U.	2,428	1,899	0	394	5	114	16
U. Michigan, Ann Arbor	1,639,645	891,125	2,066	581,768	91,117	63,650	9,919
U. Michigan, Dearborn	7,472	2,366	22	2,794	1,911	271	108
U. Michigan, Flint	752	113	0	367	203	38	31
Wayne State U.	235,519	117,976	9,594	72,758	4,228	26,574	4,389
Western Michigan U. and Homer Stryker M.D. School of Medicine	25,314	13,944	1,074	7,033	1,697	547	1,019
Private	82,076	30,264	1,934	36,672	933	5,475	6,798
Albion C.	1,127	289	0	838	0	0	0
Andrews U.	802	256	3	441	0	102	0
Calvin U.	1,490	942	27	5	83	158	275
Hope C.	5,211	1,992	493	1,463	0	1,207	56
Kettering U.	1,315	353	7	586	314	55	0
Lawrence Technological U.	1,764	284	701	2	434	343	0
U. Detroit Mercy	4,578	3,917	0	649	12	0	0
Van Andel Research Institute	65,789	22,231	703	32,688	90	3,610	6,467
Minnesota	1,115,363	581,339	77,012	330,010	46,934	47,310	32,758
Public	1,102,132	577,585	76,936	323,618	45,244	46,406	32,343
Minnesota State U., Mankato	2,170	575	154	1,147	0	184	110
St. Cloud State U.	2,379	577	429	725	403	245	0
U. Minnesota, Duluth	23,767	5,325	6,341	11,624	381	77	19
U. Minnesota, Morris	855	162	170	502	0	21	0
U. Minnesota, Twin Cities	1,072,961	570,946	69,842	309,620	44,460	45,879	32,214

TABLE 70

## Higher education R&amp;D expenditures, by state, institutional control, institution, and source of funds: FY 2021

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Private	13,231	3,754	76	6,392	1,690	904	415
C. of Saint Benedict	1,064 i	46 i	0 i	1,018 i	0 i	0 i	0 i
Carleton C.	3,800	1,499	6	1,948	0	229	118
Macalester C.	1,280	617	4	568	0	91	0
Saint John's U.	1,125 i	0 i	0 i	1,125 i	0 i	0 i	0 i
St. Olaf C.	816	271	0	520	0	25	0
U. of St. Thomas (MN)	5,146	1,321	66	1,213	1,690	559	297
Mississippi	491,172	261,723	108,616	100,139	7,300	11,316	2,078
Public	489,080	259,631	108,616	100,139	7,300	11,316	2,078
Alcorn State U.	14,188	7,593	4,457	2,103	6	29	0
Jackson State U.	16,157	14,038	0	1,426	198	473	22
Mississippi State U.	275,143	116,713	88,418	58,242	3,257	6,994	1,519
U. Mississippi	116,175	76,886	4,165	28,869	2,600	3,165	490
U. Southern Mississippi	67,417	44,401	11,576	9,499	1,239	655	47
Private	2,092	2,092	0	0	0	0	0
Tougaloo C.	2,092 i	2,092 i	0 i	0 i	0 i	0 i	0 i
Missouri	1,582,870	882,908	44,450	407,646	128,426	106,630	12,810
Public	509,338	231,307	42,431	193,083	19,174	13,004	10,339
Lincoln U., Jefferson City	7,621	5,621	2,000	NA	0	0	0
Missouri State U.	10,014	8,931	196	735	132	20	0
Missouri U. of Science and Technology	54,437	26,164	172	19,872	4,007	616	3,606
U. Missouri, Columbia	388,779	163,576	39,936	157,031	14,488	8,801	4,947
U. Missouri, Kansas City	33,855	21,203	122	9,896	451	763	1,420
U. Missouri, Saint Louis	14,632	5,812	5	5,549	96	2,804	366
Private	1,073,532	651,601	2,019	214,563	109,252	93,626	2,471
Saint Louis U.	79,005	41,411	548	24,824	3,614	8,537	71
U. of Health Sciences and Pharmacy in St. Louis	5,313	4,063	0	759	462	29	0
Washington U., Saint Louis	989,214	606,127	1,471	188,980	105,176	85,060	2,400
Montana	330,081	190,076	24,303	102,374	3,087	6,759	3,482
Public	330,081	190,076	24,303	102,374	3,087	6,759	3,482
Montana State U., Bozeman	193,577	113,257	17,738	52,653	2,084	4,742	3,103
Montana Technological U.	14,933	6,133	5,658	2,739	402	0	1
U. Montana, Missoula	121,571	70,686	907	46,982	601	2,017	378

TABLE 70

## Higher education R&amp;D expenditures, by state, institutional control, institution, and source of funds: FY 2021

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Nebraska	575,986	262,730	74,774	161,841	30,895	21,495	24,251
Public	551,559	253,111	70,427	154,599	29,417	20,938	23,067
U. Nebraska, central administration	21,295	20,675	250	0	50	250	70
U. Nebraska, Kearney	3,201	1,327	746	1,081	37	10	0
U. Nebraska, Lincoln	307,083	106,564	55,626	111,550	19,843	6,145	7,355
U. Nebraska, Medical Center	200,974	111,042	11,950	38,843	9,286	14,356	15,497
U. Nebraska, Omaha	19,006	13,503	1,855	3,125	201	177	145
Private	24,427	9,619	4,347	7,242	1,478	557	1,184
Creighton U.	23,251	8,585	4,347	7,115	1,478	542	1,184
Doane U.	1,176	1,034	0	127	0	15	0
Nevada	308,745	121,118	10,281	151,928	4,410	6,275	14,733
Public	302,760	121,065	10,281	146,153	4,345	6,274	14,642
Desert Research Institute	26,365	16,641	378	3,572	521	4,109	1,144
U. Nevada, Las Vegas	101,009	27,178	2,902	67,657	905	467	1,900
U. Nevada, Reno	175,386	77,246	7,001	74,924	2,919	1,698	11,598
Private	5,985	53	0	5,775	65	1	91
Roseman U. of Health Sciences	5,985	53	0	5,775	65	1	91
New Hampshire	498,518	252,552	8,993	191,319	12,593	23,171	9,890
Public	168,292	100,217	7,547	47,311	7,870	3,511	1,836
Keene State C.	919	894	0	25	0	0	0
U. New Hampshire	167,373	99,323	7,547	47,286	7,870	3,511	1,836
Private	330,226	152,335	1,446	144,008	4,723	19,660	8,054
Dartmouth C. and Dartmouth Hitchcock Medical Center	330,226	152,335	1,446	144,008	4,723	19,660	8,054
New Jersey	1,352,770	701,933	108,029	295,109	64,849	120,093	62,757
Public	897,949	460,624	103,351	202,138	43,126	60,736	27,974
C. New Jersey	1,912	1,079	56	327	57	393	0
Kean U.	3,538	362	318	2,783	70	5	0
Montclair State U.	17,390	4,146	543	10,479	41	2,163	18
New Jersey Institute of Technology	166,587	77,057	13,030	60,952	1,278	6,242	8,028
Rowan U.	26,458	17,400	4,442	2,700	677	1,239	0
Rutgers, State U. New Jersey, Camden	5,142	2,905	16	1,423	123	612	63
Rutgers, State U. New Jersey, New Brunswick	643,955	339,015	84,201	111,501	40,861	49,049	19,328
Rutgers, State U. New Jersey, Newark	23,854	16,281	573	5,723	8	879	390

TABLE 70

**Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Stockton U.	1,246	486	147	572	0	41	0
William Paterson U.	7,867	1,893	25	5,678	11	113	147
Private	454,821	241,309	4,678	92,971	21,723	59,357	34,783
Monmouth U.	1,667	174	778	75	25	601	14
Princeton U.	404,448	205,000	281	86,675	20,200	57,700	34,592
Seton Hall U.	5,320	2,137	1,977	730	95	381	0
Stevens Institute of Technology	43,386	33,998	1,642	5,491	1,403	675	177
New Mexico	473,020	332,896	31,084	77,661	8,051	16,305	7,023
Public	473,020	332,896	31,084	77,661	8,051	16,305	7,023
New Mexico Highlands U.	1,129	1,085	0	0	0	44	0
New Mexico Institute of Mining and Technology	28,745	24,900	631	1,654	1,236	191	133
New Mexico State U.	110,580	64,699	22,094	13,581	2,562	1,982	5,662
U. New Mexico	332,566	242,212	8,359	62,426	4,253	14,088	1,228
New York	7,577,235	4,065,091	425,225	1,744,191	498,361	541,516	302,851
Public	1,716,336	672,259	286,009	491,261	189,382	52,006	25,419
CUNY, Advanced Science Research Center	15,403	11,840	357	1,943	251	702	310
CUNY, Baruch C.	2,521	1,691	0	531	0	204	95
CUNY, Brooklyn C.	6,318	4,505	64	1,242	105	339	63
CUNY, C. Staten Island	2,860	2,234	165	277	0	76	108
CUNY, City C.	57,361	34,218	9,824	11,311	691	1,045	272
CUNY, Graduate Center	4,265	2,496	128	87	0	980	574
CUNY, Graduate School of Public Health and Health Policy	15,035	12,254	76	1,206	0	1,343	156
CUNY, Hunter C.	33,816	23,166	2,359	7,156	85	471	579
CUNY, John Jay C. of Criminal Justice	11,791	3,519	3,037	2,521	37	2,597	80
CUNY, Lehman C.	4,181	3,382	0	419	171	102	107
CUNY, New York City C. of Technology	1,367	1,197	0	129	31	0	10
CUNY, Queens C.	16,063	12,386	1,241	1,776	149	425	86
CUNY, system office	1,664	768	363	105	68	360	0
CUNY, York C.	1,133	922	0	168	0	43	0
SUNY, Binghamton U.	124,565	23,225	6,737	89,466	3,399	962	776
SUNY, Buffalo State	1,962	977	682	210	24	64	5
SUNY, C. Brockport	1,114	500	211	268	32	74	29
SUNY, C. of Environmental Science and Forestry	28,440	6,979	12,203	7,152	580	752	774

TABLE 70

**Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
SUNY, C. of Optometry	3,460	2,105	0	437	907	10	1
SUNY, C. Plattsburgh	1,280	824	61	358	0	32	5
SUNY, Downstate Health Sciences U.	34,459	27,620	23	5,397	354	950	115
SUNY, Geneseo	2,070	1,273	10	780	0	7	0
SUNY, Oswego	1,003	415	81	439	42	14	12
SUNY, Polytechnic Institute	465,273	25,427	206,962	77,753	150,915	456	3,760
SUNY, Stony Brook U.	274,516	162,972	10,323	84,647	5,135	9,416	2,023
SUNY, U. Albany	114,501	56,425	1,749	49,949	573	2,735	3,070
SUNY, U. Buffalo	425,349	210,257	27,020	132,361	21,474	24,932	9,305
SUNY, Upstate Medical U.	44,870	24,974	2,333	9,193	4,314	2,647	1,409
U.S. Military Academy	19,696	13,708	0	3,980	45	268	1,695
Private	5,860,899	3,392,832	139,216	1,252,930	308,979	489,510	277,432
Albany C. of Pharmacy and Health Sciences	3,687	1,900	0	963	715	109	0
Albany Medical C.	22,443	13,166	0	3,324	3,788	709	1,456
Albert Einstein C. of Medicine	301,715	214,619	1,764	67,563	4,184	13,585	0
Alfred U.	2,660	939	1,040	449	149	83	0
Barnard C.	4,632	3,527	0	718	22	365	0
Canisius C.	1,036	597	0	0	0	439	0
Clarkson U.	16,765	7,246	1,426	5,725	1,147	871	350
Cold Spring Harbor Laboratory	114,903	56,907	21	35,757	3,333	18,885	0
Colgate U.	3,306	1,440	0	1,515	75	261	15
Columbia U. in the City of New York	1,098,570	831,648	7,173	79,363	71,239	106,884	2,263
Cornell U.	1,183,524	592,359	87,821	220,800	43,950	115,910	122,684
Fordham U.	16,731	4,076	25	10,871	83	1,011	665
Hamilton C.	1,747	286	0	827	0	374	260
Hobart and William Smith Colleges	1,941	758	662	391	0	73	57
Hofstra U.	5,545	1,266	92	4,023	0	162	2
Icahn School of Medicine at Mount Sinai	820,260	554,582	5,500	137,874	59,235	48,289	14,780
Ithaca C.	1,030	685	51	224	5	35	30
Long Island U.	15,059	2,686	0	12,040	36	271	26
Manhattan C.	1,864	397	505	406	556	0	0
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	3,776	376	0	3,337	0	26	37

TABLE 70

**Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
New School	14,281	1,324	86	2,762	30	7,709	2,370
New York Institute of Technology	4,465	1,988	142	2,069	0	266	0
New York Medical C.	18,872	10,739	1,098	794	4,002	1,503	736
New York U.	1,063,704	547,027	13,191	243,805	51,800	90,401	117,480
Niagara U.	509	34	78	194	0	203	0
Pace U.	3,649	2,536	0	819	1	293	0
Pratt Institute	2,547	294	835	38	0	1,380	0
Rensselaer Polytechnic Institute	119,056	52,465	3,714	40,932	16,432	1,917	3,596
Rochester Institute of Technology	56,043	31,187	5,213	15,139	2,563	558	1,383
Rockefeller U.	357,543	96,318	656	218,134	3,210	38,301	924
Skidmore C.	2,335	1,739	0	245	0	351	0
St. John's U., New York	2,940	1,950	0	254	200	393	143
Syracuse U.	151,717	34,200	4,328	96,162	6,481	10,501	45
Teachers C., Columbia U.	24,335	8,521	700	NA	1,700	10,914	2,500
U. Rochester	409,255	309,647	3,074	41,775	34,036	15,949	4,774
Union C., Schenectady	1,396	976	0	340	7	64	9
Vassar C.	1,606	918	21	455	0	209	3
Yeshiva U.	5,452	1,509	0	2,843	0	256	844
North Carolina	3,503,943	2,088,400	175,440	674,614	310,840	208,306	46,343
Public	1,995,082	1,119,227	161,938	495,188	107,499	92,762	18,468
Appalachian State U.	4,509	1,694	229	2,106	365	115	0
East Carolina U.	51,662	22,813	787	21,450	4,387	1,858	367
Elizabeth City State U.	1,717	1,603	52	NA	62	0	0
Fayetteville State U.	3,933	1,988	519	1,238	128	60	0
North Carolina Agricultural and Technical State U.	40,751	25,755	542	14,005	149	257	43
North Carolina Central U.	14,105	10,676	976	NA	503	844	1,106
North Carolina State U.	547,118	239,115	127,290	126,142	49,478	4,806	287
U. North Carolina, Asheville	4,844	2,322	346	440	30	1,706	0
U. North Carolina, Chapel Hill	1,205,883	747,895	9,550	304,506	48,938	79,885	15,109
U. North Carolina, Charlotte	51,877	27,145	9,921	11,654	2,349	753	55
U. North Carolina, general administration	4,024	408	3,616	0	0	0	0
U. North Carolina, Greensboro	37,033	24,423	363	10,842	106	401	898
U. North Carolina, Wilmington	16,656	6,852	5,748	2,150	867	951	88



TABLE 70

## Higher education R&amp;D expenditures, by state, institutional control, institution, and source of funds: FY 2021

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Western Carolina U.	2,847	1,697	309	655	137	49	0
Winston-Salem State U.	8,123	4,841	1,690	NA	0	1,077	515
Private	1,508,861	969,173	13,502	179,426	203,341	115,544	27,875
Davidson C.	2,466	1,151	7	771	24	421	92
Duke U.	1,237,686	776,632	1,073	153,692	187,864	98,223	20,202
Elon U.	2,032	138	0	1,883	0	11	0
Johnson C. Smith U.	2,461	2,365	52	0	4	40	0
Wake Forest U.	264,216	188,887	12,370	23,080	15,449	16,849	7,581
North Dakota	307,556	101,287	78,537	110,245	9,702	1,276	6,509
Public	307,556	101,287	78,537	110,245	9,702	1,276	6,509
North Dakota State U.	164,050	42,824	43,787	69,112	1,508	536	6,283
U. North Dakota	143,506	58,463	34,750	41,133	8,194	740	226
Ohio	2,787,835	1,594,939	70,829	765,814	192,581	121,836	41,836
Public	2,171,167	1,071,943	64,755	711,854	182,202	101,644	38,769
Air Force Institute of Technology	45,703	27,025	0	18,015	663	0	0
Bowling Green State U.	18,619	7,263	1,333	9,178	84	754	7
Central State U.	8,751	4,165	2,866	1,720	0	0	0
Cleveland State U.	71,451	47,402	1,458	16,391	1,755	4,303	142
Kent State U.	50,408	15,179	1,379	31,409	573	1,700	168
Miami U.	25,138	9,412	1,610	12,023	1,249	508	336
Northeast Ohio Medical U.	13,853	9,999	14	3,182	0	658	0
Ohio State U.	1,236,111	559,797	45,862	425,597	129,914	50,022	24,919
Ohio U.	49,764	19,164	883	24,765	3,433	1,040	479
U. Akron	17,340	9,024	442	4,217	2,093	653	911
U. Cincinnati	551,826	309,097	7,234	145,772	39,228	38,816	11,679
U. Toledo	53,169	32,601	884	14,308	2,718	2,592	66
Wright State U.	26,259	19,617	584	4,999	415	582	62
Youngstown State U.	2,775	2,198	206	278	77	16	0
Private	616,668	522,996	6,074	53,960	10,379	20,192	3,067
C. Wooster	1,071	300	0	683	0	88	0
Case Western Reserve U.	421,868	340,438	4,557	50,526	4,035	19,766	2,546
Heidelberg U.	1,725	308	1,092	303	0	22	0
Oberlin C.	776	505	0	160	67	44	0

TABLE 70

## Higher education R&amp;D expenditures, by state, institutional control, institution, and source of funds: FY 2021

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U. Dayton	191,228	181,445	425	2,288	6,277	272	521
Oklahoma	622,581	255,119	61,088	252,029	37,287	12,875	4,183
Public	606,132	249,243	60,727	249,575	29,890	12,555	4,142
Langston U.	6,345	3,089	2	2,645	609	0	0
Oklahoma State U., Center for Health Sciences	7,758	2,304	127	5,241	56	30	0
Oklahoma State U., Stillwater	198,799	47,428	21,258	117,732	9,786	2,322	273
U. Central Oklahoma	5,997 i	1,516 i	644 i	3,761 i	73 i	3 i	0 i
U. Oklahoma, Norman and Health Science Center	380,048	193,639	38,203	116,014	19,294	9,504	3,394
U. Oklahoma, Tulsa	7,185	1,267	493	4,182	72	696	475
Private	16,449	5,876	361	2,454	7,397	320	41
U. Tulsa	16,449	5,876	361	2,454	7,397	320	41
Oregon	929,355	626,641	57,459	129,056	50,292	48,919	16,988
Public	914,585	620,532	57,125	122,519	50,060	47,472	16,877
Oregon Health and Science U.	452,812	329,016	1,007	44,030	40,991	37,168	600
Oregon Institute of Technology	4,314	252	3,792	NA	94	176	0
Oregon State U.	276,955	179,180	47,981	25,573	6,517	2,956	14,748
Portland State U.	41,311	29,842	3,576	4,722	847	1,724	600
U. Oregon	139,193	82,242	769	48,194	1,611	5,448	929
Private	14,770	6,109	334	6,537	232	1,447	111
Lewis and Clark C.	2,281	702	0	1,319	0	260	0
National U. of Natural Medicine	850	523	0	195	132	0	0
Pacific U.	4,690	2,072	269	1,480	100	769	0
Reed C.	5,132 i	1,916 i	32 i	2,782 i	0 i	291 i	111 i
Willamette U.	1,817	896	33	761	0	127	0
Pennsylvania	4,934,724	2,794,237	104,849	1,327,092	341,497	260,399	106,650
Public	2,429,460	1,511,516	66,518	570,782	90,306	111,786	78,552
Indiana U. Pennsylvania	6,180	1,503	331	3,718	7	607	14
Pennsylvania State U., Behrend	5,509	2,286	428	1,157	494	1,142	2
Pennsylvania State U., Harrisburg	2,938	1,616	340	525	191	211	55
Pennsylvania State U., University Park and Hershey Medical Center	970,544	622,532	46,993	216,134	33,787	26,230	24,868
Temple U.	299,778	153,316	8,876	90,467	22,560	18,260	6,299
U. Pittsburgh, Pittsburgh	1,135,416	724,993	9,484	255,241	33,240	65,217	47,241
U.S. Army War C.	4,662 i	4,662 i	0 i	0 i	0 i	0 i	0 i

TABLE 70

**Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
West Chester U. Pennsylvania	4,433	608	66	3,540	27	119	73
Private	2,505,264	1,282,721	38,331	756,310	251,191	148,613	28,098
Arcadia U.	889	371	289	0	0	229	0
Bryn Mawr C.	8,987	1,429	0	7,285	18	255	0
Bucknell U.	4,476	1,696	0	1,439	311	203	827
Carnegie Mellon U.	402,376	234,993	3,675	114,892	34,473	10,503	3,840
Drexel U.	152,752	93,517	4,601	36,063	3,196	8,682	6,693
Duquesne U.	10,521	5,020	1,138	2,788	146	1,429	0
Franklin and Marshall C.	3,722	1,363	209	1,622	279	61	188
Haverford C.	3,835	2,455	0	631	0	308	441
Lafayette C.	1,015	508	4	417	0	75	11
Lehigh U.	41,279	29,051	2,243	8,806	531	613	35
Mercyhurst U.	1,937	745	584	608	0	0	0
Philadelphia C. of Osteopathic Medicine	6,186	318	55	2,837	1,220	1,756	0
Saint Joseph's U.	2,922	1,158	673	872	134	85	0
Swarthmore C.	3,296	1,414	0	1,571	1	310	0
Thomas Jefferson U.	200,393	109,448	2,542	47,728	18,591	10,704	11,380
U. of the Sciences Philadelphia	4,005	1,320	213	1,170	1,155	147	0
U. Pennsylvania	1,631,950	792,089	20,733	511,958	190,755	111,885	4,530
Villanova U.	24,723	5,826	1,372	15,623	381	1,368	153
Rhode Island	425,750	289,959	13,494	88,443	7,211	22,147	4,496
Public	145,828	89,359	13,391	37,316	2,060	2,473	1,229
Naval War C.	5,542	5,542	0	0	0	0	0
Rhode Island C.	10,990	4,894	5,593	64	0	439	0
U. Rhode Island	129,296	78,923	7,798	37,252	2,060	2,034	1,229
Private	279,922	200,600	103	51,127	5,151	19,674	3,267
Brown U.	276,331	198,574	28	50,127	4,925	19,410	3,267
Providence C.	766	574	0	124	0	68	0
Rhode Island School of Design	971	250	41	416	215	49	0
Roger Williams U.	1,854	1,202	34	460	11	147	0
South Carolina	753,287	365,603	37,853	271,701	41,814	24,457	11,859
Public	749,841	363,570	37,851	270,442	41,799	24,370	11,809
C. Charleston	6,361	4,126	304	1,458	0	377	96

TABLE 70

**Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Citadel Military C. South Carolina	2,054	1,714	53	174	80	27	6
Clemson U.	237,485	89,883	25,748	98,955	16,178	6,562	159
Coastal Carolina U.	2,245	948	864	391	0	42	0
Medical U. South Carolina	277,761	162,394	4,423	72,286	22,129	8,899	7,630
South Carolina State U.	3,933 i	3,933 i	NA	NA	NA	NA	NA
U. South Carolina, Aiken	2,042	1,884	0	154	0	4	0
U. South Carolina, Columbia	215,374	97,193	6,108	96,392	3,409	8,354	3,918
Winthrop U.	2,586	1,495	351	632	3	105	0
Private	3,446	2,033	2	1,259	15	87	50
Clafin U.	1,015	1,005	0	0	0	10	0
Furman U.	2,431	1,028	2	1,259	15	77	50
South Dakota	100,534	46,598	19,124	19,958	2,074	3,368	9,412
Public	99,521	45,585	19,124	19,958	2,074	3,368	9,412
Black Hills State U.	1,280	1,124	76	80	0	0	0
Dakota State U.	3,416	2,603	218	376	201	0	18
South Dakota School of Mines and Technology	15,746	11,587	1,345	1,944	569	76	225
South Dakota State U.	51,542	18,607	15,713	3,929	1,304	2,820	9,169
U. South Dakota	27,537	11,664	1,772	13,629	0	472	0
Private	1,013	1,013	0	0	0	0	0
Augustana U.	1,013	1,013	0	0	0	0	0
Tennessee	1,629,860	863,242	35,425	567,114	93,741	55,972	14,366
Public	590,106	258,416	32,504	252,739	12,358	22,523	11,566
Austin Peay State U.	2,740	597	1,263	859	0	12	9
East Tennessee State U.	18,449	8,358	20	4,902	134	4,785	250
Middle Tennessee State U.	22,531	4,150	480	16,884	259	758	0
Tennessee State U.	26,880 i	20,378 i	455 i	5,986 i	43 i	18 i	0 i
Tennessee Technological U.	15,387	7,625	4,363	3,008	111	76	204
U. Memphis	67,092	21,578	7,208	34,139	814	3,142	211
U. Tennessee, Chattanooga	11,192	4,507	705	5,296	65	223	396
U. Tennessee, Health Science Center	109,562	56,021	5,433	30,132	3,708	7,514	6,754
U. Tennessee, Knoxville	316,273	135,202	12,577	151,533	7,224	5,995	3,742
Private	1,039,754	604,826	2,921	314,375	81,383	33,449	2,800
Fisk U.	4,320	3,940	24	0	0	356	0

TABLE 70

**Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Lipscomb U.	321	222	0	0	22	77	0
Meharry Medical C.	15,840	13,784	0	565	1	1,490	0
Vanderbilt U. and Vanderbilt U. Medical Center	1,019,273	586,880	2,897	313,810	81,360	31,526	2,800
Texas	6,849,522	2,872,275	929,845	1,872,830	478,394	417,527	278,651
Public	5,800,026	2,367,215	883,828	1,514,568	431,299	330,692	272,424
Lamar U.	4,734	1,873	2,047	65	145	500	104
Prairie View A&M U.	17,582	9,566	4,041	3,421	115	439	0
Sam Houston State U.	13,315	5,632	232	6,985	29	416	21
Stephen F. Austin State U.	3,204	1,029	1,323	543	13	164	132
Sul Ross State U.	2,143	505	130	123	26	810	549
Tarleton State U.	17,729	4,620	3,749	8,949	263	148	0
Texas A&M International U.	3,740	1,243	797	965	85	628	22
Texas A&M U., College Station and Health Science Center	1,147,720	528,057	198,483	313,192	32,978	45,135	29,875
Texas A&M U.-Commerce	3,827	1,283	76	2,300	8	141	19
Texas A&M U.-Corpus Christi	30,500	10,967	9,110	4,589	603	2,642	2,589
Texas A&M U.-Kingsville	23,578	9,265	4,652	3,614	353	5,468	226
Texas Southern U.	9,128	5,562	760	2,692	0	114	0
Texas State U.	72,510	31,116	3,949	31,792	765	4,888	0
Texas Tech U.	197,739	33,938	27,357	108,999	12,221	14,929	295
Texas Tech U., Health Sciences Center	41,583	12,148	16,670	8,153	342	1,268	3,002
Texas Tech U., Health Sciences Center, El Paso	11,360	1,831	2,829	6,064	395	241	0
Texas Woman's U.	4,943	1,514	1,853	893	75	608	0
U. Houston	202,536	77,489	35,530	71,291	7,745	7,309	3,172
U. Houston-Clear Lake	1,716	865	620	80	107	44	0
U. Houston-Downtown	1,828	1,169	72	215	0	372	0
U. North Texas, Denton	81,252	18,702	5,567	53,591	1,992	1,329	71
U. North Texas, Health Science Center	50,698	32,464	9,224	6,615	1,633	626	136
U. Texas Health Science Center, Houston	308,823	165,139	42,636	47,653	16,305	24,200	12,890
U. Texas Health Science Center, San Antonio	219,734	106,824	25,110	51,848	10,085	25,548	319
U. Texas Health Science Center, Tyler	27,928	12,007	6,884	3,545	111	5,381	0
U. Texas M. D. Anderson Cancer Center	1,124,971	217,073	293,325	233,279	211,849	32,741	136,704
U. Texas Medical Branch	185,759	117,915	7,739	39,565	8,424	12,116	0
U. Texas of the Permian Basin	3,504	1,762	460	522	54	706	0

TABLE 70

**Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U. Texas Rio Grande Valley	58,187	13,018	6,945	29,053	265	8,701	205
U. Texas Southwestern Medical Center	632,134	257,611	68,114	151,111	38,886	52,491	63,921
U. Texas, Arlington	126,477	46,946	19,262	49,685	3,006	6,131	1,447
U. Texas, Austin	779,348	489,827	30,336	139,669	68,580	43,258	7,678
U. Texas, Dallas	122,825	58,249	11,065	29,308	6,581	17,622	0
U. Texas, El Paso	109,410	43,930	19,841	34,866	994	3,441	6,338
U. Texas, San Antonio	145,362	42,952	17,629	67,130	5,196	9,854	2,601
U. Texas, Tyler	2,279	929	153	649	238	252	58
West Texas A&M U.	9,920	2,195	5,258	1,554	832	31	50
Private	1,049,496	505,060	46,017	358,262	47,095	86,835	6,227
Abilene Christian U.	4,597	827	0	199	3,546	25	0
Baylor C. of Medicine	716,976	365,472	34,447	239,079	29,465	48,513	0
Baylor U.	48,809	11,025	1,892	26,678	3,116	4,510	1,588
Rice U.	207,404	95,648	7,372	62,352	7,123	30,638	4,271
Southern Methodist U.	41,960	17,886	1,039	18,643	2,072	2,144	176
St. Edward's U.	9,527	7,600	800	1,030	15	31	51
Texas Christian U.	15,336	4,448	438	8,684	1,670	23	73
Trinity U.	2,905	1,078	29	812	5	913	68
U. of the Incarnate Word	1,982	1,076	0	785	83	38	0
Utah	993,876	635,448	28,336	235,145	49,350	35,671	9,926
Public	949,960	605,009	27,119	228,631	45,758	33,899	9,544
U. Utah	624,737	340,434	4,638	203,839	38,783	33,417	3,626
Utah State U.	325,223	264,575	22,481	24,792	6,975	482	5,918
Private	43,916	30,439	1,217	6,514	3,592	1,772	382
Brigham Young U., Provo	43,916	30,439	1,217	6,514	3,592	1,772	382
Vermont	198,247	106,193	727	74,424	1,989	9,062	5,852
Public	195,320	103,554	727	74,407	1,989	8,801	5,842
U. Vermont	195,320	103,554	727	74,407	1,989	8,801	5,842
Private	2,927	2,639	0	17	0	261	10
Middlebury C.	2,927	2,639	0	17	0	261	10
Virginia	1,942,260	877,464	130,517	680,754	83,342	95,144	75,039
Public	1,918,424	863,419	130,317	671,917	83,243	94,489	75,039
Christopher Newport U.	2,656	1,497	2	919	89	149	0

TABLE 70

**Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Eastern Virginia Medical School	19,415	14,774	176	2,384	1,298	783	0
George Mason U.	214,207	103,712	3,387	65,041	5,910	30,643	5,514
James Madison U.	14,687	2,379	349	11,111	330	507	11
Norfolk State U.	4,316	3,976	0	0	52	35	253
Old Dominion U.	62,332	25,514	17,685	14,098	918	3,565	552
U. of Mary Washington	1,123	485	100	480	2	25	31
U. Virginia's C. Wise	3,310	1,307	1,267	718	0	9	9
U. Virginia, Charlottesville	611,313	297,273	8,714	181,375	28,643	34,515	60,793
Virginia Commonwealth U.	364,096	160,995	31,893	144,356	12,494	14,358	0
Virginia Polytechnic Institute and State U.	542,045	216,733	60,571	220,645	32,964	5,050	6,082
Virginia State U.	10,123	4,846	2,278	2,602	0	397	0
William & Mary	68,801	29,928	3,895	28,188	543	4,453	1,794
Private	23,836	14,045	200	8,837	99	655	0
Edward Via C. of Osteopathic Medicine	6,629	537	0	5,879	31	182	0
Hampton U.	11,669	11,517	0	152	0	0	0
Liberty U.	937	120	75	657	68	17	0
Marymount U.	2,307	337	125	1,779	0	66	0
U. Richmond	2,294	1,534	0	370	0	390	0
Washington	1,881,044	1,242,894	72,940	220,094	64,860	230,176	50,080
Public	1,879,482	1,241,792	72,886	219,965	64,860	229,906	50,073
Central Washington U.	2,410	1,778	185	346	55	46	0
Eastern Washington U.	1,921	775	965	NA	20	109	52
Northwest Indian C.	2,806 i	2,621 i	0 i	32 i	0 i	153 i	0 i
U. Washington, Bothell	8,311	2,956	86	814	0	4,386	69
U. Washington, Seattle	1,488,645	1,046,377	21,877	105,070	54,751	212,584	47,986
U. Washington, Tacoma	4,291	3,459	349	234	0	99	150
Washington State U.	357,648	179,536	48,317	106,804	9,897	11,326	1,768
Western Washington U.	13,450	4,290	1,107	6,665	137	1,203	48
Private	1,562	1,102	54	129	0	270	7
Seattle U.	1,562	1,102	54	129	0	270	7
West Virginia	231,347	107,198	12,630	82,686	4,731	6,863	17,239
Public	231,347	107,198	12,630	82,686	4,731	6,863	17,239
Marshall U.	23,620	12,854	1,040	8,589	226	911	0

TABLE 70

**Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
West Virginia School of Osteopathic Medicine	1,255	423	31	801	0	0	0
West Virginia State U.	6,565	4,119	1,566	877	0	3	0
West Virginia U.	199,907	89,802	9,993	72,419	4,505	5,949	17,239
Wisconsin	1,771,499	830,859	156,597	529,125	60,477	147,255	47,186
Public	1,453,273	679,108	155,553	428,439	34,035	119,252	36,886
U. Wisconsin-Eau Claire	1,852	909	410	308	83	139	3
U. Wisconsin-Green Bay	1,879	876	441	454	25	83	0
U. Wisconsin-La Crosse	3,001	895	862	807	365	63	9
U. Wisconsin-Madison	1,380,075	646,764	135,923	412,540	31,502	117,817	35,529
U. Wisconsin-Milwaukee	55,664	24,397	15,783	11,939	1,596	924	1,025
U. Wisconsin-Oshkosh	1,656	1,083	94	415	31	33	0
U. Wisconsin-Platteville	1,144	353	294	194	264	30	9
U. Wisconsin-River Falls	999	212	588	3	141	0	55
U. Wisconsin-Stevens Point	4,401	1,776	1,010	1,289	12	121	193
U. Wisconsin-Superior	2,602	1,843	148	490	16	42	63
Private	318,226	151,751	1,044	100,686	26,442	28,003	10,300
Marquette U.	37,087	13,918	365	14,809	947	2,042	5,006
Medical C. Wisconsin	276,850	136,385	640	85,666	23,118	25,747	5,294
Milwaukee School of Engineering	3,193	751	10	54	2,377	1	0
Northland C.	1,096	697	29	157	0	213	0
Wyoming	93,202	54,444	4,681	26,166	6,088	1,756	67
Public	93,202	54,444	4,681	26,166	6,088	1,756	67
U. Wyoming	93,202	54,444	4,681	26,166	6,088	1,756	67
American Samoa	815	815	0	0	0	0	0
Public	815	815	0	0	0	0	0
American Samoa Community C.	815	815	0	0	0	0	0
Guam	17,666	14,316	1,705	1,465	24	156	0
Public	17,666	14,316	1,705	1,465	24	156	0
U. Guam	17,666	14,316	1,705	1,465	24	156	0
Puerto Rico	123,707	85,484	3,055	29,659	4,600	650	259
Public	94,577	63,782	2,021	25,217	2,917	477	163
U. Puerto Rico, Cayey	1,881	1,202	0	539	11	129	0
U. Puerto Rico, Humacao	1,321	1,137	0	184	0	0	0



TABLE 70

**Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U. Puerto Rico, Mayaguez	18,368	13,073	33	5,148	37	0	77
U. Puerto Rico, Medical Sciences Campus	44,111	33,262	1,838	6,320	2,688	0	3
U. Puerto Rico, Rio Piedras	28,896	15,108	150	13,026	181	348	83
Private	29,130	21,702	1,034	4,442	1,683	173	96
Albizu U.	428	0	126	272	0	0	30
Ponce Health Sciences U.	23,297	18,284	685	2,472	1,683	173	0
U. Ana G. Mendez, Gurabo	1,574	926	0	648	0	0	0
U. Central del Caribe	3,831	2,492	223	1,050	0	0	66
Virgin Islands	15,231	13,099	1,818	17	142	155	0
Public	15,231	13,099	1,818	17	142	155	0
U. of the Virgin Islands	15,231	13,099	1,818	17	142	155	0

i = imputed. NA = not available; data were not provided by institution.

<sup>a</sup> The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

<sup>b</sup> The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

<sup>c</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

<sup>d</sup> Johns Hopkins University includes the Applied Physics Laboratory, with \$1,949,752 thousand in total R&D expenditures in FY 2021.

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2021.

TABLE 71

**Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
United States	89,723,447	2,951,923	3,295,883	52,364,596	772,935	5,740,630	1,326,030	2,842,033	1,022,500	14,293,487	5,113,430
Public	58,667,378	1,745,125	2,603,049	32,705,100	456,440	3,554,573	990,639	1,910,306	825,708	10,119,360	3,757,078
Private	31,056,069	1,206,798	692,834	19,659,496	316,495	2,186,057	335,391	931,727	196,792	4,174,127	1,356,352
Alabama	1,272,489	72,739	31,203	747,632	7,120	50,685	15,182	23,557	2,093	237,714	84,564
Public	1,251,134	72,276	31,203	739,496	5,974	50,516	15,182	17,729	2,008	232,186	84,564
Alabama A&M U.	9,065 i	307 i	0 i	5,357 i	74 i	627 i	171 i	283 i	0 i	1,714 i	532 i
Alabama State U.	2,631	0	0	2,265	0	0	0	0	0	366	0
Auburn U., Auburn	266,374	5,127	4,008	111,491	3,471	15,214	3,137	6,228	1,998	78,720	36,980
Jacksonville State U.	275	0	0	61	0	0	0	0	0	6	208
Troy U.	1,548	0	31	250	0	1,102	1	10	0	0	154
U. Alabama, Birmingham	644,330	1,356	436	571,525	383	9,885	5,695	317	10	46,844	7,879
U. Alabama, Huntsville	149,792	48,967	17,960	2,620	709	15,071	233	820	0	55,510	7,902
U. Alabama, Tuscaloosa	129,509	12,797	4,302	14,565	1,174	7,991	5,384	9,556	0	43,941	29,799
U. South Alabama	47,610	3,722	4,466	31,362	163	626	561	515	0	5,085	1,110
Private	21,355	463	0	8,136	1,146	169	0	5,828	85	5,528	0
Tuskegee U.	21,355	463	0	8,136	1,146	169	0	5,828	85	5,528	0
Alaska	196,501	1,282	102,679	46,675	191	17,668	277	4,277	1,682	18,992	2,778
Public	195,465	1,282	101,674	46,646	191	17,668	277	4,277	1,682	18,992	2,776
U. Alaska, Anchorage	21,332	166	5,735	8,381	0	1,160	277	3,020	177	1,674	742
U. Alaska, Fairbanks	172,957	1,116	95,711	37,477	191	16,441	0	1,248	1,425	17,314	2,034
U. Alaska, Southeast	1,176	0	228	788	0	67	0	9	80	4	0
Private	1,036	0	1,005	29	0	0	0	0	0	0	2
Alaska Pacific U.	1,036	0	1,005	29	0	0	0	0	0	0	2
Arizona	1,516,463	43,038	106,994	600,456	7,468	175,517	19,274	92,000	135,609	224,229	111,878
Public	1,516,463	43,038	106,994	600,456	7,468	175,517	19,274	92,000	135,609	224,229	111,878
Arizona State U.	677,303	22,498	68,116	111,790	4,121	26,742	14,623	73,205	128,982	145,574	81,652
Northern Arizona U.	69,129	4,037	6,790	41,082	0	8,120	396	167	469	6,497	1,571
U. Arizona	770,031	16,503	32,088	447,584	3,347	140,655	4,255	18,628	6,158	72,158	28,655
Arkansas	387,674	9,903	5,708	290,258	101	11,204	1,143	4,574	1,006	39,011	24,766
Public	387,674	9,903	5,708	290,258	101	11,204	1,143	4,574	1,006	39,011	24,766
Arkansas State U., Jonesboro	8,422	239	0	6,436	3	665	62	267	323	384	43

TABLE 71

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2021

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Arkansas for Medical Sciences	194,709	0	0	194,709	0	0	0	0	0	0	0
U. Arkansas, Fayetteville	164,443	5,882	5,686	79,509	60	8,111	994	4,212	0	37,818	22,171
U. Arkansas, Little Rock	7,397	3,312	0	1,997	0	685	0	93	0	809	501
U. Arkansas, Pine Bluff	8,713	0	0	6,852	3	1,175	0	0	683	0	0
U. Central Arkansas	3,990	470	22	755	35	568	87	2	0	0	2,051
California	11,229,857	298,109	481,349	7,138,953	70,097	947,704	154,974	353,563	169,001	1,171,790	444,317
Public	7,945,304	143,466	399,800	4,993,881	59,882	609,331	122,808	241,527	168,102	901,306	305,201
California Polytechnic State U., San Luis Obispo	25,953	679	1,106	6,526	2,668	4,953	157	930	0	5,522	3,412
California State Polytechnic U., Pomona	7,011	360	151	3,557	20	1,150	19	9	96	1,516	133
California State U., Bakersfield	6,253	0	134	197	2,321	447	524	146	0	839	1,645
California State U., Channel Islands	2,341	22	0	1,001	348	301	4	22	485	79	79
California State U., Chico	4,209	0	426	1,522	41	172	0	237	0	1,236	575
California State U., Dominguez Hills	2,690	620	8	140	125	418	360	314	0	0	705
California State U., East Bay	20,108	264	1,493	1,762	482	2,441	465	3,331	29	1,024	8,817
California State U., Fresno	9,213	141	379	4,197	490	1,307	116	165	199	1,290	929
California State U., Fullerton	9,006	200	229	2,507	212	1,343	272	342	597	661	2,643
California State U., Long Beach	15,134	271	226	3,700	446	2,723	1,431	645	194	4,574	924
California State U., Los Angeles	9,382	218	23	740	26	5,165	103	1,131	0	1,486	490
California State U., Maritime Academy	2,799	0	0	0	0	0	0	0	0	2,603	196
California State U., Monterey Bay	6,882	1,298	1,953	3,452	12	57	0	47	25	0	38
California State U., Northridge	16,573	380	731	4,020	685	7,447	255	393	93	1,216	1,353

TABLE 71

**Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
California State U., Sacramento	23,699	340	752	1,446	116	238	330	6,544	4,320	5,986	3,627
California State U., San Bernardino	11,607	228	51	1,016	466	1,992	2,299	208	357	1,382	3,608
California State U., San Marcos	10,213	620	13	1,120	0	1,063	1,150	680	2,892	1,682	993
California State U., Stanislaus	2,085	186	13	1,232	253	84	218	70	0	0	29
Humboldt State U.	14,103	85	1,141	5,303	8	90	4	1,385	69	5,564	454
Naval Postgraduate School	65,101	6,058	6,591	1,537	2,435	5,927	151	6,669	4,618	24,254	6,861
San Diego State U.	107,681	1,439	2,158	31,479	3,883	6,681	18,729	4,876	6,322	10,715	21,399
San Francisco State U.	35,768	1,579	3,975	13,143	1,326	3,418	1,617	3,892	1,546	2,386	2,886
San Jose State U.	60,100	297	14,857	3,655	751	3,437	18,930	2,940	0	3,664	11,569
Sonoma State U.	2,957	12	1,617	585	235	289	58	51	30	1	79
U. California, Berkeley	846,872	9,583	7,857	264,394	8,067	156,896	16,892	56,908	74,539	199,711	52,025
U. California, Davis	817,409	5,934	30,603	590,027	4,698	27,906	3,177	30,951	9,720	102,370	12,023
U. California, Irvine	523,752	23,444	13,034	315,900	6,314	38,794	10,898	12,606	1,036	65,454	36,272
U. California, Los Angeles	1,454,880	16,186	41,818	1,053,540	12,110	56,624	17,464	62,413	42,390	93,906	58,429
U. California, Merced	45,964	1,134	3,849	9,742	2,139	5,753	424	1,816	1,156	13,854	6,097
U. California, Office of the President	50,848	0	0	42,520	0	7,905	0	0	37	0	386
U. California, Riverside	189,600	8,295	10,303	98,539	1,994	17,559	3,791	5,224	2,821	34,888	6,186
U. California, San Diego	1,425,499	46,962	185,870	827,370	5,639	86,893	18,645	22,940	13,214	177,564	40,402
U. California, San Francisco	1,710,036	0	0	1,639,862	0	69,817	0	0	357	0	0
U. California, Santa Barbara	248,961	11,503	37,222	29,848	1,416	54,435	3,457	8,231	385	86,303	16,161
U. California, Santa Cruz	160,615	5,128	31,217	28,302	156	35,606	868	5,411	575	49,576	3,776
Private	3,284,553	154,643	81,549	2,145,072	10,215	338,373	32,166	112,036	899	270,484	139,116
Azusa Pacific U.	5,318	92	0	1,022	125	207	844	171	0	5	2,852
Biola U.	1,243	48	0	811	13	85	13	40	8	167	58
California Institute of Technology	438,624	13,508	43,295	100,754	1,039	212,265	0	0	0	51,630	16,133

TABLE 71

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2021

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Chapman U.	25,820	701	304	9,497	16	1,314	1,161	3,253	0	348	9,226
Charles R. Drew U. of Medicine and Science	13,228	0	0	13,228	0	0	0	0	0	0	0
Claremont Graduate U.	7,235	55	0	0	111	0	300	2,815	0	0	3,954
Claremont McKenna C.	4,515	0	17	274	103	136	113	3,532	29	0	311
Fielding Graduate U.	843	0	0	0	0	0	0	843	0	0	0
Harvey Mudd C.	2,359	645	0	364	111	531	0	0	162	515	31
High Tech High Graduate School of Ed.	5,032	0	0	0	0	0	0	0	0	0	5,032
Keck Graduate Institute	2,254	0	0	1,765	0	0	0	0	0	356	133
La Sierra U.	1,517	0	0	5	0	1	0	0	0	0	1,511
Loma Linda U.	14,029	0	0	13,191	0	0	597	0	0	0	241
Loyola Marymount U.	12,819	58	527	819	134	269	1,604	1,724	67	234	7,383
Marshall B. Ketchum U.	1,351	0	0	1,351	0	0	0	0	0	0	0
Mills C.	850	0	0	129	38	0	0	0	0	0	683
Occidental C.	3,587	280	1,201	503	97	762	393	287	0	0	64
Pepperdine U.	2,655	0	0	564	26	111	248	503	112	0	1,091
Pomona C.	2,146	272	193	288	162	347	286	330	0	0	268
Santa Clara U.	3,142	0	0	545	39	516	0	102	0	1,588	352
Scripps Research Institute	485,435	0	0	485,435	0	0	0	0	0	0	0
Stanford U.	1,274,483	23,232	21,216	905,150	6,070	98,672	16,587	22,559	272	136,251	44,474
Touro U.	3,489	0	0	3,475	0	0	0	0	0	0	14
U. of the Pacific	1,371	0	43	870	0	223	6	0	0	228	1
U. San Diego	7,580	42	226	111	643	1,377	149	209	37	980	3,806
U. San Francisco	1,375	16	204	398	16	144	28	148	50	3	368
U. Southern California	955,565	115,694	14,323	598,925	1,472	21,413	9,837	75,520	162	78,179	40,040
Western U. of Health Sciences	6,688	0	0	5,598	0	0	0	0	0	0	1,090
Colorado	1,746,975	26,785	185,787	918,910	7,897	154,232	25,613	30,311	8,312	312,401	76,727
Public	1,702,757	26,763	185,621	913,303	7,799	150,101	18,931	28,516	8,312	308,843	54,568
Colorado School of Mines	81,443	3,894	5,713	3,081	682	10,812	0	1,220	0	54,062	1,979
Colorado State U., Fort Collins	447,197	3,621	60,073	288,731	2,980	12,947	3,755	11,988	6,461	41,575	15,066

TABLE 71

**Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Colorado State U., Pueblo	2,990	190	0	1,845	19	8	27	6	0	64	831
Fort Lewis C.	1,926	0	46	416	4	835	0	0	0	605	20
U. Colorado Anschutz Medical Campus <sup>a</sup>	562,855	0	212	559,348	0	391	20	352	0	1,204	1,328
U. Colorado Boulder	547,724	16,468	118,876	53,211	2,857	120,677	13,610	14,018	1,724	177,604	28,679
U. Colorado Colorado Springs	5,338	1,965	141	755	0	310	259	36	127	902	843
U. Colorado Denver <sup>a</sup>	18,039	475	379	4,284	1,122	1,574	1,179	359	0	3,695	4,972
U. Northern Colorado	3,159	0	147	1,263	135	149	81	534	0	0	850
U.S. Air Force Academy	32,086	150	34	369	0	2,398	0	3	0	29,132	0
Private	44,218	22	166	5,607	98	4,131	6,682	1,795	0	3,558	22,159
Colorado C.	5,467	0	114	260	18	154	23	117	0	0	4,781
U. Denver	38,751	22	52	5,347	80	3,977	6,659	1,678	0	3,558	17,378
Connecticut	1,494,357	14,669	18,609	1,192,006	6,651	78,225	34,712	23,997	2,677	91,499	31,312
Public	311,039	5,729	11,005	176,273	2,418	18,336	22,504	7,649	2,616	54,285	10,224
Central Connecticut State U.	1,314	33	79	142	25	73	14	541	0	100	307
Eastern Connecticut State U.	1,646	248	143	210	87	5	28	3	127	0	795
Southern Connecticut State U.	5,750	154	300	689	187	576	332	400	229	0	2,883
U. Connecticut	302,329	5,294	10,483	175,232	2,119	17,682	22,130	6,705	2,260	54,185	6,239
Private	1,183,318	8,940	7,604	1,015,733	4,233	59,889	12,208	16,348	61	37,214	21,088
Connecticut C.	1,244	168	0	232	0	271	166	407	0	0	0
Fairfield U.	849	12	0	36	78	134	9	79	0	109	392
Sacred Heart U.	972	12	40	26	0	64	0	0	32	0	798
Trinity C., Hartford	1,775	9	0	1,077	64	113	295	117	0	45	55
U. Hartford	1,252	1	0	77	100	0	51	55	0	963	5
U. New Haven	4,069	1,359	93	190	0	323	232	1,499	0	319	54
Wesleyan U.	8,009	0	450	1,469	402	2,137	1,002	136	0	0	2,413
Yale U.	1,165,148	7,379	7,021	1,012,626	3,589	56,847	10,453	14,055	29	35,778	17,371
Delaware	254,725	4,516	18,550	75,019	1,387	28,319	9,134	13,854	2,435	90,635	10,876
Public	254,725	4,516	18,550	75,019	1,387	28,319	9,134	13,854	2,435	90,635	10,876

TABLE 71

**Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Delaware State U.	23,193	334	377	14,196	3	2,304	1,144	528	0	308	3,999
U. Delaware	231,532	4,182	18,173	60,823	1,384	26,015	7,990	13,326	2,435	90,327	6,877
District of Columbia	717,928	31,745	1,678	402,791	5,568	47,482	9,532	76,874	6,079	39,344	96,835
Public	11,890	242	177	3,454	447	0	0	2,186	0	3,134	2,250
National Defense U.	3,786	0	0	400	0	0	0	2,186	0	0	1,200
U. of the District of Columbia	8,104	242	177	3,054	447	0	0	0	0	3,134	1,050
Private	706,038	31,503	1,501	399,337	5,121	47,482	9,532	74,688	6,079	36,210	94,585
American U.	65,912	649	1,035	1,148	1,538	4,404	1,063	16,428	3,243	0	36,404
Catholic U. of America	35,548	50	0	1,649	53	19,708	520	651	0	3,926	8,991
Gallaudet U.	6,126	2,141	2	1,159	1	92	1,715	1,006	0	0	10
George Washington U.	266,108	7,326	175	180,965	725	7,033	3,071	23,621	2,836	22,749	17,607
Georgetown U.	279,932	19,590	0	183,629	2,606	10,525	949	32,030	0	0	30,603
Howard U.	52,412	1,747	289	30,787	198	5,720	2,214	952	0	9,535	970
Florida	2,769,387	100,397	148,762	1,428,185	18,932	185,231	99,127	99,764	9,724	372,549	306,716
Public	2,326,008	91,751	82,509	1,115,419	17,693	172,831	82,595	98,825	9,589	350,852	303,944
Florida A&M U.	47,124	16	5,633	23,507	4	1,346	212	5	0	5,222	11,179
Florida Atlantic U.	58,471	2,479	2,013	27,748	1,026	2,726	1,771	153	0	17,064	3,491
Florida Gulf Coast U.	8,197	13	2,475	2,209	0	197	10	8	0	145	3,140
Florida International U.	246,075	16,708	16,584	55,462	1,915	27,997	34,345	19,172	1,950	41,740	30,202
Florida Polytechnic U.	1,269	193	0	0	0	71	0	73	0	829	103
Florida State U.	328,604	10,320	16,252	61,377	6,567	63,481	16,829	18,501	5,435	52,153	77,689
U. Central Florida	218,596	32,242	3,951	30,876	3,269	37,144	9,231	6,935	893	57,620	36,435
U. Florida	959,965	15,238	16,189	706,987	1,757	28,005	12,597	16,015	12	122,704	40,461
U. North Florida	15,782	418	21	1,647	19	608	249	277	0	2,119	10,424
U. South Florida <sup>b</sup>	405,088	11,614	19,373	203,414	3,055	9,900	6,927	33,907	1,299	50,547	65,052
U. West Florida	36,837	2,510	18	2,192	81	1,356	424	3,779	0	709	25,768
Private	443,379	8,646	66,253	312,766	1,239	12,400	16,532	939	135	21,697	2,772
Embry-Riddle Aeronautical U.	19,830	2,136	1,200	0	110	3,853	0	476	0	11,279	776
Florida Institute of Technology	23,195	5,643	3,254	2,175	286	3,547	1,371	0	71	5,891	957
Nova Southeastern U.	24,513	32	10,973	12,827	0	0	353	0	0	0	328

TABLE 71

**Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Miami	375,841	835	50,826	297,764	843	5,000	14,808	463	64	4,527	711
Georgia	2,949,654	164,337	37,779	1,377,997	21,551	100,841	48,906	80,136	7,250	917,835	193,022
Public	1,996,399	160,643	35,562	539,565	18,308	69,317	42,794	75,999	6,400	865,872	181,939
Albany State U.	880	0	299	272	0	102	0	11	0	14	182
Augusta U.	116,480	141	0	115,862	44	172	155	41	0	0	65
Fort Valley State U.	4,842	42	82	4,620	22	76	0	0	0	0	0
Georgia Institute of Technology	1,114,481	146,318	13,998	32,997	8,614	33,914	3,782	7,467	0	839,071	28,320
Georgia Southern U.	37,201	1,045	890	7,662	1,405	5,400	1,069	3,743	26	4,052	11,909
Georgia State U.	206,472	4,896	1,500	65,536	2,091	17,588	9,692	33,767	0	0	71,402
Kennesaw State U.	18,880	3,745	0	3,073	287	1,133	231	2,554	1,280	1,858	4,719
Savannah State U.	1,804	0	815	268	0	34	0	0	99	588	0
U. Georgia	493,944	4,121	17,846	309,153	5,845	10,896	27,865	28,411	4,995	20,289	64,523
U. North Georgia	1,415	335	132	122	0	2	0	5	0	0	819
Private	953,255	3,694	2,217	838,432	3,243	31,524	6,112	4,137	850	51,963	11,083
Clark Atlanta U.	8,892	160	0	6,614	286	1,616	0	0	0	36	180
Emory U.	852,922	2,841	2,217	789,831	1,693	25,676	5,215	3,979	0	11,488	9,982
Mercer U.	51,989	140	0	8,627	219	1,878	270	105	217	40,439	94
Morehouse C.	4,533	540	0	90	949	1,831	59	0	633	0	431
Morehouse School of Medicine	32,637	0	0	32,637	0	0	0	0	0	0	0
Spelman C.	2,282	13	0	633	96	523	568	53	0	0	396
Hawaii	294,913	13,533	86,395	129,951	1,437	26,447	414	3,902	5,605	23,979	3,250
Public	293,064	13,461	86,106	128,740	1,437	26,447	414	3,670	5,605	23,966	3,218
U. Hawaii, Hilo	7,411	94	1,195	4,525	998	66	0	179	322	0	32
U. Hawaii, Manoa	271,768	11,590	73,176	123,962	439	26,381	414	3,481	5,283	23,966	3,076
U. Hawaii, Maui C.	967	450	144	253	0	0	0	10	0	0	110
U. Hawaii, system office	12,918	1,327	11,591	0	0	0	0	0	0	0	0
Private	1,849	72	289	1,211	0	0	0	232	0	13	32
Hawaii Pacific U.	1,849	72	289	1,211	0	0	0	232	0	13	32
Idaho	165,913	4,556	9,559	90,510	1,671	9,374	582	7,220	3,804	32,273	6,364
Public	165,913	4,556	9,559	90,510	1,671	9,374	582	7,220	3,804	32,273	6,364
Boise State U.	46,065	1,686	3,129	12,908	1,475	5,881	127	2,554	489	14,918	2,898



TABLE 71

**Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Idaho State U.	13,953	686	1,627	4,167	2	1,847	266	213	527	4,411	207
U. Idaho	105,895	2,184	4,803	73,435	194	1,646	189	4,453	2,788	12,944	3,259
Illinois	2,914,398	158,026	22,892	1,810,943	14,781	250,154	35,280	68,466	48,039	386,218	119,599
Public	1,283,577	113,476	12,111	637,925	8,159	106,589	19,369	22,913	20,437	261,728	80,870
Illinois State U.	24,152	168	591	4,364	215	1,171	50	1,105	0	0	16,488
Northeastern Illinois U.	1,913	46	68	1,111	71	34	0	40	0	0	543
Northern Illinois U.	25,261	944	803	3,011	40	5,454	947	4,024	0	4,134	5,904
Southern Illinois U., Carbondale	47,210	566	1,643	37,448	14	2,052	381	996	990	3,120	0
Southern Illinois U., Edwardsville	18,044	49	2,542	7,333	185	1,374	0	334	0	1,786	4,441
U. Illinois, Chicago	429,585	12,103	943	324,053	4,021	17,718	2,928	8,351	6,112	35,675	17,681
U. Illinois, Springfield	2,612	0	0	6	0	20	0	2,260	0	0	326
U. Illinois, Urbana-Champaign	731,268	99,600	5,521	258,253	3,612	78,698	15,063	5,604	13,335	216,233	35,349
Western Illinois U.	3,532	0	0	2,346	1	68	0	199	0	780	138
Private	1,630,821	44,550	10,781	1,173,018	6,622	143,565	15,911	45,553	27,602	124,490	38,729
DePaul U.	6,675	1,552	276	573	2	258	2,415	43	174	0	1,382
Erikson Institute	1,723	0	0	0	0	0	0	0	0	0	1,723
Illinois Institute of Technology	29,698	2,647	224	9,053	381	3,483	0	13	4	13,737	156
Loyola U., Chicago	44,036	216	0	38,592	81	1,026	1,288	1,139	0	0	1,694
Midwestern U.	10,961	0	4	10,957	0	0	0	0	0	0	0
Northwestern U.	913,178	8,957	1,342	659,195	1,490	83,618	3,352	21,988	27,424	80,735	25,077
Rosalind Franklin U. of Medicine and Science	13,805	0	0	13,478	0	0	327	0	0	0	0
Rush U.	107,398	0	0	104,999	0	0	2,399	0	0	0	0
Toyota Technological Institute, Chicago	4,967	4,967	0	0	0	0	0	0	0	0	0
U. Chicago	497,651	26,205	8,854	336,114	4,653	55,032	6,041	22,088	0	30,018	8,646
Wheaton C., Wheaton	729	6	81	57	15	148	89	282	0	0	51
Indiana	1,699,302	81,716	16,551	795,226	9,647	124,463	30,662	78,942	33,525	398,344	130,226
Public	1,458,978	67,755	16,551	765,627	4,896	77,131	26,208	68,608	20,140	307,772	104,290

TABLE 71

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2021

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Ball State U.	8,826	1,079	0	2,674	27	826	183	1,473	0	0	2,564
Indiana State U.	1,042	0	74	465	37	89	0	0	10	2	365
Indiana U., Bloomington	695,258	38,843	7,960	501,125	1,678	30,322	13,211	40,800	12,122	13,012	36,185
Indiana U., South Bend	898	3	1	62	0	281	187	10	170	0	184
Indiana U.-Purdue U., Indianapolis	65,330	4,643	938	22,890	404	2,748	4,030	11,605	4,993	6,604	6,475
Purdue U., Fort Wayne	2,495	0	0	255	8	92	233	108	156	465	1,178
Purdue U., Northwest	5,647	863	0	974	0	110	22	1	70	2,220	1,387
Purdue U., West Lafayette	679,482	22,324	7,578	237,182	2,742	42,663	8,342	14,611	2,619	285,469	55,952
Private	240,324	13,961	0	29,599	4,751	47,332	4,454	10,334	13,385	90,572	25,936
U. Notre Dame	240,324	13,961	0	29,599	4,751	47,332	4,454	10,334	13,385	90,572	25,936
Iowa	931,207	10,313	7,978	565,832	16,738	60,598	14,596	19,174	4,002	171,195	60,781
Public	917,410	10,042	7,772	558,404	16,508	59,675	14,576	17,863	4,002	171,150	57,418
Iowa State U.	360,275	5,844	5,650	142,283	16,101	26,696	3,595	10,196	878	123,428	25,604
U. Iowa	553,876	4,180	1,971	415,734	406	32,013	10,981	6,010	3,124	47,722	31,735
U. Northern Iowa	3,259	18	151	387	1	966	0	1,657	0	0	79
Private	13,797	271	206	7,428	230	923	20	1,311	0	45	3,363
Des Moines U.	5,258 i	0 i	206 i	3,805 i	0 i	0 i	0 i	593 i	0 i	0 i	654 i
Dordt U.	696	69	0	464	94	11	0	1	0	45	12
Drake U.	1,488	1	0	503	28	221	0	31	0	0	704
Grinnell C.	4,122	201	0	423	108	691	20	686	0	0	1,993
Palmer C. of Chiropractic, Davenport	2,233	0	0	2,233	0	0	0	0	0	0	0
Kansas	785,055	7,550	13,490	364,210	3,670	29,957	16,234	12,105	17,117	208,786	111,936
Public	785,055	7,550	13,490	364,210	3,670	29,957	16,234	12,105	17,117	208,786	111,936
Fort Hays State U.	800	0	117	334	0	267	0	11	0	0	71
Kansas State U.	203,846	3,898	1,130	119,328	2,708	12,736	4,287	9,633	8,736	27,743	13,647
Pittsburg State U.	2,730	0	0	293	0	24	0	163	0	2,250	0
U. Kansas	385,637	3,652	11,923	230,059	543	15,492	11,469	1,918	8,381	21,363	80,837
Wichita State U.	192,042	0	320	14,196	419	1,438	478	380	0	157,430	17,381
Kentucky	655,290	4,131	4,712	497,984	2,785	14,189	7,201	5,921	19,408	74,744	24,215
Public	655,290	4,131	4,712	497,984	2,785	14,189	7,201	5,921	19,408	74,744	24,215
Eastern Kentucky U.	986	0	10	509	0	131	43	64	82	58	89

TABLE 71

**Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Kentucky State U.	8,756	15	2	8,546	193	0	0	0	0	0	0
Morehead State U.	1,754	0	7	802	0	5	0	165	0	756	19
Murray State U.	3,844	0	139	3,108	309	201	0	0	0	0	87
Northern Kentucky U.	3,403	34	0	1,939	65	671	459	98	0	0	137
U. Kentucky	429,241	4,011	3,356	323,030	1,512	8,722	4,185	4,075	17,548	52,361	10,441
U. Louisville	200,362	71	185	157,735	697	3,254	1,757	1,330	1,778	20,965	12,590
Western Kentucky U.	6,944	0	1,013	2,315	9	1,205	757	189	0	604	852
Louisiana	830,787	38,768	40,888	490,628	7,275	50,680	3,811	20,744	13,052	91,570	73,371
Public	610,254	36,243	36,584	320,887	6,757	36,970	2,040	13,771	13,052	84,851	59,099
Grambling State U.	2,124	0	0	0	0	1,238	0	0	0	0	886
Louisiana State U., Baton Rouge	296,673	15,399	28,763	158,608	2,077	23,438	750	4,537	10,831	39,104	13,166
Louisiana State U., Health Sciences Center, New Orleans	44,370	0	0	44,370	0	0	0	0	0	0	0
Louisiana State U., Health Sciences Center, Shreveport	24,600	0	0	24,600	0	0	0	0	0	0	0
Louisiana Tech U.	27,417	1,952	236	2,242	999	2,342	616	1,136	0	11,257	6,637
Northwestern State U. Louisiana	1,663	224	0	89	12	0	0	919	0	0	419
Southeastern Louisiana U.	1,723	2	0	795	0	247	0	11	0	16	652
Southern U. and A&M C., Agricultural Research and Extension Center	6,164	0	0	6,164	0	0	0	0	0	0	0
Southern U. and A&M C., Baton Rouge	4,943	473	0	492	68	583	0	1	0	2,282	1,044
U. Louisiana, Lafayette	181,400	16,823	6,277	80,528	3,119	6,453	151	3,919	1,184	30,295	32,651
U. Louisiana, Monroe	2,198	0	64	1,885	0	17	0	169	0	0	63
U. New Orleans	16,979	1,370	1,244	1,114	482	2,652	523	3,079	1,037	1,897	3,581
Private	220,533	2,525	4,304	169,741	518	13,710	1,771	6,973	0	6,719	14,272
Dillard U.	2,528	0	87	1,356	0	252	0	38	0	0	795
Tulane U.	205,206	1,873	4,217	164,874	518	5,018	1,771	6,935	0	6,662	13,338
Xavier U. Louisiana	12,799	652	0	3,511	0	8,440	0	0	0	57	139

TABLE 71

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2021

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Maine	165,224	4,201	26,215	48,195	684	7,785	1,408	5,524	12,954	47,145	11,113
Public	152,281	4,007	24,796	39,428	668	6,820	1,108	5,183	12,905	47,145	10,221
U. Maine	146,801	2,585	24,778	38,598	657	6,803	1,108	2,316	12,888	46,986	10,082
U. Southern Maine	5,480	1,422	18	830	11	17	0	2,867	17	159	139
Private	12,943	194	1,419	8,767	16	965	300	341	49	0	892
Bates C.	2,620	19	37	1,783	2	413	101	173	49	0	43
Bowdoin C.	2,417	81	328	1,262	10	288	125	18	0	0	305
Colby C.	1,672	94	187	382	3	245	72	150	0	0	539
U. New England	6,234	0	867	5,340	1	19	2	0	0	0	5
Maryland	4,914,256	335,424	206,223	2,102,482	123,085	463,521	34,407	82,185	68,341	1,413,780	84,808
Public	1,732,871	65,384	126,966	1,032,617	5,656	125,067	28,206	76,880	17,935	175,800	78,360
Bowie State U.	1,398	446	0	96	0	438	0	0	0	0	418
Morgan State U.	20,628	660	3,298	5,810	146	774	9	160	0	8,031	1,740
Salisbury U.	10,552	303	988	2,598	123	440	13	488	0	3	5,596
Towson U.	3,794	530	481	914	191	723	213	238	0	0	504
U. Baltimore	14,672	46	0	0	0	45	0	2,824	0	0	11,757
U. Maryland <sup>c</sup>	1,142,264	50,483	61,660	633,517	3,760	101,322	8,600	58,423	15,701	154,163	54,635
U. Maryland Center for Environmental Science	51,201	40	40,621	8,729	15	519	0	326	0	72	879
U. Maryland, Baltimore County	84,418	12,102	15,087	10,033	428	19,202	1,491	14,413	2,234	6,668	2,760
U. Maryland, Eastern Shore	8,636	0	4,182	4,310	0	0	0	0	0	144	0
U.S. Naval Academy	10,818	774	649	0	993	1,604	0	8	0	6,719	71
Uniformed Services U. of the Health Sciences	384,490	0	0	366,610	0	0	17,880	0	0	0	0
Private	3,181,385	270,040	79,257	1,069,865	117,429	338,454	6,201	5,305	50,406	1,237,980	6,448
Johns Hopkins U. <sup>d</sup>	3,181,385	270,040	79,257	1,069,865	117,429	338,454	6,201	5,305	50,406	1,237,980	6,448
Massachusetts	4,568,999	229,875	273,145	1,954,323	53,914	432,465	67,570	300,230	46,407	912,804	298,266
Public	754,263	39,183	21,352	442,647	5,955	47,640	14,050	26,369	3,283	105,719	48,065
Framingham State U.	2,401	0	0	2,132	0	258	11	0	0	0	0
U. Massachusetts, Amherst	213,824	27,336	3,582	69,519	3,218	22,250	8,004	5,623	1,590	60,065	12,637

TABLE 71

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2021

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Massachusetts, Boston	63,723	2,709	2,960	8,612	486	4,174	4,292	12,178	444	1,266	26,602
U. Massachusetts, central office	3,541	0	0	392	0	0	0	1,611	852	0	686
U. Massachusetts, Dartmouth	28,729	1,718	12,196	1,834	1,497	2,650	0	42	0	8,049	743
U. Massachusetts, Lowell	94,708	7,420	2,614	12,821	754	18,308	1,743	6,915	397	36,339	7,397
U. Massachusetts, Medical School	347,337	0	0	347,337	0	0	0	0	0	0	0
Private	3,814,736	190,692	251,793	1,511,676	47,959	384,825	53,520	273,861	43,124	807,085	250,201
Amherst C.	4,636	150	567	1,259	316	1,203	201	530	0	0	410
Babson C.	1,286	0	0	0	0	0	0	0	0	0	1,286
Boston C.	65,156	663	7,414	9,313	1,079	11,863	4,588	10,756	0	50	19,430
Boston U.	652,096	14,542	7,876	445,535	5,039	35,094	22,092	9,041	6,515	79,757	26,605
Brandeis U.	107,549	3,187	0	27,969	1,880	15,157	4,423	34,261	0	4,055	16,617
Clark U.	7,931	36	1,197	2,197	0	1,386	223	2,711	0	0	181
Franklin W. Olin C. of Engineering	1,627	0	0	0	0	0	0	0	0	936	691
Harvard U.	1,254,008	20,858	38,756	714,069	19,503	109,606	4,200	136,543	8,608	92,782	109,083
Massachusetts Institute of Technology	949,076	116,877	30,961	118,283	9,015	170,494	478	47,850	19,812	382,569	52,737
MGH Institute of Health Professions	3,037	0	0	2,500	0	0	0	0	0	0	537
Mount Holyoke C.	2,026	152	0	456	62	550	519	106	0	0	181
New England C. of Optometry	1,978	0	0	1,978	0	0	0	0	0	0	0
Northeastern U.	211,342	21,505	4,044	32,513	1,210	24,279	9,695	13,062	0	92,723	12,311
Smith C.	4,085	352	228	1,462	120	495	195	93	0	688	452
Suffolk U.	2,043	0	28	33	0	70	438	0	0	66	1,408
Tufts U.	224,956	1,045	377	149,664	7,181	9,212	5,486	15,859	8,188	24,017	3,927
Wellesley C.	6,252	505	86	1,554	263	327	899	722	0	345	1,551
Williams C.	4,902	113	200	703	411	1,237	83	812	1	0	1,342
Woods Hole Oceanographic Institution	262,048	0	160,059	0	0	0	0	0	0	101,989	0

TABLE 71

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2021

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Worcester Polytechnic Institute	48,702	10,707	0	2,188	1,880	3,852	0	1,515	0	27,108	1,452
Michigan	2,842,492	38,587	42,804	1,534,464	33,632	270,088	36,298	230,453	29,000	439,018	188,148
Public	2,760,416	38,246	42,600	1,462,804	33,375	266,851	36,024	229,046	28,989	437,630	184,851
Central Michigan U.	21,726	87	557	14,879	141	1,891	486	152	1,785	412	1,336
Eastern Michigan U.	7,233	30	108	2,811	174	211	183	892	6	427	2,391
Grand Valley State U.	6,809	31	2,803	1,833	53	247	52	1,178	0	118	494
Michigan State U.	710,178	15,996	5,695	317,235	11,152	167,520	13,042	45,620	17,284	79,360	37,274
Michigan Technological U.	81,715	4,582	16,272	2,621	1,942	4,085	546	1,279	447	46,733	3,208
Northern Michigan U.	1,364	37	101	855	0	10	69	55	0	0	237
Oakland U.	20,261	1,150	0	7,887	55	5,596	377	161	0	4,437	598
Saginaw Valley State U.	2,428 i	7 i	36 i	1,282 i	617 i	36 i	11 i	105 i	12 i	280 i	42 i
U. Michigan, Ann Arbor	1,639,645	13,922	15,080	931,174	17,937	66,041	18,255	175,698	3,628	279,682	118,228
U. Michigan, Dearborn	7,472	61	0	226	190	169	154	62	89	6,223	298
U. Michigan, Flint	752	16	0	172	0	12	5	14	30	225	278
Wayne State U.	235,519	2,158	288	175,847	1,093	19,885	2,542	3,585	5,621	11,675	12,825
Western Michigan U. and Homer Stryker M.D. School of Medicine	25,314	169	1,660	5,982	21	1,148	302	245	87	8,058	7,642
Private	82,076	341	204	71,660	257	3,237	274	1,407	11	1,388	3,297
Albion C.	1,127 i	1 i	82 i	94 i	30 i	435 i	44 i	171 i	11 i	0 i	259 i
Andrews U.	802	0	32	7	0	174	0	509	0	50	30
Calvin U.	1,490 i	218 i	31 i	514 i	33 i	458 i	0 i	88 i	0 i	97 i	51 i
Hope C.	5,211	63	59	1,152	30	2,032	177	639	0	277	782
Kettering U.	1,315	5	0	8	2	77	0	0	0	295	928
Lawrence Technological U.	1,764	54	0	0	9	55	0	0	0	555	1,091
U. Detroit Mercy	4,578	0	0	4,096	153	6	53	0	0	114	156
Van Andel Research Institute	65,789	0	0	65,789	0	0	0	0	0	0	0
Minnesota	1,115,363	23,891	15,820	782,984	9,161	44,034	30,436	34,891	3,097	128,268	42,781
Public	1,102,132	23,272	14,406	780,952	8,829	42,586	29,726	33,828	3,097	125,056	40,380

TABLE 71

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2021

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Minnesota State U., Mankato	2,170	0	13	448	0	29	298	0	250	996	136
St. Cloud State U.	2,379	233	128	379	0	13	0	393	2	31	1,200
U. Minnesota, Duluth	23,767	242	451	19,119	274	624	20	154	0	2,392	491
U. Minnesota, Morris	855	168	180	31	0	108	0	33	0	0	335
U. Minnesota, Twin Cities	1,072,961	22,629	13,634	760,975	8,555	41,812	29,408	33,248	2,845	121,637	38,218
Private	13,231	619	1,414	2,032	332	1,448	710	1,063	0	3,212	2,401
C. of Saint Benedict	1,064	19	0	450	14	108	37	114	0	0	322
Carleton C.	3,800	68	900	501	173	531	234	577	0	0	816
Macalester C.	1,280	70	221	108	100	451	23	160	0	0	147
Saint John's U.	1,125	20	0	470	13	108	37	125	0	0	352
St. Olaf C.	816	114	71	321	4	82	51	84	0	0	89
U. of St. Thomas (MN)	5,146	328	222	182	28	168	328	3	0	3,212	675
Mississippi	491,172	6,713	42,938	232,972	2,282	44,820	3,017	36,766	2,597	81,885	37,182
Public	489,080	6,713	42,938	231,239	2,282	44,461	3,017	36,766	2,597	81,885	37,182
Alcorn State U.	14,188	0	0	6,826	0	0	0	7,181	0	181	0
Jackson State U.	16,157	662	2	3,183	44	8,231	174	73	217	2,236	1,335
Mississippi State U.	275,143	5,546	15,520	127,096	1,880	10,755	1,836	25,601	2,206	67,472	17,231
U. Mississippi	116,175	273	1,306	82,916	358	10,803	889	1,777	174	6,033	11,646
U. Southern Mississippi	67,417	232	26,110	11,218	0	14,672	118	2,134	0	5,963	6,970
Private	2,092	0	0	1,733	0	359	0	0	0	0	0
Tougaloo C.	2,092	0	0	1,733	0	359	0	0	0	0	0
Missouri	1,582,870	17,264	10,023	1,230,715	3,159	43,792	13,245	11,933	33,406	144,926	74,407
Public	509,338	11,344	1,676	271,821	2,129	17,341	6,891	9,179	30,290	116,353	42,314
Lincoln U., Jefferson City	7,621	6	60	7,345	90	0	0	120	0	0	0
Missouri State U.	10,014	42	177	2,109	0	345	34	263	0	7,024	20
Missouri U. of Science and Technology	54,437	2,545	0	555	252	4,478	134	69	166	43,470	2,768
U. Missouri, Columbia	388,779	6,866	1,249	237,728	1,377	8,722	5,836	6,665	29,372	56,685	34,279
U. Missouri, Kansas City	33,855	1,698	190	17,966	3	1,451	646	180	448	9,174	2,099
U. Missouri, Saint Louis	14,632	187	0	6,118	407	2,345	241	1,882	304	0	3,148
Private	1,073,532	5,920	8,347	958,894	1,030	26,451	6,354	2,754	3,116	28,573	32,093
Saint Louis U.	79,005	1,345	2,264	65,928	190	2,131	233	1,380	0	1,999	3,535

TABLE 71

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2021

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. of Health Sciences and Pharmacy in St. Louis	5,313	0	0	5,313	0	0	0	0	0	0	0
Washington U., Saint Louis	989,214	4,575	6,083	887,653	840	24,320	6,121	1,374	3,116	26,574	28,558
Montana	330,081	4,832	19,902	148,059	3,405	32,160	1,348	23,142	11,499	57,619	28,115
Public	330,081	4,832	19,902	148,059	3,405	32,160	1,348	23,142	11,499	57,619	28,115
Montana State U., Bozeman	193,577	2,625	5,468	74,897	2,527	23,329	415	2,194	11,499	51,785	18,838
Montana Technological U.	14,933	0	8,222	661	0	216	0	0	0	5,834	0
U. Montana, Missoula	121,571	2,207	6,212	72,501	878	8,615	933	20,948	0	0	9,277
Nebraska	575,986	13,558	2,062	394,577	5,263	27,667	13,364	14,904	5,870	60,399	38,322
Public	551,559	12,432	2,062	376,435	5,024	25,927	13,085	13,836	5,870	60,398	36,490
U. Nebraska, central administration	21,295	448	0	12,423	0	0	0	0	0	8,060	364
U. Nebraska, Kearney	3,201	43	0	2,021	0	657	127	19	0	0	334
U. Nebraska, Lincoln	307,083	9,353	2,028	153,809	4,556	25,194	12,502	11,493	2,521	51,287	34,340
U. Nebraska, Medical Center	200,974	0	0	200,974	0	0	0	0	0	0	0
U. Nebraska, Omaha	19,006	2,588	34	7,208	468	76	456	2,324	3,349	1,051	1,452
Private	24,427	1,126	0	18,142	239	1,740	279	1,068	0	1	1,832
Creighton U.	23,251	928	0	17,512	239	1,621	279	1,068	0	0	1,604
Doane U.	1,176	198	0	630	0	119	0	0	0	1	228
Nevada	308,745	7,858	47,903	119,991	4,401	18,614	10,160	14,173	3,403	38,436	43,806
Public	302,760	7,858	47,903	114,098	4,401	18,614	10,160	14,173	3,403	38,436	43,714
Desert Research Institute	26,365	0	22,791	3,574	0	0	0	0	0	0	0
U. Nevada, Las Vegas	101,009	1,015	6,082	32,306	2,624	10,589	3,738	6,536	558	10,667	26,894
U. Nevada, Reno	175,386	6,843	19,030	78,218	1,777	8,025	6,422	7,637	2,845	27,769	16,820
Private	5,985	0	0	5,893	0	0	0	0	0	0	92
Roseman U. of Health Sciences	5,985	0	0	5,893	0	0	0	0	0	0	92
New Hampshire	498,518	19,660	60,130	217,119	8,171	31,517	12,949	36,504	4,466	56,182	51,820
Public	168,292	1,104	55,523	53,417	1,239	5,205	1,279	13,329	0	22,623	14,573
Keene State C.	919	47	0	510	0	248	0	0	0	114	0
U. New Hampshire	167,373	1,057	55,523	52,907	1,239	4,957	1,279	13,329	0	22,509	14,573



TABLE 71

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2021

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Private	330,226	18,556	4,607	163,702	6,932	26,312	11,670	23,175	4,466	33,559	37,247
Dartmouth C. and Dartmouth Hitchcock Medical Center	330,226	18,556	4,607	163,702	6,932	26,312	11,670	23,175	4,466	33,559	37,247
New Jersey	1,352,770	52,246	60,539	630,519	27,549	145,908	17,112	76,481	4,209	246,700	91,507
Public	897,949	23,744	29,844	533,806	15,821	44,076	11,659	19,113	4,079	145,486	70,321
C. New Jersey	1,912	178	0	856	10	423	10	1	67	283	84
Kean U.	3,538	229	61	56	0	18	16	0	13	0	3,145
Montclair State U.	17,390	314	1,815	3,231	785	737	3,099	1,378	7	104	5,920
New Jersey Institute of Technology	166,587	11,575	0	22,393	4,949	15,415	0	6,602	16	82,240	23,397
Rowan U.	26,458	588	397	10,849	225	1,524	739	65	129	11,570	372
Rutgers, State U. New Jersey, Camden	5,142	2,353	0	13	111	41	26	1,339	0	0	1,259
Rutgers, State U. New Jersey, New Brunswick	643,955	6,316	24,326	483,265	9,673	23,111	6,145	7,351	3,804	51,289	28,675
Rutgers, State U. New Jersey, Newark	23,854	2,013	1,873	11,845	0	2,667	1,139	672	43	0	3,602
Stockton U.	1,246	0	885	247	0	0	0	114	0	0	0
William Paterson U.	7,867	178	487	1,051	68	140	485	1,591	0	0	3,867
Private	454,821	28,502	30,695	96,713	11,728	101,832	5,453	57,368	130	101,214	21,186
Monmouth U.	1,667	0	1,492	74	0	44	12	45	0	0	0
Princeton U.	404,448	23,518	29,203	95,938	11,672	99,326	5,441	57,323	0	67,231	14,796
Seton Hall U.	5,320	0	0	607	0	396	0	0	0	0	4,317
Stevens Institute of Technology	43,386	4,984	0	94	56	2,066	0	0	130	33,983	2,073
New Mexico	473,020	14,573	19,301	293,050	1,348	28,914	6,743	11,114	7,272	84,203	6,502
Public	473,020	14,573	19,301	293,050	1,348	28,914	6,743	11,114	7,272	84,203	6,502
New Mexico Highlands U.	1,129	141	198	222	0	568	0	0	0	0	0
New Mexico Institute of Mining and Technology	28,745	6,732	7,309	290	3	1,151	0	0	0	13,002	258
New Mexico State U.	110,580	4,043	5,067	48,808	116	20,108	422	570	502	29,884	1,060
U. New Mexico	332,566	3,657	6,727	243,730	1,229	7,087	6,321	10,544	6,770	41,317	5,184
New York	7,577,235	167,226	152,114	4,961,142	51,181	455,657	109,253	161,704	27,037	1,125,871	366,050

TABLE 71

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2021

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Public	1,716,336	49,974	57,281	611,507	17,093	107,991	46,427	54,106	18,618	681,911	71,428
CUNY, Advanced Science Research Center	15,403	74	1,030	5,261	0	6,107	0	0	0	2,928	3
CUNY, Baruch C.	2,521	45	44	785	211	256	279	677	0	0	224
CUNY, Brooklyn C.	6,318	314	504	1,570	68	1,325	1,723	169	18	77	550
CUNY, C. Staten Island	2,860	54	0	1,109	391	525	352	21	0	274	134
CUNY, City C.	57,361	778	1,600	9,192	158	8,709	15	16	0	34,710	2,183
CUNY, Graduate Center	4,265	22	0	110	332	547	682	1,325	328	6	913
CUNY, Graduate School of Public Health and Health Policy	15,035	0	0	14,025	0	0	1,010	0	0	0	0
CUNY, Hunter C.	33,816	1,395	1,010	7,852	217	5,489	12,382	2,509	0	0	2,962
CUNY, John Jay C. of Criminal Justice	11,791	16	0	48	12	235	933	569	95	0	9,883
CUNY, Lehman C.	4,181	81	20	249	343	2,062	0	213	0	0	1,213
CUNY, New York City C. of Technology	1,367	172	0	362	50	331	0	11	0	103	338
CUNY, Queens C.	16,063	294	402	10,421	251	1,815	1,082	579	102	0	1,117
CUNY, system office	1,664	158	0	37	0	0	49	0	283	1,137	0
CUNY, York C.	1,133	0	543	142	12	192	159	0	0	12	73
SUNY, Binghamton U.	124,565	8,490	1,636	12,788	3,133	14,568	10,640	19,706	0	39,529	14,075
SUNY, Buffalo State	1,962	0	869	780	112	0	0	174	0	0	27
SUNY, C. Brockport	1,114	0	319	680	1	103	0	6	0	2	3
SUNY, C. of Environmental Science and Forestry	28,440	190	995	23,850	0	404	1,531	22	68	1,085	295
SUNY, C. of Optometry	3,460	0	0	3,460	0	0	0	0	0	0	0
SUNY, C. Plattsburgh	1,280	0	813	279	0	137	0	0	0	0	51
SUNY, Downstate Health Sciences U.	34,459	0	0	34,459	0	0	0	0	0	0	0
SUNY, Geneseo	2,070	0	212	108	3	1,197	219	108	0	0	223
SUNY, Oswego	1,003	56	71	135	3	328	2	71	257	43	37
SUNY, Polytechnic Institute	465,273	0	0	2,587	0	0	0	0	0	462,562	124
SUNY, Stony Brook U.	274,516	12,621	26,694	127,257	7,407	43,101	5,557	2,776	16,646	28,344	4,113

TABLE 71

**Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
SUNY, U. Albany	114,501	5,230	15,605	52,135	1,400	6,791	3,748	12,288	23	3,133	14,148
SUNY, U. Buffalo	425,349	17,679	4,912	254,314	1,730	13,431	5,677	8,687	642	100,194	18,083
SUNY, Upstate Medical U.	44,870	0	0	44,870	0	0	0	0	0	0	0
U.S. Military Academy	19,696	2,305	2	2,642	1,259	338	387	4,179	156	7,772	656
Private	5,860,899	117,252	94,833	4,349,635	34,088	347,666	62,826	107,598	8,419	443,960	294,622
Albany C. of Pharmacy and Health Sciences	3,687	0	0	3,687	0	0	0	0	0	0	0
Albany Medical C.	22,443	0	0	22,443	0	0	0	0	0	0	0
Albert Einstein C. of Medicine	301,715	0	0	301,715	0	0	0	0	0	0	0
Alfred U.	2,660	0	1	0	0	5	0	0	0	2,654	0
Barnard C.	4,632	260	164	1,008	10	1,319	1,043	320	0	0	508
Canisius C.	1,036	0	0	0	0	173	0	0	863	0	0
Clarkson U.	16,765	776	172	1,014	868	2,414	113	42	0	10,113	1,253
Cold Spring Harbor Laboratory	114,903	0	0	114,885	0	0	0	0	0	0	18
Colgate U.	3,306	214	677	507	153	884	63	309	0	0	499
Columbia U. in the City of New York	1,098,570	27,763	77,515	797,089	2,951	46,386	4,637	11,332	0	75,457	55,440
Cornell U.	1,183,524	28,125	6,589	833,824	2,467	120,151	11,273	22,269	0	118,621	40,205
Fordham U.	16,731	287	0	1,207	140	1,067	2,116	662	0	0	11,252
Hamilton C.	1,747	4	1	122	10	193	69	322	60	0	966
Hobart and William Smith Colleges	1,941	4	23	1,664	6	152	7	30	0	0	55
Hofstra U.	5,545	97	53	1,062	85	141	109	1,032	0	528	2,438
Icahn School of Medicine at Mount Sinai	820,260	0	0	820,260	0	0	0	0	0	0	0
Ithaca C.	1,030	73	114	230	74	379	2	94	0	0	64
Long Island U.	15,059	5	261	7,162	372	996	950	906	0	0	4,407
Manhattan C.	1,864	0	0	49	239	112	0	0	0	1,122	342
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	3,776	0	0	3,776	0	0	0	0	0	0	0

TABLE 71

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2021

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
New School	14,281	19	169	197	56	0	635	5,293	0	3,793	4,119
New York Institute of Technology	4,465	303	0	3,277	0	3	0	31	0	775	76
New York Medical C.	18,872	0	0	18,872	0	0	0	0	0	0	0
New York U.	1,063,704	15,246	436	771,663	16,998	26,417	27,209	29,601	17	99,307	76,810
Niagara U.	509	0	0	49	5	42	0	195	0	0	218
Pace U.	3,649	758	0	644	0	226	7	5	0	706	1,303
Pratt Institute	2,547	0	0	0	0	0	0	0	0	0	2,547
Rensselaer Polytechnic Institute	119,056	13,145	1,868	6,913	2,944	12,251	4,036	1,535	78	67,810	8,476
Rochester Institute of Technology	56,043	8,809	0	1,551	2,178	12,388	110	2,603	0	20,874	7,530
Rockefeller U.	357,543	8,886	660	339,729	1,433	6,835	0	0	0	0	0
Skidmore C.	2,335	14	320	1,042	0	689	146	58	0	0	66
St. John's U., New York	2,940	75	0	2,197	0	345	79	0	0	0	244
Syracuse U.	151,717	5,582	3,005	10,916	2,572	13,926	3,916	14,920	145	24,698	72,037
Teachers C., Columbia U.	24,335	2,913	0	5,040	0	0	878	15,472	0	0	32
U. Rochester	409,255	3,608	2,536	271,630	214	99,556	5,135	343	7,256	16,780	2,197
Union C., Schenectady	1,396	59	252	74	6	185	24	31	0	722	43
Vassar C.	1,606	227	17	307	307	178	269	193	0	0	108
Yeshiva U.	5,452	0	0	3,830	0	253	0	0	0	0	1,369
North Carolina	3,503,943	79,727	60,922	2,545,334	37,107	109,037	60,867	126,163	14,821	335,763	134,202
Public	1,995,082	74,135	53,612	1,249,431	27,858	83,842	52,309	88,322	14,770	239,661	111,142
Appalachian State U.	4,509	356	357	1,745	29	591	307	265	0	0	859
East Carolina U.	51,662	603	4,564	28,703	7	1,814	974	2,319	0	3,069	9,609
Elizabeth City State U.	1,717	518	0	752	0	0	49	0	0	0	398
Fayetteville State U.	3,933	584	0	960	0	147	0	293	0	288	1,661
North Carolina Agricultural and Technical State U.	40,751	1,227	0	20,086	797	1,158	236	69	0	11,616	5,562
North Carolina Central U.	14,105	157	294	6,109	0	3,257	0	250	0	1,773	2,265
North Carolina State U.	547,118	17,016	25,579	237,289	20,392	28,455	2,523	10,768	14,385	172,900	17,811
U. North Carolina, Asheville	4,844	284	260	2,045	0	558	2	0	0	0	1,695

TABLE 71

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2021

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. North Carolina, Chapel Hill	1,205,883	32,344	16,879	925,380	5,489	38,809	43,348	67,325	15	30,935	45,359
U. North Carolina, Charlotte	51,877	18,214	1,054	4,701	782	3,367	750	2,947	0	15,643	4,419
U. North Carolina, general administration	4,024	1,192	0	534	0	0	11	0	0	2,068	219
U. North Carolina, Greensboro	37,033	806	0	8,934	308	4,250	3,539	1,155	0	0	18,041
U. North Carolina, Wilmington	16,656	244	4,311	7,179	51	435	214	1,183	370	1,064	1,605
Western Carolina U.	2,847	0	314	1,484	3	45	0	290	0	305	406
Winston-Salem State U.	8,123	590	0	3,530	0	956	356	1,458	0	0	1,233
Private	1,508,861	5,592	7,310	1,295,903	9,249	25,195	8,558	37,841	51	96,102	23,060
Davidson C.	2,466	0	0	595	79	451	691	456	7	0	187
Duke U.	1,237,686	5,273	7,310	1,040,786	8,922	22,131	6,923	36,432	23	94,483	15,403
Elon U.	2,032	41	0	288	87	59	132	264	21	29	1,111
Johnson C. Smith U.	2,461 i	12 i	0 i	437 i	0 i	318 i	0 i	0 i	0 i	386 i	1,308 i
Wake Forest U.	264,216	266	0	253,797	161	2,236	812	689	0	1,204	5,051
North Dakota	307,556	4,785	6,914	137,493	1,873	13,041	3,996	8,263	6,018	100,541	24,632
Public	307,556	4,785	6,914	137,493	1,873	13,041	3,996	8,263	6,018	100,541	24,632
North Dakota State U.	164,050	2,929	680	106,163	1,501	10,077	2,283	6,686	5,701	13,963	14,067
U. North Dakota	143,506	1,856	6,234	31,330	372	2,964	1,713	1,577	317	86,578	10,565
Ohio	2,787,835	38,459	24,092	1,838,118	10,779	116,646	25,656	51,366	44,590	517,268	120,861
Public	2,171,167	28,353	21,280	1,476,784	9,934	106,191	23,836	45,429	44,211	298,031	117,118
Air Force Institute of Technology	45,703	1,921	175	0	828	15,999	0	0	0	26,780	0
Bowling Green State U.	18,619	192	1,875	3,158	160	2,345	979	3,631	20	57	6,202
Central State U.	8,751	0	102	8,134	69	67	0	0	168	211	0
Cleveland State U.	71,451	0	0	45,321	642	976	762	5,902	0	12,371	5,477
Kent State U.	50,408	1,509	1,038	9,034	1,385	9,048	4,536	4,930	828	3,732	14,368
Miami U.	25,138	564	1,071	9,733	427	3,940	1,510	1,444	0	4,356	2,093
Northeast Ohio Medical U.	13,853	0	5	13,823	0	0	0	23	2	0	0
Ohio State U.	1,236,111	16,691	7,979	876,239	4,793	40,010	8,139	17,017	42,228	163,509	59,506

TABLE 71

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2021

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Ohio U.	49,764	271	2,183	16,838	53	5,520	1,792	897	0	16,645	5,565
U. Akron	17,340	32	467	1,390	161	6,703	226	54	0	7,714	593
U. Cincinnati	551,826	3,614	913	456,847	1,320	9,189	4,278	11,451	898	42,434	20,882
U. Toledo	53,169	0	5,309	25,012	3	10,594	365	47	0	10,299	1,540
Wright State U.	26,259	3,531	163	11,213	90	1,465	1,194	0	67	8,129	407
Youngstown State U.	2,775	28	0	42	3	335	55	33	0	1,794	485
Private	616,668	10,106	2,812	361,334	845	10,455	1,820	5,937	379	219,237	3,743
C. Wooster	1,071	i 109	i 59	i 257	i 106	i 240	i 37	i 16	i 0	i 0	i 247
Case Western Reserve U.	421,868	2,407	536	360,294	697	9,007	1,654	5,880	379	39,079	1,935
Heidelberg U.	1,725	0	1,725	0	0	0	0	0	0	0	0
Oberlin C.	776	62	27	239	39	298	11	26	0	0	74
U. Dayton	191,228	7,528	465	544	3	910	118	15	0	180,158	1,487
Oklahoma	622,581	11,318	94,422	259,658	6,685	26,481	10,649	17,034	7,002	87,196	102,136
Public	606,132	8,535	94,220	258,933	6,682	26,078	10,177	16,860	7,002	76,270	101,375
Langston U.	6,345	0	0	6,062	0	28	0	0	0	0	255
Oklahoma State U., Center for Health Sciences	7,758	99	0	6,928	0	0	624	0	0	101	6
Oklahoma State U., Stillwater	198,799	3,636	3,119	77,720	4,276	8,824	6,926	5,445	6,896	35,094	46,863
U. Central Oklahoma	5,997	i 139	i 0	i 382	i 132	i 729	i 0	i 0	i 106	i 1	i 4,508
U. Oklahoma, Norman and Health Science Center	380,048	4,661	91,101	165,745	2,274	16,497	2,599	11,396	0	39,785	45,990
U. Oklahoma, Tulsa	7,185	0	0	2,096	0	0	28	19	0	1,289	3,753
Private	16,449	2,783	202	725	3	403	472	174	0	10,926	761
U. Tulsa	16,449	2,783	202	725	3	403	472	174	0	10,926	761
Oregon	929,355	15,453	51,650	670,887	3,336	22,178	22,452	14,521	6,298	73,686	48,894
Public	914,585	15,381	51,317	664,460	2,972	20,585	21,920	13,848	6,247	73,686	44,169
Oregon Health and Science U.	452,812	0	0	439,212	0	0	60	0	0	13,526	14
Oregon Institute of Technology	4,314	i 134	i 328	i 2,894	i 84	i 0	i 113	i 0	i 0	i 761	i 0
Oregon State U.	276,955	7,241	43,111	151,779	1,247	4,727	1,035	5,713	3,634	52,731	5,737
Portland State U.	41,311	1,644	1,818	13,784	947	1,977	1,257	4,338	663	6,668	8,215

TABLE 71

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2021

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Oregon	139,193	6,362	6,060	56,791	694	13,881	19,455	3,797	1,950	0	30,203
Private	14,770	72	333	6,427	364	1,593	532	673	51	0	4,725
Lewis and Clark C.	2,281	0	280	288	79	249	29	11	0	0	1,345
National U. of Natural Medicine	850	0	0	850	0	0	0	0	0	0	0
Pacific U.	4,690	0	0	3,186	46	299	0	236	0	0	923
Reed C.	5,132	72	0	1,629	229	866	464	422	0	0	1,450
Willamette U.	1,817	0	53	474	10	179	39	4	51	0	1,007
Pennsylvania	4,934,724	324,200	50,154	3,088,550	42,836	232,897	90,530	108,734	23,981	717,952	254,890
Public	2,429,460	90,819	45,349	1,502,954	19,813	136,045	59,519	44,639	13,325	446,408	70,589
Indiana U. Pennsylvania	6,180	165	33	1,890	4	364	490	303	0	0	2,931
Pennsylvania State U., Behrend	5,509	112	1,249	593	174	282	254	43	0	2,395	407
Pennsylvania State U., Harrisburg	2,938	2	22	1,536	4	0	444	258	0	386	286
Pennsylvania State U., University Park and Hershey Medical Center	970,544	73,737	31,930	291,733	14,090	89,035	29,685	27,130	0	378,667	34,537
Temple U.	299,778	6,327	2,108	223,136	2,547	17,979	11,427	7,649	548	8,279	19,778
U. Pittsburgh, Pittsburgh	1,135,416	10,455	9,952	983,251	2,891	27,919	16,966	4,070	12,637	56,681	10,594
U.S. Army War C.	4,662	0	0	0	0	0	0	4,662	0	0	0
West Chester U. Pennsylvania	4,433	21	55	815	103	466	253	524	140	0	2,056
Private	2,505,264	233,381	4,805	1,585,596	23,023	96,852	31,011	64,095	10,656	271,544	184,301
Arcadia U.	889	84	0	201	0	0	0	0	0	0	604
Bryn Mawr C.	8,987	356	151	709	599	1,119	327	1,542	0	0	4,184
Bucknell U.	4,476	114	10	674	110	816	129	126	663	1,494	340
Carnegie Mellon U.	402,376	196,380	364	14,273	12,464	21,109	10,631	12,392	6,330	112,597	15,836
Drexel U.	152,752	5,655	0	96,668	620	2,074	2,435	2,271	1,714	32,665	8,650
Duquesne U.	10,521	0	510	6,085	71	615	160	46	0	102	2,932
Franklin and Marshall C.	3,722	70	119	840	50	660	80	376	4	0	1,523
Haverford C.	3,835	39	145	647	28	2,342	77	146	0	0	411
Lafayette C.	1,015	76	5	94	24	286	88	85	0	201	156

TABLE 71

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2021

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Lehigh U.	41,279	2,514	1,087	5,271	140	3,642	398	212	19	25,835	2,161
Mercyhurst U.	1,937	76	42	1,428	20	134	22	86	0	0	129
Philadelphia C. of Osteopathic Medicine	6,186	0	0	6,131	0	0	55	0	0	0	0
Saint Joseph's U.	2,922	192	0	547	8	137	349	165	0	0	1,524
Swarthmore C.	3,296	16	0	824	136	891	110	194	51	174	900
Thomas Jefferson U.	200,393	0	0	200,309	0	0	0	0	0	55	29
U. of the Sciences Philadelphia	4,005	0	0	3,319	0	686	0	0	0	0	0
U. Pennsylvania	1,631,950	27,396	1,929	1,243,966	8,637	59,246	15,250	46,021	1,172	88,937	139,396
Villanova U.	24,723	413	443	3,610	116	3,095	900	433	703	9,484	5,526
Rhode Island	425,750	15,447	61,344	170,252	10,908	20,821	12,086	35,288	28,751	34,402	36,451
Public	145,828	463	52,469	30,141	5	3,648	3,337	2,224	19,636	10,766	23,139
Naval War C.	5,542	0	0	0	0	0	0	794	0	0	4,748
Rhode Island C.	10,990	24	0	1,157	0	320	115	13	0	0	9,361
U. Rhode Island	129,296	439	52,469	28,984	5	3,328	3,222	1,417	19,636	10,766	9,030
Private	279,922	14,984	8,875	140,111	10,903	17,173	8,749	33,064	9,115	23,636	13,312
Brown U.	276,331	14,984	7,954	139,126	10,903	17,072	8,598	32,799	9,115	23,587	12,193
Providence C.	766	0	144	442	0	99	35	18	0	17	11
Rhode Island School of Design	971	0	0	0	0	0	0	247	0	0	724
Roger Williams U.	1,854	0	777	543	0	2	116	0	0	32	384
South Carolina	753,287	12,167	12,284	433,407	3,506	20,848	10,630	24,937	1,300	128,750	105,458
Public	749,841	11,941	12,180	432,544	3,506	19,605	10,452	24,825	1,300	128,685	104,803
C. Charleston	6,361	322	1,156	1,370	61	983	36	48	1,061	72	1,252
Citadel Military C. South Carolina	2,054	1,033	0	108	8	76	16	6	0	250	557
Clemson U.	237,485	7,040	0	66,524	1,870	10,139	1,587	6,298	0	90,038	53,989
Coastal Carolina U.	2,245	91	1,415	386	0	88	7	0	7	68	183
Medical U. South Carolina	277,761	0	0	277,761	0	0	0	0	0	0	0
South Carolina State U.	3,933	108	0	1,416	0	1,000	0	0	0	712	697
U. South Carolina, Aiken	2,042	0	0	657	3	9	3	0	0	1,322	48



TABLE 71

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2021

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. South Carolina, Columbia	215,374	3,311	9,609	84,069	1,558	6,928	8,759	17,831	154	36,223	46,932
Winthrop U.	2,586	36	0	253	6	382	44	642	78	0	1,145
Private	3,446	226	104	863	0	1,243	178	112	0	65	655
Claflin U.	1,015	173	26	515	0	129	0	107	0	65	0
Furman U.	2,431	53	78	348	0	1,114	178	5	0	0	655
South Dakota	100,534	3,629	838	55,763	838	8,098	1,750	2,088	0	22,248	5,282
Public	99,521	3,629	838	55,217	838	7,641	1,750	2,088	0	22,248	5,272
Black Hills State U.	1,280	295	0	806	0	103	0	0	0	0	76
Dakota State U.	3,416	3,080	37	80	0	58	0	0	0	0	161
South Dakota School of Mines and Technology	15,746	48	0	0	216	1,824	0	0	0	13,658	0
South Dakota State U.	51,542	32	801	38,411	433	1,943	600	1,772	0	7,161	389
U. South Dakota	27,537	174	0	15,920	189	3,713	1,150	316	0	1,429	4,646
Private	1,013	0	0	546	0	457	0	0	0	0	10
Augustana U.	1,013	0	0	546	0	457	0	0	0	0	10
Tennessee	1,629,860	43,262	12,113	1,070,936	7,480	60,496	30,216	30,792	23,443	241,299	109,823
Public	590,106	24,621	10,252	247,172	5,748	28,774	14,469	22,246	23,344	154,555	58,925
Austin Peay State U.	2,740	1	611	1,404	1	50	0	0	16	0	657
East Tennessee State U.	18,449	4	26	13,835	50	240	3,057	46	0	138	1,053
Middle Tennessee State U.	22,531	1,000	126	4,048	1,187	2,967	652	3,668	0	592	8,291
Tennessee State U.	26,880	454	314	21,260	116	435	259	509	0	3,062	471
Tennessee Technological U.	15,387	2,581	24	2,510	0	879	80	87	0	8,455	771
U. Memphis	67,092	7,957	4,089	9,537	1,250	3,372	5,431	7,319	1,702	9,464	16,971
U. Tennessee, Chattanooga	11,192	899	0	878	206	22	246	21	3,530	3,578	1,812
U. Tennessee, Health Science Center	109,562	0	0	107,620	0	0	0	0	1,255	687	0
U. Tennessee, Knoxville	316,273	11,725	5,062	86,080	2,938	20,809	4,744	10,596	16,841	128,579	28,899
Private	1,039,754	18,641	1,861	823,764	1,732	31,722	15,747	8,546	99	86,744	50,898
Fisk U.	4,320	415	0	1,601	415	1,645	60	7	0	0	177
Lipscomb U.	321	0	0	0	0	0	0	0	99	203	19

TABLE 71

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2021

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Meharry Medical C.	15,840	0	0	15,840	0	0	0	0	0	0	0
Vanderbilt U. and Vanderbilt U. Medical Center	1,019,273	18,226	1,861	806,323	1,317	30,077	15,687	8,539	0	86,541	50,702
Texas	6,849,522	182,650	229,801	4,220,827	73,412	357,228	88,631	139,231	46,532	1,095,207	416,003
Public	5,800,026	168,474	216,222	3,470,619	62,722	304,155	77,334	115,644	28,908	976,808	379,140
Lamar U.	4,734	72	24	423	83	115	0	0	0	2,437	1,580
Prairie View A&M U.	17,582	188	0	8,187	81	1,348	292	17	67	4,687	2,715
Sam Houston State U.	13,315	26	124	2,688	444	503	631	1,970	0	36	6,893
Stephen F. Austin State U.	3,204	14	121	2,042	109	29	2	203	0	0	684
Sul Ross State U.	2,143	0	22	1,654	1	0	0	466	0	0	0
Tarleton State U.	17,729	395	3,745	7,521	342	359	368	778	1,014	166	3,041
Texas A&M International U.	3,740	0	39	216	91	154	53	914	628	241	1,404
Texas A&M U., College Station and Health Science Center	1,147,720	19,178	106,932	487,219	6,729	56,029	6,546	28,965	10,943	385,656	39,523
Texas A&M U.-Commerce	3,827	61	0	587	34	995	191	99	0	64	1,796
Texas A&M U.-Corpus Christi	30,500	313	12,296	5,422	6	1,089	0	464	890	6,590	3,430
Texas A&M U.-Kingsville	23,578	12	0	16,283	0	213	51	0	99	4,622	2,298
Texas Southern U.	9,128	136	79	5,033	167	1,168	425	845	0	27	1,248
Texas State U.	72,510	1,200	7,338	11,708	1,057	3,421	272	4,437	1,759	9,321	31,997
Texas Tech U.	197,739	4,274	9,282	55,930	3,678	15,784	8,762	11,235	0	41,962	46,832
Texas Tech U., Health Sciences Center	41,583	0	0	40,567	0	0	0	0	0	0	1,016
Texas Tech U., Health Sciences Center, El Paso	11,360	0	0	10,555	0	0	0	0	0	0	805
Texas Woman's U.	4,943	11	0	3,053	1	7	695	83	0	0	1,093
U. Houston	202,536	4,352	9,292	34,322	3,497	52,230	13,601	2,404	1,590	56,555	24,693
U. Houston-Clear Lake	1,716	34	0	942	0	236	136	51	0	0	317
U. Houston-Downtown	1,828	194	52	25	19	382	0	128	5	189	834
U. North Texas, Denton	81,252	7,269	1,879	13,582	237	8,710	2,719	4,057	0	18,285	24,514

TABLE 71

**Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. North Texas, Health Science Center	50,698	0	0	50,692	0	0	0	6	0	0	0
U. Texas Health Science Center, Houston	308,823	0	0	308,823	0	0	0	0	0	0	0
U. Texas Health Science Center, San Antonio	219,734	0	0	219,734	0	0	0	0	0	0	0
U. Texas Health Science Center, Tyler	27,928	0	0	27,928	0	0	0	0	0	0	0
U. Texas M. D. Anderson Cancer Center	1,124,971	0	0	1,056,727	18,914	17,572	17,939	13,819	0	0	0
U. Texas Medical Branch	185,759	0	0	184,500	0	0	0	0	0	1,259	0
U. Texas of the Permian Basin	3,504	0	0	983	0	30	23	380	60	792	1,236
U. Texas Rio Grande Valley	58,187	1,581	1,649	28,556	2,194	4,338	1,181	3,534	63	5,354	9,737
U. Texas Southwestern Medical Center	632,134	0	0	632,134	0	0	0	0	0	0	0
U. Texas, Arlington	126,477	6,865	867	19,246	2,350	16,864	1,568	79	0	58,154	20,484
U. Texas, Austin	779,348	87,595	54,009	148,471	17,349	85,250	10,293	23,660	2,806	279,730	70,185
U. Texas, Dallas	122,825	8,945	598	27,495	1,363	16,444	4,130	2,666	672	50,646	9,866
U. Texas, El Paso	109,410	6,234	3,757	23,452	2,412	9,092	4,407	4,964	5,975	26,599	22,518
U. Texas, San Antonio	145,362	19,203	3,429	26,419	1,554	11,547	2,835	9,393	2,153	21,499	47,330
U. Texas, Tyler	2,279	21	0	1,260	9	46	214	27	0	537	165
West Texas A&M U.	9,920	301	688	6,240	1	200	0	0	184	1,400	906
Private	1,049,496	14,176	13,579	750,208	10,690	53,073	11,297	23,587	17,624	118,399	36,863
Abilene Christian U.	4,597	0	0	101	0	4,209	21	11	25	45	185
Baylor C. of Medicine	716,976	0	0	716,976	0	0	0	0	0	0	0
Baylor U.	48,809	1,148	2,731	11,299	877	8,289	3,692	1,420	5,390	7,241	6,722
Rice U.	207,404	11,623	4,786	15,766	7,349	33,015	5,772	21,092	528	100,872	6,601
Southern Methodist U.	41,960	205	5,367	2,221	1,736	4,598	1,273	529	97	9,972	15,962
St. Edward's U.	9,527	1,050	478	1,445	645	1,101	20	50	0	0	4,738
Texas Christian U.	15,336	86	121	570	0	398	206	74	11,584	36	2,261
Trinity U.	2,905	64	96	461	41	1,165	313	411	0	47	307
U. of the Incarnate Word	1,982	0	0	1,369	42	298	0	0	0	186	87
Utah	993,876	37,414	50,023	486,668	4,911	41,909	12,968	9,598	0	315,719	34,666

TABLE 71

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2021

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Public	949,960	36,485	49,170	477,008	4,428	35,552	12,586	8,671	0	295,557	30,503
U. Utah	624,737	33,446	47,024	420,965	3,708	30,441	7,255	6,254	0	48,225	27,419
Utah State U.	325,223	3,039	2,146	56,043	720	5,111	5,331	2,417	0	247,332	3,084
Private	43,916	929	853	9,660	483	6,357	382	927	0	20,162	4,163
Brigham Young U., Provo	43,916	929	853	9,660	483	6,357	382	927	0	20,162	4,163
Vermont	198,247	3,219	3,662	143,639	3,215	5,002	3,875	6,405	4,303	11,914	13,013
Public	195,320	2,978	3,237	142,622	3,153	4,354	3,694	6,052	4,303	11,914	13,013
U. Vermont	195,320	2,978	3,237	142,622	3,153	4,354	3,694	6,052	4,303	11,914	13,013
Private	2,927	241	425	1,017	62	648	181	353	0	0	0
Middlebury C.	2,927	241	425	1,017	62	648	181	353	0	0	0
Virginia	1,942,260	91,800	64,147	949,659	15,710	80,256	28,981	96,499	3,885	421,657	189,666
Public	1,918,424	90,151	61,048	939,458	15,252	76,305	28,538	94,874	3,885	420,622	188,291
Christopher Newport U.	2,656	0	0	536	180	731	54	216	0	656	283
Eastern Virginia Medical School	19,415	0	0	19,415	0	0	0	0	0	0	0
George Mason U.	214,207	24,420	12,577	47,800	2,493	4,786	3,029	48,250	24	49,826	21,002
James Madison U.	14,687	845	628	3,372	345	1,825	1,345	150	3	174	6,000
Norfolk State U.	4,316	1,957	0	88	29	763	0	58	0	1,413	8
Old Dominion U.	62,332	2,693	3,775	15,041	1,097	7,021	1,381	1,659	0	25,811	3,854
U. of Mary Washington	1,123	82	54	155	5	100	0	40	0	0	687
U. Virginia's C. Wise	3,310	1,174	0	125	0	20	0	27	0	0	1,964
U. Virginia, Charlottesville	611,313	24,669	5,356	402,376	1,710	27,304	7,565	18,063	2,389	62,271	59,610
Virginia Commonwealth U.	364,096	6,270	278	233,486	698	3,396	10,533	4,959	0	32,233	72,243
Virginia Polytechnic Institute and State U.	542,045	25,466	3,534	207,204	8,107	24,374	4,169	11,574	89	246,965	10,563
Virginia State U.	10,123	0	8	7,191	217	0	95	0	0	1,273	1,339
William & Mary	68,801	2,575	34,838	2,669	371	5,985	367	9,878	1,380	0	10,738
Private	23,836	1,649	3,099	10,201	458	3,951	443	1,625	0	1,035	1,375
Edward Via C. of Osteopathic Medicine	6,629	0	0	6,629	0	0	0	0	0	0	0
Hampton U.	11,669	994	2,881	1,685	344	3,409	0	1,041	0	827	488
Liberty U.	937	0	0	497	0	0	0	17	0	208	215
Marymount U.	2,307	655	0	624	0	88	89	356	0	0	495

TABLE 71

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2021

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Richmond	2,294	0	218	766	114	454	354	211	0	0	177
Washington	1,881,044	36,260	146,004	1,226,993	6,976	88,226	17,810	32,309	2,312	206,997	117,157
Public	1,879,482	36,260	145,950	1,226,960	6,883	88,140	17,805	32,133	2,312	206,935	116,104
Central Washington U.	2,410	202	1,204	380	169	285	0	88	0	72	10
Eastern Washington U.	1,921	0	61	436	1	63	39	1,318	0	0	3
Northwest Indian C.	2,806 i	1 i	1,084 i	108 i	0 i	0 i	0 i	1,096 i	0 i	0 i	517 i
U. Washington, Bothell	8,311	188	405	668	0	681	0	0	0	304	6,065
U. Washington, Seattle	1,488,645	26,869	128,033	1,013,261	5,778	58,664	11,269	13,491	0	157,622	73,658
U. Washington, Tacoma	4,291	224	2,838	281	25	0	0	175	0	319	429
Washington State U.	357,648	8,393	8,946	211,107	535	26,256	5,000	15,147	1,216	48,031	33,017
Western Washington U.	13,450	383	3,379	719	375	2,191	1,497	818	1,096	587	2,405
Private	1,562	0	54	33	93	86	5	176	0	62	1,053
Seattle U.	1,562	0	54	33	93	86	5	176	0	62	1,053
West Virginia	231,347	2,260	4,369	150,871	579	12,726	2,307	3,684	1,063	42,330	11,158
Public	231,347	2,260	4,369	150,871	579	12,726	2,307	3,684	1,063	42,330	11,158
Marshall U.	23,620	79	404	18,296	0	295	3	3	0	2,475	2,065
West Virginia School of Osteopathic Medicine	1,255	0	0	1,245	0	0	0	0	0	0	10
West Virginia State U.	6,565	2	0	6,436	0	0	0	0	0	0	127
West Virginia U.	199,907	2,179	3,965	124,894	579	12,431	2,304	3,681	1,063	39,855	8,956
Wisconsin	1,771,499	25,578	73,951	1,162,752	8,471	104,625	16,378	71,933	46,532	161,124	100,155
Public	1,453,273	24,092	73,873	880,598	7,321	100,705	15,092	71,430	46,532	141,408	92,222
U. Wisconsin-Eau Claire	1,852	0	69	232	102	1,041	245	88	0	0	75
U. Wisconsin-Green Bay	1,879	56 i	82 i	1,065 i	15 i	112 i	31 i	64 i	0 i	327 i	127 i
U. Wisconsin-La Crosse	3,001	42	18	681	84	476	7	1,487	52	0	154
U. Wisconsin-Madison	1,380,075	23,678	65,814	861,558	6,394	87,587	10,944	63,043	44,157	131,709	85,191
U. Wisconsin-Milwaukee	55,664	193	7,385	9,109	707	10,970	3,800	6,531	2,309	8,577	6,083
U. Wisconsin-Oshkosh	1,656	0	126	740	0	292	41	75	0	158	224
U. Wisconsin-Platteville	1,144 i	37 i	0 i	514 i	19 i	82 i	20 i	93 i	14 i	171 i	194 i
U. Wisconsin-River Falls	999	86	0	645	0	84	4	0	0	18	162
U. Wisconsin-Stevens Point	4,401	0	368	3,716	0	61	0	7	0	241	8
U. Wisconsin-Superior	2,602	0	11	2,338	0	0	0	42	0	207	4

TABLE 71

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2021

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Private	318,226	1,486	78	282,154	1,150	3,920	1,286	503	0	19,716	7,933
Marquette U.	37,087	1,439	0	12,236	1,110	3,903	1,223	431	0	9,027	7,718
Medical C. Wisconsin	276,850	0	0	269,290	0	0	0	0	0	7,560	0
Milwaukee School of Engineering	3,193	47	0	0	0	17	0	0	0	3,129	0
Northland C.	1,096 i	0 i	78 i	628 i	40 i	0 i	63 i	72 i	0 i	0 i	215 i
Wyoming	93,202	1,580	11,251	43,538	1,306	1,808	412	1,086	6,574	24,675	972
Public	93,202	1,580	11,251	43,538	1,306	1,808	412	1,086	6,574	24,675	972
U. Wyoming	93,202	1,580	11,251	43,538	1,306	1,808	412	1,086	6,574	24,675	972
American Samoa	815	0	0	0	0	0	0	815	0	0	0
Public	815	0	0	0	0	0	0	815	0	0	0
American Samoa Community C.	815	0	0	0	0	0	0	815	0	0	0
Guam	17,666	0	5,047	11,783	87	86	0	205	4	0	454
Public	17,666	0	5,047	11,783	87	86	0	205	4	0	454
U. Guam	17,666	0	5,047	11,783	87	86	0	205	4	0	454
Puerto Rico	123,707	604	5,705	76,665	279	7,240	1,872	1,449	5,113	13,583	11,197
Public	94,577	604	5,705	50,532	265	7,098	117	1,449	5,113	12,549	11,145
U. Puerto Rico, Cayey	1,881	0	0	563	0	127	0	171	1,020	0	0
U. Puerto Rico, Humacao	1,321	0	17	111	0	1,083	110	0	0	0	0
U. Puerto Rico, Mayaguez	18,368	0	2,014	1,729	87	1,002	0	93	0	11,397	2,046
U. Puerto Rico, Medical Sciences Campus	44,111	0	265	43,846	0	0	0	0	0	0	0
U. Puerto Rico, Rio Piedras	28,896	604	3,409	4,283	178	4,886	7	1,185	4,093	1,152	9,099
Private	29,130	0	0	26,133	14	142	1,755	0	0	1,034	52
Albizu U.	428	0	0	0	0	0	428	0	0	0	0
Ponce Health Sciences U.	23,297	0	0	22,009	0	0	1,288	0	0	0	0
U. Ana G. Mendez, Gurabo	1,574	0	0	293	14	142	39	0	0	1,034	52
U. Central del Caribe	3,831	0	0	3,831	0	0	0	0	0	0	0
Virgin Islands	15,231	90	6,508	6,045	439	1,069	0	248	0	832	0
Public	15,231	90	6,508	6,045	439	1,069	0	248	0	832	0
U. of the Virgin Islands	15,231	90	6,508	6,045	439	1,069	0	248	0	832	0

i = imputed.

nec = not elsewhere classified; S&E = science and engineering.

<sup>a</sup> The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

<sup>b</sup> The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

<sup>c</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

<sup>d</sup> Johns Hopkins University includes the Applied Physics Laboratory, with \$1,949,752 thousand in total R&D expenditures in FY 2021.

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2021.

TABLE 72

**Higher education R&D expenditures at institutions with a medical school, by state, institutional control, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Medical school R&D expenditures
Alabama		
Public		
U. Alabama, Birmingham	644,330	460,741
U. South Alabama	47,610	23,869
Arizona		
Public		
U. Arizona	770,031	261,081
Arkansas		
Public		
U. Arkansas for Medical Sciences	194,709	194,708
California		
Public		
U. California, Davis	817,409	225,347
U. California, Irvine	523,752	182,213
U. California, Los Angeles	1,454,880	936,434
U. California, Riverside	189,600	15,470
U. California, San Diego	1,425,499	574,570
U. California, San Francisco	1,710,036	1,486,618
Private		
Charles R. Drew U. of Medicine and Science <sup>a</sup>	13,228	1,706
Loma Linda U.	14,029	11,962
Stanford U.	1,274,483	874,048
Touro U.	3,489	1,121
U. Southern California	955,565	526,791
Western U. of Health Sciences	6,688	1,128
Colorado		
Public		
U. Colorado Anschutz Medical Campus <sup>b</sup>	562,855	396,106
Connecticut		
Public		
U. Connecticut	302,329	112,221
Private		
Yale U.	1,165,148	964,412
District of Columbia		
Private		
George Washington U.	266,108	61,311
Georgetown U.	279,932	175,749
Howard U.	52,412	18,340
Florida		
Public		
Florida Atlantic U.	58,471	7,629
Florida International U.	246,075	15,978
Florida State U.	328,604	25,944
U. Central Florida	218,596	6,331
U. Florida	959,965	413,416
U. South Florida <sup>c</sup>	405,088	156,108
Private		
Nova Southeastern U.	24,513	11,537
U. Miami	375,841	295,865
Georgia		



TABLE 72

**Higher education R&D expenditures at institutions with a medical school, by state, institutional control, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Medical school R&D expenditures
Public		
Augusta U.	116,480	108,454
Private		
Emory U.	852,922	542,947
Mercer U.	51,989	5,639
Morehouse School of Medicine	32,637	32,637
Hawaii		
Public		
U. Hawaii, Manoa	271,768	30,580
Illinois		
Public		
Southern Illinois U., Carbondale	47,210	18,340
U. Illinois, Chicago	429,585	208,133
U. Illinois, Urbana-Champaign	731,268	291
Private		
Loyola U., Chicago	44,036	36,453
Midwestern U.	10,961	5,966
Northwestern U.	913,178	688,103
Rosalind Franklin U. of Medicine and Science	13,805	12,119
Rush U.	107,398	103,591
U. Chicago	497,651	337,673
Indiana		
Public		
Indiana U., Bloomington	695,258	458,446
Iowa		
Public		
U. Iowa	553,876	316,951
Private		
Des Moines U.	5,258 i	756 i
Kansas		
Public		
U. Kansas	385,637	159,256
Kentucky		
Public		
U. Kentucky	429,241	168,976
U. Louisville	200,362	135,711
Louisiana		
Public		
Louisiana State U., Health Sciences Center, New Orleans	44,370	39,299
Louisiana State U., Health Sciences Center, Shreveport	24,600	24,600
Private		
Tulane U.	205,206	78,702
Maine		
Private		
U. New England	6,234	1,246
Maryland		
Public		
U. Maryland <sup>d</sup>	1,142,264	471,849
Uniformed Services U. of the Health Sciences	384,490	293,540
Private		

TABLE 72

**Higher education R&D expenditures at institutions with a medical school, by state, institutional control, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Medical school R&D expenditures
Johns Hopkins U. <sup>e</sup>	3,181,385	754,413
Massachusetts		
Public		
U. Massachusetts, Medical School	347,337	347,337
Private		
Boston U.	652,096	193,605
Harvard U.	1,254,008	399,656
Tufts U.	224,956	49,379
Michigan		
Public		
Central Michigan U.	21,726	10,493
Michigan State U.	710,178	85,501
Oakland U.	20,261	47
U. Michigan, Ann Arbor	1,639,645	660,061
Wayne State U.	235,519	158,775
Western Michigan U. and Homer Stryker M.D. School of Medicine	25,314	5,375
Minnesota		
Public		
U. Minnesota, Twin Cities	1,072,961	344,702
Mississippi		
Public		
U. Mississippi	116,175	51,429
Missouri		
Public		
U. Missouri, Columbia	388,779	60,196
U. Missouri, Kansas City	33,855	7,334
Private		
Saint Louis U.	79,005	38,745
Washington U., Saint Louis	989,214	878,809
Nebraska		
Public		
U. Nebraska, Medical Center	200,974	121,542
Private		
Creighton U.	23,251	15,709
Nevada		
Public		
U. Nevada, Las Vegas	101,009	7,516
U. Nevada, Reno	175,386	36,445
New Hampshire		
Private		
Dartmouth C. and Dartmouth Hitchcock Medical Center	330,226	149,441
New Jersey		
Public		
Rowan U.	26,458	10,809
Rutgers, State U. New Jersey, New Brunswick	643,955	315,754
New Mexico		
Public		
U. New Mexico	332,566	189,939
New York		
Public		

TABLE 72

**Higher education R&D expenditures at institutions with a medical school, by state, institutional control, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Medical school R&D expenditures
CUNY, City C.	57,361	3,870
SUNY, Downstate Health Sciences U.	34,459	33,555
SUNY, Stony Brook U.	274,516	125,081
SUNY, U. Buffalo	425,349	173,934
SUNY, Upstate Medical U.	44,870	35,677
Private		
Albany Medical C.	22,443	22,443
Albert Einstein C. of Medicine	301,715	301,714
Columbia U. in the City of New York	1,098,570	588,930
Cornell U.	1,183,524	512,076
Hofstra U.	5,545	268
Icahn School of Medicine at Mount Sinai	820,260	820,260
New York Institute of Technology	4,465	2,858
New York Medical C.	18,872	17,098
New York U.	1,063,704	703,546
U. Rochester	409,255	255,944
North Carolina		
Public		
East Carolina U.	51,662	16,284
U. North Carolina, Chapel Hill	1,205,883	700,242
Private		
Duke U.	1,237,686	1,001,689
Wake Forest U.	264,216	250,219
North Dakota		
Public		
U. North Dakota	143,506	26,108
Ohio		
Public		
Northeast Ohio Medical U.	13,853	12,612
Ohio State U.	1,236,111	715,150
Ohio U.	49,764	10,228
U. Cincinnati	551,826	443,667
U. Toledo	53,169	18,512
Wright State U.	26,259	9,192
Private		
Case Western Reserve U.	421,868	347,262
Oklahoma		
Public		
Oklahoma State U., Center for Health Sciences	7,758	7,758
U. Oklahoma, Norman and Health Science Center	380,048	125,288
U. Oklahoma, Tulsa	7,185	2,095
Oregon		
Public		
Oregon Health and Science U.	452,812	266,062
Pennsylvania		
Public		
Pennsylvania State U., University Park and Hershey Medical Center	970,544	127,567
Temple U.	299,778	107,003
U. Pittsburgh, Pittsburgh	1,135,416	833,234
Private		

TABLE 72

**Higher education R&D expenditures at institutions with a medical school, by state, institutional control, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Medical school R&D expenditures
Drexel U.	152,752	48,776
Philadelphia C. of Osteopathic Medicine	6,186	3,349
Thomas Jefferson U.	200,393	182,868
U. Pennsylvania	1,631,950	1,101,897
Rhode Island		
Private		
Brown U.	276,331	146,373
South Carolina		
Public		
Medical U. South Carolina	277,761	230,972
U. South Carolina, Columbia	215,374	20,076
South Dakota		
Public		
U. South Dakota	27,537	8,732
Tennessee		
Public		
East Tennessee State U.	18,449	9,231
U. Tennessee, Health Science Center	109,562	109,562
Private		
Meharry Medical C.	15,840	13,870
Vanderbilt U. and Vanderbilt U. Medical Center	1,019,273	527,414
Texas		
Public		
Sam Houston State U.	13,315	369
Texas A&M U., College Station and Health Science Center	1,147,720	43,498
Texas Tech U., Health Sciences Center	41,583	26,239
Texas Tech U., Health Sciences Center, El Paso	11,360	9,238
U. Houston	202,536	715
U. North Texas, Health Science Center	50,698	3,809
U. Texas Health Science Center, Houston	308,823	175,096
U. Texas Health Science Center, San Antonio	219,734	174,351
U. Texas Medical Branch	185,759	178,201
U. Texas Rio Grande Valley	58,187	22,814
U. Texas Southwestern Medical Center	632,134	626,614
U. Texas, Austin	779,348	36,493
Private		
Baylor C. of Medicine	716,976	716,976
Texas Christian U.	15,336	51
U. of the Incarnate Word	1,982	585
Utah		
Public		
U. Utah	624,737	217,758
Vermont		
Public		
U. Vermont	195,320	103,813
Virginia		
Public		
Eastern Virginia Medical School	19,415	19,219
U. Virginia, Charlottesville	611,313	312,818
Virginia Commonwealth U.	364,096	193,979

TABLE 72

**Higher education R&D expenditures at institutions with a medical school, by state, institutional control, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Medical school R&D expenditures
Virginia Polytechnic Institute and State U.	542,045	0
Private		
Edward Via C. of Osteopathic Medicine	6,629	6,629
Liberty U.	937	206
Washington		
Public		
U. Washington, Seattle	1,488,645	763,365
Washington State U.	357,648	9,470
West Virginia		
Public		
Marshall U.	23,620	14,736
West Virginia School of Osteopathic Medicine	1,255	1,255
West Virginia U.	199,907	52,177
Wisconsin		
Public		
U. Wisconsin-Madison	1,380,075	479,404
Private		
Medical C. Wisconsin	276,850	276,843
Puerto Rico		
Public		
U. Puerto Rico, Medical Sciences Campus	44,111	13,690
Private		
Ponce Health Sciences U.	23,297	20,825
U. Central del Caribe	3,831	3,831

i = imputed.

<sup>a</sup> MD degrees are granted by the University of California, Los Angeles (UCLA) through the Drew/UCLA Medical Education program, a partnership between the Charles R. Drew University of Medicine and Science and the UCLA, David Geffen School of Medicine.

<sup>b</sup> The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

<sup>c</sup> The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

<sup>d</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

<sup>e</sup> Johns Hopkins University includes the Applied Physics Laboratory, with \$1,949,752 thousand in total R&D expenditures in FY 2021.

**Note(s):**

The source for medical schools is institution response to survey question 4.

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2021.

TABLE 73

**Higher education R&D expenditures at institutions reporting clinical trials, by state, institutional control, institution, and source of funds: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	Total		Federal		Nonfederal	
	All R&D expenditures	Clinical trials	All R&D expenditures	Clinical trials	All R&D expenditures	Clinical trials
Alabama						
Public						
U. Alabama, Birmingham	644,330	60,384	423,290	25,731	221,040	34,653
U. Alabama, Tuscaloosa	129,509	1,271	53,880	1,134	75,629	137
U. South Alabama	47,610	1,260	23,758	97	23,852	1,163
Arizona						
Public						
Northern Arizona U.	69,129	718	41,744	668	27,385	50
U. Arizona	770,031	11,797	353,117	922	416,914	10,875
Arkansas						
Public						
U. Arkansas for Medical Sciences	194,709	2,752	83,387	87	111,322	2,665
California						
Public						
California Polytechnic State U., San Luis Obispo	25,953	1,345	11,163	1,177	14,790	168
California State U., San Marcos	10,213	35	8,831	35	1,382	0
San Francisco State U.	35,768	1	15,993	1	19,775	0
U. California, Berkeley	846,872	422	354,478	60	492,394	362
U. California, Davis	817,409	20,041	373,719	2,204	443,690	17,837
U. California, Irvine	523,752	21,692	255,010	4,547	268,742	17,145
U. California, Los Angeles	1,454,880	153,510	721,043	108,061	733,837	45,449
U. California, Riverside	189,600	5	97,182	0	92,418	5
U. California, San Diego	1,425,499	5,199	801,117	1,094	624,382	4,105
U. California, San Francisco	1,710,036	67,229	683,179	28,216	1,026,857	39,013
Private						
Chapman U.	25,820	1	8,574	0	17,246	1
Charles R. Drew U. of Medicine and Science	13,228	755	9,945	678	3,283	77
Loma Linda U.	14,029	1,571	10,116	230	3,913	1,341
Stanford U.	1,274,483	132,320	811,183	59,409	463,300	72,911
Touro U.	3,489	671	1,377	651	2,112	20
U. San Diego	7,580	16	2,554	16	5,026	0
U. Southern California	955,565	88,909	574,185	68,733	381,380	20,176
Western U. of Health Sciences	6,688	34	5,620	0	1,068	34
Colorado						

TABLE 73

**Higher education R&D expenditures at institutions reporting clinical trials, by state, institutional control, institution, and source of funds: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	Total		Federal		Nonfederal	
	All R&D expenditures	Clinical trials	All R&D expenditures	Clinical trials	All R&D expenditures	Clinical trials
Public						
U. Colorado Anschutz Medical Campus <sup>a</sup>	562,855	46,929	363,999	3,136	198,856	43,793
Private						
U. Denver	38,751	87	23,415	87	15,336	0
Connecticut						
Public						
Southern Connecticut State U.	5,750	6	713	6	5,037	0
U. Connecticut	302,329	6,943	183,362	4,685	118,967	2,258
Private						
Yale U.	1,165,148	29,019	647,656	0	517,492	29,019
Delaware						
Public						
U. Delaware	231,532	3,224	157,725	3,224	73,807	0
District of Columbia						
Private						
George Washington U.	266,108	10,228	161,349	7,520	104,759	2,708
Georgetown U.	279,932	14,350	130,419	22	149,513	14,328
Howard U.	52,412	533	35,443	35	16,969	498
Florida						
Public						
Florida Atlantic U.	58,471	298	28,510	0	29,961	298
Florida International U.	246,075	9,701	105,309	7,581	140,766	2,120
Florida State U.	328,604	3,736	150,108	3,065	178,496	671
U. Central Florida	218,596	2,661	109,310	2,541	109,286	120
U. Florida	959,965	41,833	423,154	13,567	536,811	28,266
U. South Florida <sup>b</sup>	405,088	14,835	185,364	710	219,724	14,125
U. West Florida	36,837	8	13,313	0	23,524	8
Private						
Nova Southeastern U.	24,513	151	10,386	0	14,127	151
U. Miami	375,841	42,309	231,001	11,706	144,840	30,603
Georgia						
Public						
Augusta U.	116,480	3,461	61,943	34	54,537	3,427

TABLE 73

**Higher education R&D expenditures at institutions reporting clinical trials, by state, institutional control, institution, and source of funds: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	Total		Federal		Nonfederal	
	All R&D expenditures	Clinical trials	All R&D expenditures	Clinical trials	All R&D expenditures	Clinical trials
U. Georgia	493,944	904	188,451	678	305,493	226
Private						
Emory U.	852,922	64,329	515,940	13,642	336,982	50,687
Mercer U.	51,989	418	34,413	56	17,576	362
Morehouse School of Medicine	32,637	74	25,181	0	7,456	74
Hawaii						
Public						
U. Hawaii, Manoa	271,768	108	157,772	51	113,996	57
Illinois						
Public						
Southern Illinois U., Carbondale	47,210	1,466	12,655	0	34,555	1,466
U. Illinois, Chicago	429,585	21,977	237,949	17,534	191,636	4,443
U. Illinois, Urbana-Champaign	731,268	331	406,612	328	324,656	3
Private						
Loyola U., Chicago	44,036	3,473	26,793	177	17,243	3,296
Midwestern U.	10,961	41	1,506	0	9,455	41
Northwestern U.	913,178	54,086	572,975	19,787	340,203	34,299
Rosalind Franklin U. of Medicine and Science	13,805	45	9,357	0	4,448	45
Rush U.	107,398	20,353	73,279	6,593	34,119	13,760
U. Chicago	497,651	32,310	394,275	183	103,376	32,127
Indiana						
Public						
Ball State U.	8,826	409	2,469	409	6,357	0
Indiana U., Bloomington	695,258	48,828	326,326	20,744	368,932	28,084
Indiana U.-Purdue U., Indianapolis	65,330	4,187	30,290	2,932	35,040	1,255
Iowa						
Public						
U. Iowa	553,876	17,013	283,763	0	270,113	17,013
Private						
Des Moines U.	5,258	4	485	0	4,773	4
Palmer C. of Chiropractic, Davenport	2,233	2,000	1,733	1,500	500	500
Kansas						
Public						
U. Kansas	385,637	13,249	187,249	1,411	198,388	11,838



TABLE 73

**Higher education R&D expenditures at institutions reporting clinical trials, by state, institutional control, institution, and source of funds: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	Total		Federal		Nonfederal	
	All R&D expenditures	Clinical trials	All R&D expenditures	Clinical trials	All R&D expenditures	Clinical trials
Kentucky						
Public						
U. Kentucky	429,241	10,955	220,703	5,335	208,538	5,620
U. Louisville	200,362	8,263	97,179	2,673	103,183	5,590
Louisiana						
Public						
Louisiana State U., Baton Rouge	296,673	15,042	103,178	10,871	193,495	4,171
Louisiana State U., Health Sciences Center, New Orleans	44,370	849	34,272	23	10,098	826
Louisiana State U., Health Sciences Center, Shreveport	24,600	209	12,359	82	12,241	127
Private						
Tulane U.	205,206	6,796	113,819	177	91,387	6,619
Maine						
Private						
U. New England	6,234	97	3,864	97	2,370	0
Maryland						
Public						
Towson U.	3,794	11	1,758	11	2,036	0
U. Maryland <sup>c</sup>	1,142,264	35,658	713,283	5,564	428,981	30,094
Private						
Johns Hopkins U. <sup>d</sup>	3,181,385	40,085	2,774,643	463	406,742	39,622
Massachusetts						
Public						
U. Massachusetts, Medical School	347,337	5,588	248,873	154	98,464	5,434
Private						
Boston C.	65,156	675	34,257	675	30,899	0
Boston U.	652,096	2,121	402,443	200	249,653	1,921
Harvard U.	1,254,008	48,595	616,589	42,294	637,419	6,301
New England C. of Optometry	1,978	676	1,623	577	355	99
Tufts U.	224,956	1,576	166,809	688	58,147	888
Michigan						
Public						
Central Michigan U.	21,726	201	6,919	112	14,807	89
Grand Valley State U.	6,809	482	1,415	482	5,394	0

TABLE 73

**Higher education R&D expenditures at institutions reporting clinical trials, by state, institutional control, institution, and source of funds: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	Total		Federal		Nonfederal	
	All R&D expenditures	Clinical trials	All R&D expenditures	Clinical trials	All R&D expenditures	Clinical trials
Michigan State U.	710,178	2,330	349,889	1,773	360,289	557
Michigan Technological U.	81,715	38	41,505	37	40,210	1
U. Michigan, Ann Arbor	1,639,645	34,916	891,125	3,728	748,520	31,188
U. Michigan, Flint	752	23	113	23	639	0
Wayne State U.	235,519	14,679	117,976	1,138	117,543	13,541
Western Michigan U. and Homer Stryker M.D. School of Medicine	25,314	296	13,944	0	11,370	296
Minnesota						
Public						
U. Minnesota, Twin Cities	1,072,961	63,194	570,946	43,345	502,015	19,849
Mississippi						
Public						
U. Mississippi	116,175	4,856	76,886	4,132	39,289	724
Missouri						
Public						
U. Missouri, Columbia	388,779	3,252	163,576	1,079	225,203	2,173
U. Missouri, Kansas City	33,855	319	21,203	123	12,652	196
Private						
Saint Louis U.	79,005	2,153	41,411	245	37,594	1,908
Washington U., Saint Louis	989,214	25,405	606,127	9,294 i	383,087	16,111 i
Montana						
Public						
Montana State U., Bozeman	193,577	1,090	113,257	1,070	80,320	20
Nebraska						
Public						
U. Nebraska, Kearney	3,201	206	1,327	206	1,874	0
U. Nebraska, Lincoln	307,083	2,141	106,564	2,066	200,519	75
U. Nebraska, Medical Center	200,974	14,872	111,042	10,066	89,932	4,806
Private						
Creighton U.	23,251	1,800 i	8,585	573 i	14,666	1,227 i
Nevada						
Public						
U. Nevada, Reno	175,386	652	77,246	582	98,140	70
Private						
Roseman U. of Health Sciences	5,985	91	53	0	5,932	91

TABLE 73

**Higher education R&D expenditures at institutions reporting clinical trials, by state, institutional control, institution, and source of funds: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	Total		Federal		Nonfederal	
	All R&D expenditures	Clinical trials	All R&D expenditures	Clinical trials	All R&D expenditures	Clinical trials
New Hampshire						
Private						
Dartmouth C. and Dartmouth Hitchcock Medical Center	330,226	19,297	152,335	13,617	177,891	5,680
New Jersey						
Public						
Rutgers, State U. New Jersey, New Brunswick	643,955	17,663	339,015	7,044	304,940	10,619
New Mexico						
Public						
New Mexico State U.	110,580	198	64,699	198	45,881	0
U. New Mexico	332,566	6,747	242,212	4,611	90,354	2,136
New York						
Public						
CUNY, C. Staten Island	2,860	686	2,234	502	626	184
CUNY, Graduate School of Public Health and Health Policy	15,035	371	12,254	371	2,781	0
SUNY, C. of Optometry	3,460	905	2,105	6	1,355	899
SUNY, Downstate Health Sciences U.	34,459	608	27,620	253	6,839	355
SUNY, Stony Brook U.	274,516	6,291	162,972	3,948	111,544	2,343
SUNY, U. Buffalo	425,349	7,359	210,257	600	215,092	6,759
SUNY, Upstate Medical U.	44,870	5,313	24,974	729	19,896	4,584
Private						
Albany Medical C.	22,443	3,766	13,166	65	9,277	3,701
Albert Einstein C. of Medicine	301,715	88	214,619	88	87,096	0
Columbia U. in the City of New York	1,098,570	85,181	831,648	37,130	266,922	48,051
Cornell U.	1,183,524	14,318	592,359	6,629	591,165	7,689
Icahn School of Medicine at Mount Sinai	820,260	93,524	554,582	41,863	265,678	51,661
Ithaca C.	1,030	78	685	78	345	0
New York Medical C.	18,872	4,176	10,739	1,707	8,133	2,469
New York U.	1,063,704	35,984	547,027	4,962	516,677	31,022
Rockefeller U.	357,543	200	96,318	47	261,225	153
Syracuse U.	151,717	267	34,200	266	117,517	1
U. Rochester	409,255	42,848	309,647	12,711	99,608	30,137
North Carolina						
Public						
East Carolina U.	51,662	2,920	22,813	156	28,849	2,764

TABLE 73

**Higher education R&D expenditures at institutions reporting clinical trials, by state, institutional control, institution, and source of funds: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	Total		Federal		Nonfederal	
	All R&D expenditures	Clinical trials	All R&D expenditures	Clinical trials	All R&D expenditures	Clinical trials
U. North Carolina, Chapel Hill	1,205,883	42,681	747,895	8,795	457,988	33,886
U. North Carolina, Greensboro	37,033	1,344	24,423	1,344	12,610	0
Private						
Duke U.	1,237,686	631,158	776,632	410,586	461,054	220,572
Wake Forest U.	264,216	25,584	188,887	16,061	75,329	9,523
Ohio						
Public						
Cleveland State U.	71,451	1,262 i	47,402	1,115 i	24,049	147 i
Kent State U.	50,408	851	15,179	851	35,229	0
Miami U.	25,138	152	9,412	151	15,726	1
Ohio State U.	1,236,111	71,269	559,797	31,501	676,314	39,768
Ohio U.	49,764	85	19,164	59	30,600	26
U. Cincinnati	551,826	35,138	309,097	20,403	242,729	14,735
U. Toledo	53,169	1,801	32,601	191	20,568	1,610
Wright State U.	26,259	373	19,617	135	6,642	238
Private						
Case Western Reserve U.	421,868	5,041	340,438	4,799	81,430	242
Oklahoma						
Public						
Oklahoma State U., Center for Health Sciences	7,758	95	2,304	0	5,454	95
U. Oklahoma, Norman and Health Science Center	380,048	13,143	193,639	13	186,409	13,130
U. Oklahoma, Tulsa	7,185	72	1,267	0	5,918	72
Private						
U. Tulsa	16,449	3	5,876	0	10,573	3
Oregon						
Public						
Oregon Health and Science U.	452,812	58,937	329,016	26,475	123,796	32,462
U. Oregon	139,193	8,095	82,242	8,003	56,951	92
Private						
National U. of Natural Medicine	850	221	523	203	327	18
Pacific U.	4,690	599	2,072	599	2,618	0
Pennsylvania						
Public						
Pennsylvania State U., University Park and Hershey Medical Center	970,544	5,911	622,532	0	348,012	5,911

TABLE 73

**Higher education R&D expenditures at institutions reporting clinical trials, by state, institutional control, institution, and source of funds: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	Total		Federal		Nonfederal	
	All R&D expenditures	Clinical trials	All R&D expenditures	Clinical trials	All R&D expenditures	Clinical trials
Temple U.	299,778	20,257	153,316	2,134	146,462	18,123
U. Pittsburgh, Pittsburgh	1,135,416	19,421	724,993	5,201	410,423	14,220
Private						
Drexel U.	152,752	599	93,517	0	59,235	599
Thomas Jefferson U.	200,393	18,548	109,448	5,855	90,945	12,693
U. Pennsylvania	1,631,950	76,568	792,089	5,672	839,861	70,896
South Carolina						
Public						
Medical U. South Carolina	277,761	41,682	162,394	22,758	115,367	18,924
U. South Carolina, Columbia	215,374	325	97,193	281	118,181	44
Private						
Furman U.	2,431	4	1,028	4	1,403	0
Tennessee						
Public						
East Tennessee State U.	18,449	175	8,358	8	10,091	167
U. Tennessee, Health Science Center	109,562	1,520	56,021	12	53,541	1,508
Private						
Meharry Medical C.	15,840	862	13,784	496	2,056	366
Vanderbilt U. and Vanderbilt U. Medical Center	1,019,273	67,625	586,880	30,359	432,393	37,266
Texas						
Public						
Texas A&M U., College Station and Health Science Center	1,147,720	518	528,057	0	619,663	518
Texas Tech U., Health Sciences Center	41,583	297	12,148	47	29,435	250
Texas Tech U., Health Sciences Center, El Paso	11,360	778	1,831	205	9,529	573
Texas Woman's U.	4,943	71	1,514	37	3,429	34
U. Houston	202,536	1,593	77,489	1,163	125,047	430
U. North Texas, Health Science Center	50,698	489	32,464	488	18,234	1
U. Texas Health Science Center, Houston	308,823	15,975	165,139	6,184	143,684	9,791
U. Texas Health Science Center, San Antonio	219,734	10,444	106,824	2,384	112,910	8,060
U. Texas Health Science Center, Tyler	27,928	975	12,007	956	15,921	19
U. Texas M. D. Anderson Cancer Center	1,124,971	162,953	217,073	3,085	907,898	159,868
U. Texas Medical Branch	185,759	4,379	117,915	2,337	67,844	2,042
U. Texas Rio Grande Valley	58,187	320	13,018	173	45,169	147
U. Texas Southwestern Medical Center	632,134	39,872	257,611	14,550	374,523	25,322

TABLE 73

**Higher education R&D expenditures at institutions reporting clinical trials, by state, institutional control, institution, and source of funds: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	Total		Federal		Nonfederal	
	All R&D expenditures	Clinical trials	All R&D expenditures	Clinical trials	All R&D expenditures	Clinical trials
U. Texas, Arlington	126,477	573	46,946	573	79,531	0
U. Texas, Austin	779,348	2,797	489,827	2,457	289,521	340
U. Texas, El Paso	109,410	1,276	43,930	1,276	65,480	0
Private						
Baylor C. of Medicine	716,976	41,843	365,472	18,457	351,504	23,386
Baylor U.	48,809	941	11,025	941	37,784	0
Rice U.	207,404	1,076	95,648	580	111,756	496
Texas Christian U.	15,336	2,342	4,448	2,342	10,888	0
Utah						
Public						
U. Utah	624,737	31,652	340,434	0	284,303	31,652
Vermont						
Public						
U. Vermont	195,320	7,158	103,554	5,148	91,766	2,010
Virginia						
Public						
Eastern Virginia Medical School	19,415	3,353	14,774	1,425	4,641	1,928
Old Dominion U.	62,332	377	25,514	377	36,818	0
U. Virginia, Charlottesville	611,313	8,728	297,273	593	314,040	8,135
Virginia Commonwealth U.	364,096	3,136	160,995	534	203,101	2,602
Virginia Polytechnic Institute and State U.	542,045	5,736	216,733	5,611	325,312	125
Washington						
Public						
U. Washington, Seattle	1,488,645	50,227	1,046,377	22,273	442,268	27,954
Washington State U.	357,648	3,967	179,536	3,967	178,112	0
West Virginia						
Public						
Marshall U.	23,620	7	12,854	0	10,766	7
West Virginia U.	199,907	2,605	89,802	482	110,105	2,123
Wisconsin						
Public						
U. Wisconsin-Madison	1,380,075	16,111	646,764	1,302	733,311	14,809
Private						
Marquette U.	37,087	1,636	13,918	1,403	23,169	233

TABLE 73

**Higher education R&D expenditures at institutions reporting clinical trials, by state, institutional control, institution, and source of funds: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	Total		Federal		Nonfederal	
	All R&D expenditures	Clinical trials	All R&D expenditures	Clinical trials	All R&D expenditures	Clinical trials
Medical C. Wisconsin	276,850	16,229	136,385	786	140,465	15,443
Puerto Rico						
Public						
U. Puerto Rico, Medical Sciences Campus	44,111	2,443	33,262	1,776	10,849	667
Private						
Ponce Health Sciences U.	23,297	5,891	18,284	4,345	5,013	1,546

i = imputed.

<sup>a</sup> The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

<sup>b</sup> The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

<sup>c</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

<sup>d</sup> Johns Hopkins University includes the Applied Physics Laboratory, with zero in both total and federally financed clinical trials R&D expenditures in FY 2021.

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2021.

TABLE 74

**Total and federally financed higher education R&D expenditures received as a subrecipient, by highest degree granted and institutional control: FY 2021**

(Dollars in thousands)

R&D expenditures and type of institution	All R&D expenditures	R&D expenditures received as a subrecipient				
		Total	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities
Total R&D, all institutions	89,723,447	8,751,401	4,157,506	1,430,740	1,689,859	1,473,296
Doctorate	89,051,221	8,688,856	4,121,844	1,428,118	1,679,186	1,459,708
Nondoctorate	672,226	62,545	35,662	2,622	10,673	13,588
Public	58,667,378	5,809,867	2,496,902	1,005,268	1,059,350	1,248,347
Private	31,056,069	2,941,534	1,660,604	425,472	630,509	224,949
Federally financed R&D, all institutions	49,143,460	7,528,216	3,760,454	1,167,340	1,352,685	1,247,737
Doctorate	48,776,007	7,479,691	3,729,536	1,165,338	1,343,999	1,240,818
Nondoctorate	367,453	48,525	30,918	2,002	8,686	6,919
Public	30,103,415	4,973,188	2,272,182	810,395	829,523	1,061,088
Private	19,040,045	2,555,028	1,488,272	356,945	523,162	186,649

**Note(s):**

This table includes only institutions reporting \$1 million or more in total R&D expenditures in 2020. Institutions reporting less than \$1 million in total R&D expenditures in 2020 completed a shorter version of the survey form in FY 2021, and that form only requested R&D expenditures received from higher education institutions. For a listing of R&D expenditures received from higher education institutions at institutions completing the shorter version of the survey, see [table 85](#).

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2021.



TABLE 75

**Total and federally financed higher education R&D expenditures passed through to subrecipients, by highest degree granted and institutional control: FY 2021**

(Dollars in thousands)

Type of institution	All R&D expenditures	R&D expenditures passed through to subrecipients				
		Total	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
Total R&D, all institutions	89,723,447	7,576,989	4,070,435	1,487,533	1,382,664	636,357
Doctorate	89,051,221	7,548,281	4,051,282	1,485,443	1,377,709	633,847
Nondoctorate	672,226	28,708	19,153	2,090	4,955	2,510
Public	58,667,378	4,599,631	2,560,447	994,614	667,919	376,651
Private	31,056,069	2,977,358	1,509,988	492,919	714,745	259,706
Federally financed R&D, all institutions	49,143,460	6,537,697	3,648,190	1,222,751	1,177,985	488,771
Doctorate	48,776,007	6,513,823	3,631,213	1,221,286	1,174,233	487,091
Nondoctorate	367,453	23,874	16,977	1,465	3,752	1,680
Public	30,103,415	4,018,212	2,285,553	869,504	557,476	305,679
Private	19,040,045	2,519,485	1,362,637	353,247	620,509	183,092

**Note(s):**

This table includes only institutions reporting \$1 million or more in total R&D expenditures in 2020. Institutions reporting less than \$1 million in total R&D expenditures in 2020 completed a shorter version of the survey form in FY 2021, and that form requested R&D expenditures passed through only to higher education institutions. For a list of R&D expenditures passed through to higher education institutions at institutions completing the shorter version of the survey, see [table 85](#).

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2021.

TABLE 76

**Total and federally financed higher education R&D expenditures received as a subrecipient, by state, institutional control, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities
United States	8,751,401	4,157,506	1,430,740	1,689,859	1,473,296	7,528,216	3,760,454	1,167,340	1,352,685	1,247,737
Alabama										
Public										
Alabama A&M U.	813 i	813 i	0 i	0 i	0 i	813 i	813 i	0 i	0 i	0 i
Alabama State U.	414	414	0	0	0	414	414	0	0	0
Auburn U., Auburn	41,233 i	8,905 i	11,238 i	604 i	20,486 i	38,814	8,016	10,855	209	19,734
Jacksonville State U.	0	0	0	0	0	0	0	0	0	0
Troy U.	289	110	0	0	179	289	110	0	0	179
U. Alabama, Birmingham	82,435	37,840	37,014	5,581	2,000	82,435	37,840	37,014	5,581	2,000
U. Alabama, Huntsville	49,738	4,877	39,765	1,382	3,714	47,594	4,727	39,077	767	3,023
U. Alabama, Tuscaloosa	24,356	10,178	4,453	2,352	7,373	24,356	10,178	4,453	2,352	7,373
U. South Alabama	6,235	3,379	1,958	328	570	4,486	3,379	493	116	498
Private										
Tuskegee U.	1,294	1,009	88	197	0	1,294	1,009	88	197	0
Alaska										
Public										
U. Alaska, Anchorage	2,004	579	101	130	1,194	1,862	476	101	130	1,155
U. Alaska, Fairbanks	11,119	3,312	1,326	4,897	1,584	10,376	3,108	1,277	4,410	1,581
U. Alaska, Southeast	93	0	0	93	0	48	0	0	48	0
Private										
Alaska Pacific U.	77	77	0	0	0	64	64	0	0	0
Arizona										
Public										
Arizona State U.	85,847	25,626	15,080	41,645	3,496	50,276	23,913	11,634	11,645	3,084
Northern Arizona U.	6,877 i	3,906 i	905 i	1,354 i	712 i	6,199	3,667	882	1,280	370
U. Arizona	65,879 i	26,658 i	10,470 i	22,780 i	5,971 i	60,121	24,548	9,552	21,834	4,187
Arkansas										
Public										
Arkansas State U., Jonesboro	2,062	1,019	0	0	1,043	2,050	1,007	0	0	1,043
U. Arkansas for Medical Sciences	13,519	4,243	3,096	1,803	4,377	13,170	3,894	3,096	1,803	4,377
U. Arkansas, Fayetteville	11,965	5,140	1,720	611	4,494	11,149	4,433	1,684	538	4,494

TABLE 76

**Total and federally financed higher education R&D expenditures received as a subrecipient, by state, institutional control, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities
U. Arkansas, Little Rock	2,667	1,431	164	0	1,072	2,667	1,431	164	0	1,072
U. Arkansas, Pine Bluff	172	172	0	0	0	116	116	0	0	0
U. Central Arkansas	1,166	596	210	0	360	784	527	210	0	47
California										
Public										
California Polytechnic State U., San Luis Obispo	3,744	1,733	963	369	679	2,998	1,548	635	272	543
California State Polytechnic U., Pomona	1,420	717	89	291	323	1,218	515	89	291	323
California State U., Bakersfield	82	48	0	0	34	34	0	0	0	34
California State U., Channel Islands	69	18	0	34	17	33	13	0	20	0
California State U., Chico	456	304	0	0	152	290	290	0	0	0
California State U., Dominguez Hills	428	428	0	0	0	428	428	0	0	0
California State U., East Bay	2,294	991	168	6	1,129	763	232	85	0	446
California State U., Fresno	2,028	1,129	20	410	469	826	17	4	352	453
California State U., Fullerton	830	768	20	42	0	620	600	20	0	0
California State U., Long Beach	1,862	1,523	15	241	83	911	811	14	3	83
California State U., Los Angeles	938	893	0	45	0	697	652	0	45	0
California State U., Maritime Academy	227	67	0	0	160	18	18	0	0	0
California State U., Monterey Bay	2,683	703	2	1,571	407	2,318	520	2	1,558	238
California State U., Northridge	3,273	1,809	81	711	672	1,740	1,199	0	214	327
California State U., Sacramento	1,360	1,197	9	63	91	335	275	0	8	52
California State U., San Bernardino	632	334	0	0	298	302	289	0	0	13
California State U., San Marcos	173	127	0	46	0	171	125	0	46	0
California State U., Stanislaus	225	223	0	0	2	224	222	0	0	2
Humboldt State U.	2,109	1,061	55	532	461	823	277	12	196	338
Naval Postgraduate School	638	312	264	62	0	0	0	0	0	0
San Diego State U.	9,513	7,023	841	1,249	400	8,666	6,299	838	1,249	280
San Francisco State U.	2,534	1,968	24	341	201	2,058	1,852	15	181	10
San Jose State U.	6,847	2,929	145	3,564	209	4,854	1,292	145	3,208	209
Sonoma State U.	526	508	0	15	3	421	403	0	15	3
U. California, Berkeley	59,524	41,909	3,615	6,826	7,174	47,367	33,381	3,047	4,289	6,650

TABLE 76

**Total and federally financed higher education R&D expenditures received as a subrecipient, by state, institutional control, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities
U. California, Davis	53,026	28,924	6,322	12,788	4,992	44,679	26,385	4,488	9,402	4,404
U. California, Irvine	34,387	20,369	7,011	6,770	237	27,406	17,942	3,908	5,368	188
U. California, Los Angeles	78,743	49,104	10,742	18,480	417	66,321	43,445	7,745	14,965	166
U. California, Merced	1,189	858	50	0	281	825	746	0	0	79
U. California, Office of the President	55	0	0	0	55	55	0	0	0	55
U. California, Riverside	10,261	5,960	1,278	1,856	1,167	8,982	5,743	638	1,735	866
U. California, San Diego	141,475	57,636	21,675	27,945	34,219	102,909	48,092	12,037	23,389	19,391
U. California, San Francisco	107,633	52,457	7,438	46,690	1,048	98,152	48,791	6,815	42,305	241
U. California, Santa Barbara	24,228	13,665	4,353	6,161	49	21,105	11,683	4,051	5,344	27
U. California, Santa Cruz	7,669	5,983	289	1,222	175	6,663	5,174	289	1,189	11
Private										
Azusa Pacific U.	197	46	0	11	140	57	46	0	11	0
Biola U.	111	60	15	27	9	95	56	12	21	6
California Institute of Technology	38,725	29,331	1,571	7,823	0	34,354	26,217	1,569	6,568	0
Chapman U.	2,410	1,476	624	310	0	2,253	1,406	624	223	0
Charles R. Drew U. of Medicine and Science	1,386	0	0	0	1,386	1,386	0	0	0	1,386
Claremont Graduate U.	567	116	0	424	27	226	116	0	83	27
Claremont McKenna C.	128	128	0	0	0	128	128	0	0	0
Fielding Graduate U.	0	0	0	0	0	0	0	0	0	0
Harvey Mudd C.	79	69	0	10	0	79	69	0	10	0
High Tech High Graduate School of Ed.	0	0	0	0	0	0	0	0	0	0
Keck Graduate Institute	155	21	134	0	0	134	0	134	0	0
La Sierra U.	0	0	0	0	0	0	0	0	0	0
Loma Linda U.	1,207	924	239	44	0	1,207	924	239	44	0
Loyola Marymount U.	570	397	0	173	0	68	68	0	0	0
Marshall B. Ketchum U.	36	36	0	0	0	36	36	0	0	0
Mills C.	129	0	0	129	0	0	0	0	0	0
Occidental C.	154	106	0	0	48	67	19	0	0	48
Pepperdine U.	319	276	0	38	5	143	121	0	22	0
Pomona C.	65	65	0	0	0	65	65	0	0	0
Santa Clara U.	334	116	217	1	0	326	108	217	1	0

TABLE 76

**Total and federally financed higher education R&D expenditures received as a subrecipient, by state, institutional control, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities
Scripps Research Institute	28,733	16,630	949	10,759	395	26,422	15,397	949	9,681	395
Stanford U.	147,307	96,636	16,707	29,845	4,119	113,359	77,377	11,176	24,167	639
Touro U.	395	395	0	0	0	395	395	0	0	0
U. of the Pacific	40	40	0	0	0	40	40	0	0	0
U. San Diego	262	145	10	54	53	252	145	0	54	53
U. San Francisco	61	42	0	19	0	61	42	0	19	0
U. Southern California	90,912	52,848	12,475	24,357	1,232	83,007	47,295	12,106	22,622	984
Western U. of Health Sciences	385	285	100	0	0	373	285	88	0	0
Colorado										
Public										
Colorado School of Mines	18,822	6,104	3,851	2,349	6,518	12,081	5,582	3,728	1,950	821
Colorado State U., Fort Collins	40,374	20,991	7,628	4,194	7,561	39,069	20,432	7,299	3,830	7,508
Colorado State U., Pueblo	69	69	0	0	0	69	69	0	0	0
Fort Lewis C.	379	379	0	0	0	379	379	0	0	0
U. Colorado Anschutz Medical Campus	61,407	32,501	8,148	14,314	6,444	56,208	31,157	6,920	12,844	5,287
U. Colorado Boulder	68,887	35,216	12,494	8,115	13,062	67,133	34,743	11,987	7,759	12,644
U. Colorado Colorado Springs	1,638	584	1,032	22	0	1,638	584	1,032	22	0
U. Colorado Denver <sup>a</sup>	2,871	1,751	542	174	404	2,710	1,709	504	129	368
U. Northern Colorado	535	348	119	0	68	535	348	119	0	68
U.S. Air Force Academy	0	0	0	0	0	0	0	0	0	0
Private										
Colorado C.	12	12	0	0	0	12	12	0	0	0
U. Denver	5,380	3,195	827	1,327	31	5,139	3,001	802	1,305	31
Connecticut										
Public										
Central Connecticut State U.	272	42	0	0	230	272	42	0	0	230
Eastern Connecticut State U.	6	6	0	0	0	6	6	0	0	0
Southern Connecticut State U.	333	333	0	0	0	333	333	0	0	0
U. Connecticut	33,046	13,674	3,242	4,773	11,357	31,585	12,889	2,981	4,465	11,250
Private										
Connecticut C.	84	84	0	0	0	84	84	0	0	0

TABLE 76

**Total and federally financed higher education R&D expenditures received as a subrecipient, by state, institutional control, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities
Fairfield U.	28	28	0	0	0	17	17	0	0	0
Sacred Heart U.	0	0	0	0	0	0	0	0	0	0
Trinity C., Hartford	49	49	0	0	0	49	49	0	0	0
U. Hartford	47	23	0	24	0	47	23	0	24	0
U. New Haven	694	189	100	303	102	558	132	100	224	102
Wesleyan U.	966	594	129	243	0	725	571	67	87	0
Yale U.	84,883	57,191	4,374	18,190	5,128	76,659	52,621	4,198	15,216	4,624
Delaware										
Public										
Delaware State U.	1,345	1,290	55	0	0	1,233	1,178	55	0	0
U. Delaware	24,093	13,283	3,134	3,832	3,844	23,074	12,264	3,134	3,832	3,844
District of Columbia										
Public										
National Defense U.	0	0	0	0	0	0	0	0	0	0
U. of the District of Columbia	0	0	0	0	0	0	0	0	0	0
Private										
American U.	2,509	1,071	63	1,370	5	1,993	875	61	1,052	5
Catholic U. of America	8,261	4,880	2,917	464	0	8,172	4,835	2,917	420	0
Gallaudet U.	88	88	0	0	0	88	88	0	0	0
George Washington U.	29,849	15,380	3,344	10,337	788	25,488	13,953	3,192	7,822	521
Georgetown U.	17,908	10,026	3,874	3,554	454	15,199	8,954	3,464	2,367	414
Howard U.	7,091	4,507	44	435	2,105	5,559	3,349	0	105	2,105
Florida										
Public										
Florida A&M U.	2,616	1,234	661	100	621	2,595	1,216	661	97	621
Florida Atlantic U.	4,879	2,847	423	15	1,594	4,879	2,847	423	15	1,594
Florida Gulf Coast U.	3,113	1,247	135	172	1,559	989	859	5	25	100
Florida International U.	27,724	14,668	5,939	3,547	3,570	21,786	10,332	5,846	2,136	3,472
Florida Polytechnic U.	259	79	0	0	180	239	66	0	0	173
Florida State U.	16,777	10,034	1,648	2,292	2,803	16,266	9,556	1,615	2,292	2,803
U. Central Florida	25,003	10,459	9,515	1,246	3,783	22,557	9,622	9,180	849	2,906

TABLE 76

**Total and federally financed higher education R&D expenditures received as a subrecipient, by state, institutional control, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities
U. Florida	97,508	54,679	13,069	12,744	17,016	82,773	44,224	12,476	10,904	15,169
U. North Florida	6,368	2,830	53	43	3,442	4,937	2,170	13	1	2,753
U. South Florida <sup>b</sup>	62,869	11,271	3,600	5,867	42,131	61,542	11,055	3,553	5,555	41,379
U. West Florida	896	265	54	0	577	879	255	53	0	571
Private										
Embry-Riddle Aeronautical U.	2,600 i	2,389 i	195 i	0 i	16 i	2,164	2,004	160	0	0
Florida Institute of Technology	3,020	1,176	1,371	362	111	2,820	1,100	1,368	241	111
Nova Southeastern U.	1,935	1,486	57	94	298	1,787	1,356	51	82	298
U. Miami	46,411	23,746	9,200	8,666	4,799	43,013	21,917	8,788	7,800	4,508
Georgia										
Public										
Albany State U.	313	214	0	0	99	214	214	0	0	0
Augusta U.	6,444	5,285	790	308	61	6,444	5,285	790	308	61
Fort Valley State U.	475	472	0	3	0	472	472	0	0	0
Georgia Institute of Technology	100,896	1,759	30,832	5,317	62,988	97,651	1,109	30,203	3,351	62,988
Georgia Southern U.	1,002	527	88	228	159	852	467	88	174	123
Georgia State U.	16,992 i	8,401 i	1,967 i	1,869 i	4,755 i	13,443	7,475	1,132	731	4,105
Kennesaw State U.	687	581	0	18	88	599	581	0	18	0
Savannah State U.	341	341	0	0	0	341	341	0	0	0
U. Georgia	38,659	21,926	3,784	6,671	6,278	37,589	21,308	3,784	6,468	6,029
U. North Georgia	326	320	0	6	0	325	319	0	6	0
Private										
Clark Atlanta U.	206	206	0	0	0	206	206	0	0	0
Emory U.	90,521	51,912	9,177	27,514	1,918	77,153	48,846	4,063	22,932	1,312
Mercer U.	5,158	522	4,564	0	72	309	309	0	0	0
Morehouse C.	653	653	0	0	0	653	653	0	0	0
Morehouse School of Medicine	8,960 i	8,840 i	34 i	66 i	20 i	8,749	8,749	0	0	0
Spelman C.	393	393	0	0	0	393	393	0	0	0
Hawaii										
Public										
U. Hawaii, Hilo	519	305	20	99	95	473	305	20	99	49

TABLE 76

**Total and federally financed higher education R&D expenditures received as a subrecipient, by state, institutional control, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	Total						Federally financed					
	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities		All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities	
U. Hawaii, Manoa	26,080	8,041	1,959	3,984	12,096		25,905	7,995	1,959	3,855	12,096	
U. Hawaii, Maui C.	14	0	0	14	0		14	0	0	14	0	
U. Hawaii, system office	0	0	0	0	0		0	0	0	0	0	
Private												
Hawaii Pacific U.	492	492	0	0	0		488	488	0	0	0	
Idaho												
Public												
Boise State U.	8,128	5,015	289	2,729	95		7,876	4,812	240	2,729	95	
Idaho State U.	2,203	1,274	247	14	668		1,897	1,274	247	13	363	
U. Idaho	8,403	4,767	43	563	3,030		8,176	4,765	43	384	2,984	
Illinois												
Public												
Illinois State U.	960	760	0	111	89		871	760	0	111	0	
Northeastern Illinois U.	120	120	0	0	0		120	120	0	0	0	
Northern Illinois U.	3,254	803	681	1,568	202		3,172	788	681	1,501	202	
Southern Illinois U., Carbondale	5,029	1,357	618	140	2,914		4,340	1,172	418	0	2,750	
Southern Illinois U., Edwardsville	952	363	0	33	556		952	363	0	33	556	
U. Illinois, Chicago	54,079	29,284	10,684	11,288	2,823		51,021	27,539	10,433	10,226	2,823	
U. Illinois, Springfield	0	0	0	0	0		0	0	0	0	0	
U. Illinois, Urbana-Champaign	49,374	32,723	11,480	4,093	1,078		44,996	29,521	11,286	3,566	623	
Western Illinois U.	1,282	861	0	0	421		1,278	857	0	0	421	
Private												
DePaul U.	876	675	0	201	0		876	675	0	201	0	
Erikson Institute	50	0	0	50	0		0	0	0	0	0	
Illinois Institute of Technology	4,609	1,959	628	3	2,019		4,346	1,758	566	3	2,019	
Loyola U., Chicago	6,339	5,414	244	343	338		5,804	5,052	244	170	338	
Midwestern U.	72	72	0	0	0		72	72	0	0	0	
Northwestern U.	95,201	54,756	27,226	12,451	768		69,804	50,408	8,853	9,968	575	
Rosalind Franklin U. of Medicine and Science	931	931	0	0	0		931	931	0	0	0	
Rush U.	18,291	15,433	0	2,195	663		16,378	13,789	0	1,964	625	



TABLE 76

**Total and federally financed higher education R&D expenditures received as a subrecipient, by state, institutional control, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities
Toyota Technological Institute, Chicago	479	479	0	0	0	479	479	0	0	0
U. Chicago	93,812	57,203	22,415	12,000	2,194	89,393	54,199	22,289	11,346	1,559
Wheaton C., Wheaton	85	85	0	0	0	20	20	0	0	0
Indiana										
Public										
Ball State U.	1,110	602	0	200	308	894	572	0	46	276
Indiana State U.	106	36	0	8	62	106	36	0	8	62
Indiana U., Bloomington	51,754	29,232	4,880	14,896	2,746	42,726	25,899	3,045	11,240	2,542
Indiana U., South Bend	44	43	0	1	0	44	43	0	1	0
Indiana U.-Purdue U., Indianapolis	5,347	2,535	735	1,301	776	4,898	2,426	735	1,033	704
Purdue U., Fort Wayne	458	52	90	25	291	25	0	0	25	0
Purdue U., Northwest	817	391	196	0	230	385	179	196	0	10
Purdue U., West Lafayette	72,309	28,781	13,614	6,278	23,636	44,507	26,360	12,635	2,566	2,946
Private										
U. Notre Dame	33,355	11,948	13,525	3,867	4,015	29,232	9,999	12,904	2,730	3,599
Iowa										
Public										
Iowa State U.	31,294	14,056	5,117	3,244	8,877	28,039	11,811	4,539	3,071	8,618
U. Iowa	13,888	2,873	1,574	1,755	7,686	13,888	2,873	1,574	1,755	7,686
U. Northern Iowa	994	327	0	0	667	994	327	0	0	667
Private										
Des Moines U.	385	137	224	24	0	142	137	0	5	0
Dordt U.	0	0	0	0	0	0	0	0	0	0
Drake U.	647	639	0	0	8	626	626	0	0	0
Grinnell C.	102	67	0	35	0	50	50	0	0	0
Palmer C. of Chiropractic, Davenport	0	0	0	0	0	0	0	0	0	0
Kansas										
Public										
Fort Hays State U.	578	331	48	6	193	482	315	0	0	167
Kansas State U.	14,128	5,642	2,304	3,303	2,879	12,645	5,074	2,271	2,486	2,814
Pittsburg State U.	308	180	0	0	128	308	180	0	0	128

TABLE 76

**Total and federally financed higher education R&D expenditures received as a subrecipient, by state, institutional control, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities
U. Kansas	40,204	20,324	3,721	3,851	12,308	35,721	17,556	3,335	3,737	11,093
Wichita State U.	4,641	1,568	1,113	1,651	309	4,341	1,445	1,102	1,496	298
Kentucky										
Public										
Eastern Kentucky U.	351	343	0	0	8	351	343	0	0	8
Kentucky State U.	31	31	0	0	0	31	31	0	0	0
Morehead State U.	813	13	73	679	48	813	13	73	679	48
Murray State U.	694	551	77	50	16	554	526	0	19	9
Northern Kentucky U.	1,121	474	0	0	647	1,121	474	0	0	647
U. Kentucky	44,913	14,597	9,992	3,401	16,923	42,034	12,908	9,555	2,949	16,622
U. Louisville	20,792	5,583	7,603	4,814	2,792	16,433	5,583	3,730	4,328	2,792
Western Kentucky U.	1,963	1,649	167	147	0	1,421	1,272	62	87	0
Louisiana										
Public										
Grambling State U.	684	140	44	0	500	184	140	44	0	0
Louisiana State U., Baton Rouge	26,898	20,285	2,255	1,576	2,782	23,574	18,340	1,836	1,308	2,090
Louisiana State U., Health Sciences Center, New Orleans	6,056	3,292	528	670	1,566	5,846	3,159	528	670	1,489
Louisiana State U., Health Sciences Center, Shreveport	1,085	1,081	4	0	0	1,082	1,081	1	0	0
Louisiana Tech U.	5,348	735	665	2,359	1,589	4,788	569	543	2,185	1,491
Northwestern State U. Louisiana	0	0	0	0	0	0	0	0	0	0
Southeastern Louisiana U.	626	504	0	4	118	626	504	0	4	118
Southern U. and A&M C., Agricultural Research and Extension Center	0	0	0	0	0	0	0	0	0	0
Southern U. and A&M C., Baton Rouge	627	0	627	0	0	0	0	0	0	0
U. Louisiana, Lafayette	9,838	3,060	612	254	5,912	8,220	1,736	518	247	5,719
U. Louisiana, Monroe	800	382	140	72	206	708	382	140	6	180
U. New Orleans	1,101	546	0	55	500	886	358	0	55	473
Private										
Dillard U.	0	0	0	0	0	0	0	0	0	0
Tulane U.	27,159	17,625	2,089	6,538	907	21,652	13,973	1,481	5,433	765

TABLE 76

**Total and federally financed higher education R&D expenditures received as a subrecipient, by state, institutional control, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities
Xavier U. Louisiana	1,533	512	0	279	742	824	512	0	279	33
Maine										
Public										
U. Maine	16,345	4,443	5,390	21	6,491	15,224	4,239	5,292	21	5,672
U. Southern Maine	1,083	476	0	607	0	827	461	0	366	0
Private										
Bates C.	722	194	0	528	0	722	194	0	528	0
Bowdoin C.	365	66	0	292	7	365	66	0	292	7
Colby C.	253	68	0	0	185	218	53	0	0	165
U. New England	289	133	0	156	0	187	127	0	60	0
Maryland										
Public										
Bowie State U.	923	923	0	0	0	923	923	0	0	0
Morgan State U.	4,711	1,414	651	2,646	0	4,711	1,414	651	2,646	0
Salisbury U.	994	699	0	295	0	802	596	0	206	0
Towson U.	377	51	208	92	26	330	30	182	92	26
U. Baltimore	4,474	244	0	1,463	2,767	4,474	244	0	1,463	2,767
U. Maryland <sup>c</sup>	85,350	37,188	6,866	19,966	21,330	76,546	34,831	6,188	15,649	19,878
U. Maryland Center for Environmental Science	3,620	1,403	82	997	1,138	2,577	1,396	0	92	1,089
U. Maryland, Baltimore County	19,133	13,017	283	700	5,133	19,081	12,965	283	700	5,133
U. Maryland, Eastern Shore	286	286	0	0	0	173	173	0	0	0
U.S. Naval Academy	2,383	274	0	2,109	0	2,109	0	0	2,109	0
Uniformed Services U. of the Health Sciences	0	0	0	0	0	0	0	0	0	0
Private										
Johns Hopkins U. <sup>d</sup>	132,520	69,541	15,515	36,193	11,271	109,234	61,536	12,412	26,559	8,727
Massachusetts										
Public										
Framingham State U.	11	11	0	0	0	11	11	0	0	0
U. Massachusetts, Amherst	23,994	11,691	3,848	3,386	5,069	22,796	11,055	3,632	3,041	5,068

TABLE 76

**Total and federally financed higher education R&D expenditures received as a subrecipient, by state, institutional control, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities
U. Massachusetts, Boston	8,190	2,876	488	3,169	1,657	5,603	2,318	482	1,634	1,169
U. Massachusetts, central office	489	371	0	118	0	154	53	0	101	0
U. Massachusetts, Dartmouth	2,962	1,056	359	1,336	211	2,747	877	323	1,336	211
U. Massachusetts, Lowell	11,567	6,403	2,345	1,824	995	10,925	6,183	2,238	1,715	789
U. Massachusetts, Medical School	26,746	15,255	2,599	8,559	333	23,765	13,405	2,439	7,588	333
Private										
Amherst C.	16	16	0	0	0	16	16	0	0	0
Babson C.	8	8	0	0	0	0	0	0	0	0
Boston C.	4,703	2,158	741	1,221	583	2,919	1,146	741	449	583
Boston U.	58,155	31,030	4,387	19,477	3,261	52,785	27,950	4,218	17,827	2,790
Brandeis U.	8,617	3,372	2,193	2,064	988	8,227	3,278	2,178	1,783	988
Clark U.	525	410	0	76	39	486	410	0	76	0
Franklin W. Olin C. of Engineering	220	220	0	0	0	220	220	0	0	0
Harvard U.	111,734	51,066	4,743	24,902	31,023	94,431	47,960	3,657	19,087	23,727
Massachusetts Institute of Technology	139,065	74,361	27,632	30,658	6,414	110,859	60,717	25,152	23,439	1,551
MGH Institute of Health Professions	340	340	0	0	0	340	340	0	0	0
Mount Holyoke C.	430	430	0	0	0	430	430	0	0	0
New England C. of Optometry	96	96	0	0	0	96	96	0	0	0
Northeastern U.	29,837	12,359	6,018	9,845	1,615	27,816	11,472	5,688	9,264	1,392
Smith C.	50	47	0	3	0	44	41	0	3	0
Suffolk U.	25	15	0	10	0	16	15	0	1	0
Tufts U.	20,031	8,845	0	48	11,138	19,997	8,835	0	24	11,138
Wellesley C.	1,034	482	0	552	0	1,034	482	0	552	0
Williams C.	93	93	0	0	0	93	93	0	0	0
Woods Hole Oceanographic Institution	20,159	8,039	8,286	2,973	861	19,223	7,883	8,225	2,254	861
Worcester Polytechnic Institute	6,101	2,010	2,677	1,141	273	5,747	1,890	2,677	935	245
Michigan										
Public										
Central Michigan U.	1,619	1,125	0	142	352	1,497	1,080	0	65	352
Eastern Michigan U.	336	227	0	82	27	336	227	0	82	27
Grand Valley State U.	985	525	0	0	460	682	344	0	0	338

TABLE 76

**Total and federally financed higher education R&D expenditures received as a subrecipient, by state, institutional control, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities
Michigan State U.	56,985	37,683	4,685	8,455	6,162	53,311	35,455	4,673	7,351	5,832
Michigan Technological U.	10,647	2,573	5,862	1,068	1,144	10,092	2,383	5,771	975	963
Northern Michigan U.	102	39	0	0	63	102	39	0	0	63
Oakland U.	746	651	92	0	3	574	523	51	0	0
Saginaw Valley State U.	129	2	0	11	116	129	2	0	11	116
U. Michigan, Ann Arbor	151,990	77,263	18,746	42,300	13,681	130,282	68,758	11,770	36,793	12,961
U. Michigan, Dearborn	393	29	155	209	0	313	17	155	141	0
U. Michigan, Flint	44	29	0	15	0	29	29	0	0	0
Wayne State U.	16,997	9,849	2,475	3,325	1,348	14,208	9,096	1,668	2,759	685
Western Michigan U. and Homer Stryker M.D. School of Medicine	1,212	538	145	188	341	1,203	538	136	188	341
Private										
Albion C.	52	52	0	0	0	52	52	0	0	0
Andrews U.	110	110	0	0	0	110	110	0	0	0
Calvin U.	446	0	0	59	387	387	0	0	0	387
Hope C.	354	80	0	274	0	316	42	0	274	0
Kettering U.	269	157	0	0	112	157	157	0	0	0
Lawrence Technological U.	119	36	74	9	0	119	36	74	9	0
U. Detroit Mercy	127	92	35	0	0	127	92	35	0	0
Van Andel Research Institute	4,522	1,515	2,831	138	38	3,590	753	2,661	138	38
Minnesota										
Public										
Minnesota State U., Mankato	407	188	56	55	108	362	172	49	48	93
St. Cloud State U.	30	30	0	0	0	23	23	0	0	0
U. Minnesota, Duluth	1,269	818	83	0	368	1,149	818	83	0	248
U. Minnesota, Morris	0	0	0	0	0	0	0	0	0	0
U. Minnesota, Twin Cities	122,667	59,072	35,861	2,555	25,179	111,188	53,531	33,738	1,581	22,338
Private										
C. of Saint Benedict	7	7	0	0	0	7	7	0	0	0
Carleton C.	241	241	0	0	0	241	241	0	0	0
Macalester C.	160	160	0	0	0	160	160	0	0	0



TABLE 76

**Total and federally financed higher education R&D expenditures received as a subrecipient, by state, institutional control, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities
Public										
U. Nebraska, central administration	2,251	1,192	519	540	0	2,219	1,160	519	540	0
U. Nebraska, Kearney	1,924	941	0	0	983	1,179	941	0	0	238
U. Nebraska, Lincoln	21,454	11,391	804	2,968	6,291	21,250	11,280	711	2,968	6,291
U. Nebraska, Medical Center	37,382	11,828	12,179	8,733	4,642	20,774	10,923	4,130	3,958	1,763
U. Nebraska, Omaha	3,011	1,809	49	1,040	113	2,935	1,748	45	1,036	106
Private										
Creighton U.	5,035	3,231	31	1,773	0	5,035	3,231	31	1,773	0
Doane U.	385	385	0	0	0	385	385	0	0	0
Nevada										
Public										
Desert Research Institute	5,149	2,080	1,933	508	628	4,396	1,681	1,685	507	523
U. Nevada, Las Vegas	9,381	2,060	1,882	1,903	3,536	7,411	1,476	1,452	1,291	3,192
U. Nevada, Reno	21,024	10,260	2,015	1,700	7,049	17,437	7,112	1,846	1,571	6,908
Private										
Roseman U. of Health Sciences	108	108	0	0	0	43	43	0	0	0
New Hampshire										
Public										
Keene State C.	534	534	0	0	0	534	534	0	0	0
U. New Hampshire	28,978	18,773	2,238	3,553	4,414	26,773	17,843	1,487	3,553	3,890
Private										
Dartmouth C. and Dartmouth Hitchcock Medical Center	26,928	14,101	2,724	8,259	1,844	22,501	11,902	2,240	7,155	1,204
New Jersey										
Public										
C. New Jersey	199	197	0	0	2	199	197	0	0	2
Kean U.	96	96	0	0	0	96	96	0	0	0
Montclair State U.	1,029	666	6	324	33	734	575	6	120	33
New Jersey Institute of Technology	38,350	3,340	1,891	700	32,419	38,271	3,272	1,891	700	32,408
Rowan U.	2,804	1,364	460	546	434	2,237	1,327	420	56	434
Rutgers, State U. New Jersey, Camden	810	153	76	19	562	747	136	60	0	551

TABLE 76

**Total and federally financed higher education R&D expenditures received as a subrecipient, by state, institutional control, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	Total						Federally financed					
	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities		
Rutgers, State U. New Jersey, New Brunswick	58,345	32,876	9,490	8,134	7,845	58,305	32,864	9,490	8,134	7,817		
Rutgers, State U. New Jersey, Newark	1,582	1,210	266	64	42	1,372	1,152	214	0	6		
Stockton U.	198	9	38	16	135	198	9	38	16	135		
William Paterson U.	1,491	205	530	6	750	1,476	205	530	0	741		
Private												
Monmouth U.	40	40	0	0	0	12	12	0	0	0		
Princeton U.	40,849	28,345	4,972	57	7,475	35,665	23,749	4,822	57	7,037		
Seton Hall U.	50	50	0	0	0	50	50	0	0	0		
Stevens Institute of Technology	6,823	1,813	4,442	121	447	6,567	1,663	4,431	121	352		
New Mexico												
Public												
New Mexico Highlands U.	126	126	0	0	0	126	126	0	0	0		
New Mexico Institute of Mining and Technology	8,081	1,716	1,279	4,156	930	8,081	1,716	1,279	4,156	930		
New Mexico State U.	15,040	5,110	7,148	1,769	1,013	14,938	5,110	7,130	1,761	937		
U. New Mexico	42,849	13,143	15,318	5,043	9,345	42,089	12,985	15,281	4,994	8,829		
New York												
Public												
CUNY, Advanced Science Research Center	1,251	733	117	401	0	1,202	733	89	380	0		
CUNY, Baruch C.	222	174	38	10	0	128	90	38	0	0		
CUNY, Brooklyn C.	272	272	0	0	0	272	272	0	0	0		
CUNY, C. Staten Island	92	90	0	2	0	86	84	0	2	0		
CUNY, City C.	5,309	3,447	246	1,616	0	5,103	3,275	246	1,582	0		
CUNY, Graduate Center	938	747	0	191	0	860	688	0	172	0		
CUNY, Graduate School of Public Health and Health Policy	4,905	3,905	0	994	6	4,242	3,848	0	388	6		
CUNY, Hunter C.	4,508	3,915	270	272	51	4,357	3,859	260	238	0		
CUNY, John Jay C. of Criminal Justice	658	485	0	66	107	471	352	0	12	107		
CUNY, Lehman C.	200	198	0	2	0	68	66	0	2	0		
CUNY, New York City C. of Technology	55	0	0	55	0	55	0	0	55	0		
CUNY, Queens C.	532	434	98	0	0	495	397	98	0	0		



TABLE 76

**Total and federally financed higher education R&D expenditures received as a subrecipient, by state, institutional control, and institution: FY 2021**

(Dollars in thousands)

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	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities
CUNY, system office	68	0	68	0	0	0	0	0	0	0
CUNY, York C.	174	159	0	15	0	174	159	0	15	0
SUNY, Binghamton U.	5,183	1,061	1,227	2,260	635	5,181	1,061	1,225	2,260	635
SUNY, Buffalo State	648	549	0	0	99	571	549	0	0	22
SUNY, C. Brockport	321	260	32	0	29	267	238	0	0	29
SUNY, C. of Environmental Science and Forestry	2,147	636	78	743	690	1,221	524	0	697	0
SUNY, C. of Optometry	96	90	0	6	0	95	89	0	6	0
SUNY, C. Plattsburgh	253	225	19	9	0	240	212	19	9	0
SUNY, Downstate Health Sciences U.	4,081 i	3,849 i	88 i	144 i	0 i	4,032	3,800	88	144	0
SUNY, Geneseo	14	10	0	4	0	14	10	0	4	0
SUNY, Oswego	247	226	4	17	0	247	226	4	17	0
SUNY, Polytechnic Institute	3,090	308	1,890	0	892	2,711	276	1,867	0	568
SUNY, Stony Brook U.	22,983	10,700	2,994	8,794	495	21,900	10,179	2,933	8,428	360
SUNY, U. Albany	7,128	3,829	1,240	1,643	416	6,709	3,767	990	1,549	403
SUNY, U. Buffalo	15,846	8,636	2,923	1,061	3,226	14,706	8,159	2,893	939	2,715
SUNY, Upstate Medical U.	3,503	2,482	269	251	501	2,914	2,005	269	247	393
U.S. Military Academy	268	0	0	268	0	0	0	0	0	0
Private										
Albany C. of Pharmacy and Health Sciences	361	315	0	46	0	361	315	0	46	0
Albany Medical C.	1,383	1,027	190	166	0	1,383	1,027	190	166	0
Albert Einstein C. of Medicine	29,897	23,539	2,057	3,910	391	26,702	21,274	1,966	3,162	300
Alfred U.	225	171	54	0	0	225	171	54	0	0
Barnard C.	280	266	0	14	0	218	218	0	0	0
Canisius C.	61	61	0	0	0	61	61	0	0	0
Clarkson U.	1,897	1,054	685	158	0	1,238	716	369	153	0
Cold Spring Harbor Laboratory	10,618 i	5,683 i	1,784 i	2,366 i	785 i	9,569 i	5,283 i	1,579 i	2,020 i	687 i
Colgate U.	308	157	0	151	0	32	25	0	7	0
Columbia U. in the City of New York	126,282	65,375	12,253	25,510	23,144	107,593	60,509	11,106	20,247	15,731
Cornell U.	91,101	59,080	4,824	24,472	2,725	76,471	50,019	4,790	19,126	2,536
Fordham U.	995	773	0	108	114	995	773	0	108	114

TABLE 76

**Total and federally financed higher education R&D expenditures received as a subrecipient, by state, institutional control, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities
Hamilton C.	132	132	0	0	0	132	132	0	0	0
Hobart and William Smith Colleges	247	35	0	0	212	232	35	0	0	197
Hofstra U.	265	72	0	193	0	179	72	0	107	0
Icahn School of Medicine at Mount Sinai	90,762	46,205	3,525	39,123	1,909	83,425	40,899	3,525	37,651	1,350
Ithaca C.	241	230	0	0	11	230	230	0	0	0
Long Island U.	413	291	0	122	0	413	291	0	122	0
Manhattan C.	70	70	0	0	0	0	0	0	0	0
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	0	0	0	0	0	0	0	0	0	0
New School	696	273	93	162	168	448	265	93	0	90
New York Institute of Technology	131	131	0	0	0	131	131	0	0	0
New York Medical C.	1,349	1,103	246	0	0	1,349	1,103	246	0	0
New York U.	98,323	61,643	10,097	24,608	1,975	88,082	59,524	8,537	18,177	1,844
Niagara U.	194	133	0	30	31	21	0	0	0	21
Pace U.	73	63	0	10	0	73	63	0	10	0
Pratt Institute	20	20	0	0	0	20	20	0	0	0
Rensselaer Polytechnic Institute	13,280	7,974	4,998	284	24	11,405	7,336	4,058	11	0
Rochester Institute of Technology	8,356	2,483	3,748	1,949	176	7,577	2,480	3,478	1,593	26
Rockefeller U.	12,759	8,354	69	4,336	0	11,698	8,354	69	3,275	0
Skidmore C.	16	16	0	0	0	16	16	0	0	0
St. John's U., New York	220	220	0	0	0	0	0	0	0	0
Syracuse U.	7,076	3,828	891	2,307	50	5,066	3,078	807	1,144	37
Teachers C., Columbia U.	2,834	1,788	0	485	561	1,349	868	0	282	199
U. Rochester	33,387	23,653	7,871	1,863	0	32,647	22,944	7,840	1,863	0
Union C., Schenectady	91	10	81	0	0	91	10	81	0	0
Vassar C.	162	111	0	48	3	159	111	0	48	0
Yeshiva U.	916	916	0	0	0	916	916	0	0	0
North Carolina										
Public										
Appalachian State U.	327	310	0	17	0	310	310	0	0	0

TABLE 76

**Total and federally financed higher education R&D expenditures received as a subrecipient, by state, institutional control, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities
East Carolina U.	6,608	4,683	838	857	230	5,722	4,439	490	567	226
Elizabeth City State U.	253	253	0	0	0	253	253	0	0	0
Fayetteville State U.	519	519	0	0	0	0	0	0	0	0
North Carolina Agricultural and Technical State U.	4,149	3,013	124	678	334	4,076	3,013	124	612	327
North Carolina Central U.	1,235	912	4	319	0	295	177	4	114	0
North Carolina State U.	37,745	31,591	3,201	1,618	1,335	29,011	28,599	110	108	194
U. North Carolina, Asheville	1,041	745	0	272	24	725	714	0	11	0
U. North Carolina, Chapel Hill	159,828	82,731	14,985	25,672	36,440	140,190	72,914	12,752	18,845	35,679
U. North Carolina, Charlotte	7,621	3,357	2,194	384	1,686	7,043	3,048	1,956	384	1,655
U. North Carolina, general administration	0	0	0	0	0	0	0	0	0	0
U. North Carolina, Greensboro	6,752	4,192	5	227	2,328	6,752	4,192	5	227	2,328
U. North Carolina, Wilmington	3,138	1,101	871	93	1,073	2,402	913	658	93	738
Western Carolina U.	93	69	0	0	24	93	69	0	0	24
Winston-Salem State U.	513	513	0	0	0	0	0	0	0	0
Private										
Davidson C.	22	22	0	0	0	22	22	0	0	0
Duke U.	144,201	76,475	27,570	20,488	19,668	131,263	70,716	25,214	17,376	17,957
Elon U.	44	37	0	7	0	44	37	0	7	0
Johnson C. Smith U.	44	0	4	40	0	0	0	0	0	0
Wake Forest U.	68,095	29,801	626	26,195	11,473	51,661	14,702	626	24,860	11,473
North Dakota										
Public										
North Dakota State U.	9,371	3,043	670	288	5,370	9,025	2,890	612	277	5,246
U. North Dakota	14,854	3,214	7,231	1,047	3,362	14,445	3,209	7,198	982	3,056
Ohio										
Public										
Air Force Institute of Technology	664	55	609	0	0	664	55	609	0	0
Bowling Green State U.	1,829	545	151	732	401	1,557	420	51	703	383
Central State U.	150	150	0	0	0	150	150	0	0	0
Cleveland State U.	987	272	9	682	24	459	132	9	294	24

TABLE 76

**Total and federally financed higher education R&D expenditures received as a subrecipient, by state, institutional control, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities
Kent State U.	4,138	2,313	645	404	776	2,954	1,500	468	338	648
Miami U.	3,362	2,222	399	593	148	3,011	2,109	389	365	148
Northeast Ohio Medical U.	508	359	44	105	0	491	342	44	105	0
Ohio State U.	143,039	45,930	21,083	30,226	45,800	126,202	41,846	14,136	25,230	44,990
Ohio U.	4,631	1,446	1,489	224	1,472	4,091	1,303	1,274	224	1,290
U. Akron	3,447	1,557	1,324	46	520	2,999	1,219	1,227	37	516
U. Cincinnati	48,991	26,347	3,933	16,524	2,187	43,355	24,144	3,626	13,493	2,092
U. Toledo	8,013	3,426	3,651	482	454	7,200	2,758	3,570	418	454
Wright State U.	4,455	1,724	1,366	1,208	157	3,790	1,578	1,198	857	157
Youngstown State U.	1,668	1,197	0	471	0	1,517	1,197	0	320	0
Private										
C. Wooster	78	78	0	0	0	78	78	0	0	0
Case Western Reserve U.	50,340	36,146	4,805	6,578	2,811	46,790	33,861	4,778	5,705	2,446
Heidelberg U.	107	107	0	0	0	70	70	0	0	0
Oberlin C.	37	37	0	0	0	37	37	0	0	0
U. Dayton	26,694	1,210	18,225	3,628	3,631	26,139	796	18,168	3,618	3,557
Oklahoma										
Public										
Langston U.	133	133	0	0	0	133	133	0	0	0
Oklahoma State U., Center for Health Sciences	494	292	0	30	172	281	281	0	0	0
Oklahoma State U., Stillwater	22,245	5,092	3,230	4,198	9,725	12,237	4,837	1,915	1,876	3,609
U. Central Oklahoma	784	386	0	35	363	727	364	0	0	363
U. Oklahoma, Norman and Health Science Center	23,073	11,899	2,740	2,953	5,481	21,815	11,877	1,552	2,905	5,481
U. Oklahoma, Tulsa	977	678	0	287	12	977	678	0	287	12
Private										
U. Tulsa	567	380	0	155	32	560	373	0	155	32
Oregon										
Public										
Oregon Health and Science U.	50,752	21,904	11,219	6,093	11,536	41,955	20,325	9,648	1,799	10,183

TABLE 76

**Total and federally financed higher education R&D expenditures received as a subrecipient, by state, institutional control, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities
Oregon Institute of Technology	171	171	0	0	0	171	171	0	0	0
Oregon State U.	50,139	16,822	4,329	18,900	10,088	47,572	15,822	4,112	17,666	9,972
Portland State U.	7,435	4,725	1,014	1,026	670	6,632	4,288	906	882	556
U. Oregon	13,883	7,621	2,881	3,381	0	11,811	7,337	2,673	1,801	0
Private										
Lewis and Clark C.	22	22	0	0	0	22	22	0	0	0
National U. of Natural Medicine	202	202	0	0	0	202	202	0	0	0
Pacific U.	495	332	22	27	114	315	277	22	16	0
Reed C.	291	162	0	0	129	291	162	0	0	129
Willamette U.	36	36	0	0	0	36	36	0	0	0
Pennsylvania										
Public										
Indiana U. Pennsylvania	1,077	184	0	162	731	899	184	0	162	553
Pennsylvania State U., Behrend	177	62	39	51	25	177	62	39	51	25
Pennsylvania State U., Harrisburg	1,328	89	0	0	1,239	1,328	89	0	0	1,239
Pennsylvania State U., University Park and Hershey Medical Center	59,541	31,669	23,348	1,076	3,448	59,085	31,669	23,065	1,076	3,275
Temple U.	25,786	16,538	2,525	6,547	176	23,883	15,209	2,493	6,005	176
U. Pittsburgh, Pittsburgh	142,046	61,662	14,342	57,962	8,080	130,542	55,090	12,772	55,824	6,856
U.S. Army War C.	21	0	5	16	0	21	0	5	16	0
West Chester U. Pennsylvania	243	243	0	0	0	211	211	0	0	0
Private										
Arcadia U.	206	101	0	105	0	206	101	0	105	0
Bryn Mawr C.	287	287	0	0	0	287	287	0	0	0
Bucknell U.	616	302	68	31	215	511	247	18	31	215
Carnegie Mellon U.	55,164	25,305	22,767	6,955	137	50,644	22,262	22,385	5,997	0
Drexel U.	24,074	11,030	4,680	2,807	5,557	21,724	10,099	4,581	1,996	5,048
Duquesne U.	1,422	815	41	180	386	1,123	623	41	73	386
Franklin and Marshall C.	389	146	0	216	27	356	140	0	216	0
Haverford C.	291	248	0	43	0	261	248	0	13	0
Lafayette C.	165	165	0	0	0	165	165	0	0	0





TABLE 76

**Total and federally financed higher education R&D expenditures received as a subrecipient, by state, institutional control, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities
Lamar U.	189	189	0	0	0	189	189	0	0	0
Prairie View A&M U.	483	359	13	29	82	417	359	13	29	16
Sam Houston State U.	663	157	0	38	468	475	157	0	38	280
Stephen F. Austin State U.	223	108	49	0	66	98	0	49	0	49
Sul Ross State U.	450	28	0	0	422	345	28	0	0	317
Tarleton State U.	1,397	17	0	0	1,380	884	17	0	0	867
Texas A&M International U.	37	37	0	0	0	37	37	0	0	0
Texas A&M U., College Station and Health Science Center	241,938	42,651	31,299	23,032	144,956	228,509	38,125	27,871	19,543	142,970
Texas A&M U.-Commerce	424	80	0	132	212	422	79	0	132	211
Texas A&M U.-Corpus Christi	6,917	4,622	18	554	1,723	6,733	4,615	18	554	1,546
Texas A&M U.-Kingsville	1,822	1,066	108	293	355	999	739	108	124	28
Texas Southern U.	3,369	418	0	487	2,464	3,240	418	0	358	2,464
Texas State U.	1,431	955	369	107	0	1,098	802	199	97	0
Texas Tech U.	10,322	4,855	3,176	1,124	1,167	8,060	4,082	2,801	738	439
Texas Tech U., Health Sciences Center	4,371	1,112	148	0	3,111	1,085	937	148	0	0
Texas Tech U., Health Sciences Center, El Paso	3,391	864	0	0	2,527	570	570	0	0	0
Texas Woman's U.	337	337	0	0	0	337	337	0	0	0
U. Houston	17,232	8,755	3,761	1,560	3,156	15,597	7,703	3,343	1,395	3,156
U. Houston-Clear Lake	798	184	158	456	0	777	184	158	435	0
U. Houston-Downtown	97	97	0	0	0	97	97	0	0	0
U. North Texas, Denton	4,762	2,273	627	710	1,152	4,486	2,072	627	635	1,152
U. North Texas, Health Science Center	7,594	3,646	1,389	1,754	805	6,193	3,287	814	1,650	442
U. Texas Health Science Center, Houston	37,140	25,014	1,976	6,095	4,055	29,909	21,022	1,976	6,095	816
U. Texas Health Science Center, San Antonio	15,797	9,337	1,166	4,250	1,044	12,997	8,580	357	3,681	379
U. Texas Health Science Center, Tyler	0	0	0	0	0	0	0	0	0	0
U. Texas M. D. Anderson Cancer Center	39,277	23,236	7,712	8,262	67	30,718	20,049	3,831	6,779	59
U. Texas Medical Branch	26,878	12,849	2,357	5,802	5,870	21,280	12,728	2,357	5,802	393
U. Texas of the Permian Basin	118	25	0	0	93	0	0	0	0	0
U. Texas Rio Grande Valley	4,221	2,331	0	406	1,484	2,452	1,874	0	406	172





TABLE 76

**Total and federally financed higher education R&D expenditures received as a subrecipient, by state, institutional control, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities
Christopher Newport U.	195	0	195	0	0	195	0	195	0	0
Eastern Virginia Medical School	2,608	2,133	445	30	0	2,484	2,009	445	30	0
George Mason U.	21,310	7,997	8,101	2,450	2,762	18,341	7,997	7,897	1,373	1,074
James Madison U.	345	217	27	52	49	195	170	0	25	0
Norfolk State U.	262	246	16	0	0	0	0	0	0	0
Old Dominion U.	9,663	2,697	2,099	3,149	1,718	9,360	2,570	1,992	3,149	1,649
U. of Mary Washington	222	191	0	0	31	191	191	0	0	0
U. Virginia's C. Wise	841	18	0	6	817	24	18	0	6	0
U. Virginia, Charlottesville	68,768	29,781	17,255	11,116	10,616	58,156	26,689	14,310	8,252	8,905
Virginia Commonwealth U.	17,446	9,826	2,788	3,250	1,582	11,552	8,760	1,111	1,239	442
Virginia Polytechnic Institute and State U.	46,424	21,712	19,447	1,708	3,557	41,507	20,820	17,130	0	3,557
Virginia State U.	339	339	0	0	0	339	339	0	0	0
William & Mary	12,272	2,522	403	1,742	7,605	9,138	1,625	221	1,726	5,566
Private										
Edward Via C. of Osteopathic Medicine	118	10	108	0	0	115	7	108	0	0
Hampton U.	1,032	1,032	0	0	0	1,032	1,032	0	0	0
Liberty U.	120	0	45	75	0	45	0	45	0	0
Marymount U.	221	180	0	41	0	41	0	0	41	0
U. Richmond	23	23	0	0	0	23	23	0	0	0
Washington										
Public										
Central Washington U.	320	166	0	154	0	283	166	0	117	0
Eastern Washington U.	276	38	12	3	223	225	2	0	0	223
Northwest Indian C.	52	0	0	0	52	0	0	0	0	0
U. Washington, Bothell	816	358	50	408	0	305	197	50	58	0
U. Washington, Seattle	205,826	74,417	15,160	87,098	29,151	183,147	66,803	14,719	77,232	24,393
U. Washington, Tacoma	2,268	115	195	56	1,902	2,148	59	167	20	1,902
Washington State U.	17,381	9,416	2,071	1,285	4,609	16,261	8,947	2,012	895	4,407
Western Washington U.	950	322	0	494	134	191	52	0	5	134
Private										
Seattle U.	118	118	0	0	0	85	85	0	0	0



TABLE 76

**Total and federally financed higher education R&D expenditures received as a subrecipient, by state, institutional control, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities
Public										
U. Guam	1,453	911	0	49	493	1,228	903	0	49	276
Puerto Rico										
Public										
U. Puerto Rico, Cayey	162	162	0	0	0	162	162	0	0	0
U. Puerto Rico, Humacao	291	291	0	0	0	291	291	0	0	0
U. Puerto Rico, Mayaguez	114	0	37	0	77	0	0	0	0	0
U. Puerto Rico, Medical Sciences Campus	7,244	4,714	484	1,863	183	6,465	4,513	89	1,863	0
U. Puerto Rico, Rio Piedras	2,274	1,897	0	0	377	2,274	1,897	0	0	377
Private										
Albizu U.	0	0	0	0	0	0	0	0	0	0
Ponce Health Sciences U.	6,556	4,779	0	90	1,687	6,556	4,779	0	90	1,687
U. Ana G. Mendez, Gurabo	230	230	0	0	0	230	230	0	0	0
U. Central del Caribe	1,404	1,139	0	0	265	1,181	1,139	0	0	42
Virgin Islands										
Public										
U. of the Virgin Islands	3,587	1,353	142	155	1,937	1,472	1,135	0	0	337

i = imputed.

<sup>a</sup> The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

<sup>b</sup> The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

<sup>c</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

<sup>d</sup> Johns Hopkins University includes the Applied Physics Laboratory, with zero in both total and federally financed R&D expenditures received as a subrecipient in FY 2021.

**Note(s):**

This table includes only institutions reporting \$1 million or more in total R&D expenditures in 2020. Institutions reporting less than \$1 million in total R&D expenditures in 2020 completed a shorter version of the survey form in FY 2021, and that form only requested R&D expenditures received from higher education institutions. For a listing of R&D expenditures received from higher education institutions at institutions completing the shorter version of the survey, see [table 85](#).

**Source(s):**  
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2021.

TABLE 77

**Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
United States	7,576,989	4,070,435	1,487,533	1,382,664	636,357	6,537,697	3,648,190	1,222,751	1,177,985	488,771
Alabama										
Public										
Alabama A&M U.	202 i	35 i	105 i	0 i	62 i	202 i	35 i	105 i	0 i	62 i
Alabama State U.	350	350	0	0	0	350	350	0	0	0
Auburn U., Auburn	8,442	4,735 i	1,708 i	544 i	1,455 i	8,237	4,550 i	1,688 i	544 i	1,455 i
Jacksonville State U.	68	68	0	0	0	68	68	0	0	0
Troy U.	255	235	0	20	0	255	235	0	20	0
U. Alabama, Birmingham	73,982	42,101	23,116	8,453	312	68,838	42,078	20,676	5,829	255
U. Alabama, Huntsville	4,484	3,739	150	595	0	4,453	3,708	150	595	0
U. Alabama, Tuscaloosa	5,253	2,998	1,224	513	518	4,982	2,796	1,192	476	518
U. South Alabama	3,522	1,938	122	226	1,236	2,758	1,721	122	218	697
Private										
Tuskegee U.	1,200	1,100	88	12	0	1,200	1,100	88	12	0
Alaska										
Public										
U. Alaska, Anchorage	2,168	11	NA	NA	2,157	2,168	11	0	0	2,157
U. Alaska, Fairbanks	14,941	NA i	NA i	13	14,928 i	14,941	0	0	13	14,928
U. Alaska, Southeast	44	0	0	0	44	44	0	0	0	44
Private										
Alaska Pacific U.	0	0	0	0	0	0	0	0	0	0
Arizona										
Public										
Arizona State U.	59,196	24,871	18,342	11,833	4,150	53,670	22,141	17,616	10,351	3,562
Northern Arizona U.	5,542	1,713	1,875	1,160	794	5,492	1,686	1,875	1,137	794
U. Arizona	49,787	26,936	12,373	8,798	1,680	48,495	25,994	12,258	8,692	1,551
Arkansas										
Public										
Arkansas State U., Jonesboro	294	294	0	0	0	287	287	0	0	0
U. Arkansas for Medical Sciences	10,172	8,156	888	1,070	58	9,503	7,663	886	927	27
U. Arkansas, Fayetteville	7,444	5,936	883	127	498	5,343	4,426	620	115	182
U. Arkansas, Little Rock	1,275	1,275	0	0	0	1,275	1,275	0	0	0

TABLE 77

**Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
U. Arkansas, Pine Bluff	183	102	0	0	81	183	102	0	0	81
U. Central Arkansas	73	52	14	0	7	73	52	14	0	7
California										
Public										
California Polytechnic State U., San Luis Obispo	1,861	1,149	68	341	303	1,355	667	44	341	303
California State Polytechnic U., Pomona	102	102	0	0	0	93	93	0	0	0
California State U., Bakersfield	0	0	0	0	0	0	0	0	0	0
California State U., Channel Islands	151	151	0	0	0	151	151	0	0	0
California State U., Chico	616	550	5	0	61	555	550	5	0	0
California State U., Dominguez Hills	42	42	0	0	0	42	42	0	0	0
California State U., East Bay	1,537	776	0	160	601	793	459	0	74	260
California State U., Fresno	359	257	54	48	0	236	212	24	0	0
California State U., Fullerton	299	250	37	0	12	295	246	37	0	12
California State U., Long Beach	1,183	827	145	155	56	326	231	0	95	0
California State U., Los Angeles	341	278	0	63	0	194	131	0	63	0
California State U., Maritime Academy	161	161	0	0	0	0	0	0	0	0
California State U., Monterey Bay	920	920	0	0	0	611	611	0	0	0
California State U., Northridge	756	722	0	24	10	746	722	0	24	0
California State U., Sacramento	1,348	232	1,116	0	0	54	54	0	0	0
California State U., San Bernardino	594	594	0	0	0	198	198	0	0	0
California State U., San Marcos	715	610	0	105	0	683	578	0	105	0
California State U., Stanislaus	0	0	0	0	0	0	0	0	0	0
Humboldt State U.	1,027	148	527	26	326	105	0	105	0	0
Naval Postgraduate School	1,051	1,051	0	0	0	1,051	1,051	0	0	0
San Diego State U.	4,970	3,109	158	1,271	432	4,430	2,808	158	1,043	421
San Francisco State U.	1,703	1,446	86	61	110	1,548	1,397	0	41	110
San Jose State U.	4,106	3,996	0	10	100	1,374	1,285	0	0	89
Sonoma State U.	305	72	10	202	21	283	67	10	202	4
U. California, Berkeley	65,987	37,188	12,419	8,673	7,707	46,310	26,357	8,776	6,195	4,982
U. California, Davis	57,260	32,068	10,936	7,662	6,594	46,378	26,394	8,790	6,204	4,990
U. California, Irvine	29,838	25,292	1,562	2,805	179	26,289	22,347	1,313	2,629	0

TABLE 77

**Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
U. California, Los Angeles	175,421	98,048 i	33,744 i	23,715 i	19,914 i	155,608	88,565 i	29,490 i	20,820 i	16,733 i
U. California, Merced	2,661	823 i	293 i	205 i	1,340 i	1,491	823 i	293 i	205 i	170 i
U. California, Office of the President	0	0	0	0	0	0	0	0	0	0
U. California, Riverside	11,498	10,815 i	287 i	396 i	0 i	9,124	8,529 i	199 i	396 i	0 i
U. California, San Diego	107,470	59,993 i	20,511 i	14,337 i	12,629 i	79,262	45,111 i	15,021 i	10,603 i	8,527 i
U. California, San Francisco	129,786	71,739 i	25,047 i	17,499 i	15,501 i	94,471	53,767 i	17,903 i	12,638 i	10,163 i
U. California, Santa Barbara	23,124	17,275 i	1,969 i	717 i	3,163 i	16,114	13,070 i	1,969 i	717 i	358 i
U. California, Santa Cruz	14,092	10,105 i	2,362 i	1,625 i	0 i	12,599	8,807 i	2,167 i	1,625 i	0 i
Private										
Azusa Pacific U.	18	18	0	0	0	18	18	0	0	0
Biola U.	106 i	53 i	16 i	28 i	9 i	91 i	49 i	11 i	25 i	6 i
California Institute of Technology	58,800	39,374	12,640	3,250	3,536	45,129	34,466	5,899	3,169	1,595
Chapman U.	2,224	1,445	0	408	371	1,670	1,443	0	227	0
Charles R. Drew U. of Medicine and Science	1,386	0	0	1,386	0	1,386	0	0	1,386	0
Claremont Graduate U.	325	306	0	0	19	13	6	0	0	7
Claremont McKenna C.	79	79	0	0	0	79	79	0	0	0
Fielding Graduate U.	130	0	0	130	0	130	0	0	130	0
Harvey Mudd C.	138	138	0	0	0	138	138	0	0	0
High Tech High Graduate School of Ed.	137	137	0	0	0	0	0	0	0	0
Keck Graduate Institute	460 i	138 i	309 i	0 i	13 i	460 i	138 i	309 i	0 i	13 i
La Sierra U.	0	0	0	0	0	0	0	0	0	0
Loma Linda U.	1,258	705	341	187	25	1,178	697	274	182	25
Loyola Marymount U.	473	325	0	78	70	310	310	0	0	0
Marshall B. Ketchum U.	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Mills C.	25	0	0	0	25	25	0	0	0	25
Occidental C.	134	114	0	0	20	114	114	0	0	0
Pepperdine U.	104	48	0	56	0	9	1	0	8	0
Pomona C.	22	22	0	0	0	22	22	0	0	0
Santa Clara U.	80	0	0	80	0	80	0	0	80	0
Scripps Research Institute	69,481	18,054	22,190	28,114	1,123	68,549	17,368	22,133	27,925	1,123
Stanford U.	92,040	56,558	8,195	17,432	9,855	74,199	45,989	6,354	15,763	6,093



TABLE 77

**Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
Touro U.	11	11	0	0	0	11	11	0	0	0
U. of the Pacific	34	12	0	0	22	34	12	0	0	22
U. San Diego	936	709	0	227	0	740	513	0	227	0
U. San Francisco	61	61	0	0	0	37	37	0	0	0
U. Southern California	124,116	79,623	18,931	23,353	2,209	103,906	70,205	14,038	18,159	1,504
Western U. of Health Sciences	1,055	535	448	0	72	1,045	525	448	0	72
Colorado										
Public										
Colorado School of Mines	7,626	4,868	2,463	148	147	7,366	4,716	2,391	137	122
Colorado State U., Fort Collins	23,116	16,967	2,755	1,519	1,875	20,759	15,385	2,614	1,393	1,367
Colorado State U., Pueblo	0	0	0	0	0	0	0	0	0	0
Fort Lewis C.	193	193	0	0	0	193	193	0	0	0
U. Colorado Anschutz Medical Campus	46,521	27,494	2,877	12,687	3,463	40,106	25,261	2,237	10,068	2,540
U. Colorado Boulder	65,418	31,757	27,138	4,331	2,192	58,638	28,912	24,736	2,798	2,192
U. Colorado Colorado Springs	219	138	15	66	0	192	111	15	66	0
U. Colorado Denver	712	258	164	55	235	358	240	116	2	0
U. Northern Colorado	168	115	53	0	0	168	115	53	0	0
U.S. Air Force Academy	0	0	0	0	0	0	0	0	0	0
Private										
Colorado C.	0	0	0	0	0	0	0	0	0	0
U. Denver	4,454	1,994	681	1,779	0	3,970	1,842	606	1,522	0
Connecticut										
Public										
Central Connecticut State U.	41	41	0	0	0	41	41	0	0	0
Eastern Connecticut State U.	0	0	0	0	0	0	0	0	0	0
Southern Connecticut State U.	66	26	40	0	0	53	13	40	0	0
U. Connecticut	25,134	18,342	4,585	1,812	395	23,774	17,520	4,366	1,662	226
Private										
Connecticut C.	15	15	0	0	0	15	15	0	0	0
Fairfield U.	0	0	0	0	0	0	0	0	0	0
Sacred Heart U.	0	0	0	0	0	0	0	0	0	0
Trinity C., Hartford	303	303	0	0	0	303	303	0	0	0

TABLE 77

**Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
U. Hartford	164	129	4	31	0	164	129	4	31	0
U. New Haven	137	31	0	106	0	87	31	0	56	0
Wesleyan U.	341	341	0	0	0	104	104	0	0	0
Yale U.	74,035	37,982	3,165	26,521	6,367	66,681	35,015	3,075	23,858	4,733
Delaware										
Public										
Delaware State U.	1,280	1,280	0	0	0	1,280	1,280	0	0	0
U. Delaware	34,919	22,368	10,524	1,069	958	30,124	19,862	8,904	1,043	315
District of Columbia										
Public										
National Defense U.	0	0	0	0	0	0	0	0	0	0
U. of the District of Columbia	0	0	0	0	0	0	0	0	0	0
Private										
American U.	2,375	1,218	299	806	52	1,540	854	299	387	0
Catholic U. of America	1,818	790	489	536	3	1,815	790	489	533	3
Gallaudet U.	824	463	0	361	0	681	459	0	222	0
George Washington U.	56,262	36,054	4,711	13,857	1,640	52,371	34,741	3,376	12,864	1,390
Georgetown U.	24,189	9,361	6,195	5,727	2,906	16,124	7,717	3,133	4,289	985
Howard U.	2,346	1,733	217	396	0	1,587	1,342	76	169	0
Florida										
Public										
Florida A&M U.	3,609	3,258	212	131	8	3,536	3,256	144	128	8
Florida Atlantic U.	3,261	2,347	149	12	753	2,865	2,162	149	12	542
Florida Gulf Coast U.	943	255	0	0	688	255	255	0	0	0
Florida International U.	13,585	7,791	2,953	2,276	565	11,256	6,798	2,650	1,400	408
Florida Polytechnic U.	108	108	0	0	0	108	108	0	0	0
Florida State U.	29,044	15,263	3,615	3,497	6,669	28,426	14,734	3,610	3,455	6,627
U. Central Florida	25,869	9,193	8,566	7,432	678	17,925	7,987	8,209	1,204	525
U. Florida	62,726	43,692	1,468	13,765	3,801	53,703	38,435	1,046	11,458	2,764
U. North Florida	174	27	15	132	0	31	21	0	10	0
U. South Florida <sup>b</sup>	37,358	20,751	5,744	5,785	5,078	34,727	19,714	5,324	5,465	4,224
U. West Florida	7,371	7,371	0	0	0	6,462	6,462	0	0	0

TABLE 77

**Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
Private										
Embry-Riddle Aeronautical U.	5,829	1,706	4,075	48	0	5,829	1,706	4,075	48	0
Florida Institute of Technology	2,078	1,852	46	180	0	2,056	1,852	24	180	0
Nova Southeastern U.	1,727	777	511	436	3	981	496	49	436	0
U. Miami	40,772	30,019	3,522	7,230	1	37,559	27,843	2,928	6,788	0
Georgia										
Public										
Albany State U.	47	0	30	0	17	0	0	0	0	0
Augusta U.	6,466	5,656	0	810	0	6,328	5,535	0	793	0
Fort Valley State U.	37	37	0	0	0	37	37	0	0	0
Georgia Institute of Technology	145,585	33,794	106,074	3,530	2,187	137,685	31,129	102,034	2,745	1,777
Georgia Southern U.	146	142	0	4	0	146	142	0	4	0
Georgia State U.	15,046	9,207	1,109	2,753	1,977	12,473	8,816	352	1,831	1,474
Kennesaw State U.	88	73	0	0	15	73	73	0	0	0
Savannah State U.	71	71	0	0	0	71	71	0	0	0
U. Georgia	29,326	23,092	402	4,016	1,816	27,287	21,583	376	3,962	1,366
U. North Georgia	0	0	0	0	0	0	0	0	0	0
Private										
Clark Atlanta U.	277	277	0	0	0	277	277	0	0	0
Emory U.	117,260	49,432	27,043	31,039	9,746	92,823	44,719	17,036	21,907	9,161
Mercer U.	3,508	9	3,499	0	0	3,225	9	3,216	0	0
Morehouse C.	298	298	0	0	0	298	298	0	0	0
Morehouse School of Medicine	1,208	1,093	0	115	0	1,110	1,016	0	94	0
Spelman C.	174	174	0	0	0	174	174	0	0	0
Hawaii										
Public										
U. Hawaii, Hilo	240	0	0	108	132	240	0	0	108	132
U. Hawaii, Manoa	11,285	4,475	4,362	1,684	764	10,694	4,475	4,238	1,433	548
U. Hawaii, Maui C.	58	0	58	0	0	58	0	58	0	0
U. Hawaii, system office	464	0	0	464	0	464	0	0	464	0
Private										
Hawaii Pacific U.	431	431	0	0	0	431	431	0	0	0

TABLE 77

**Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
Idaho										
Public										
Boise State U.	2,267	2,096	11	160	0	2,215	2,044	11	160	0
Idaho State U.	302	275	0	24	3	302	275	0	24	3
U. Idaho	10,324	9,331	106	141	746	9,393	8,400	106	141	746
Illinois										
Public										
Illinois State U.	4,433	852	274	1,851	1,456	4,184	842	239	1,816	1,287
Northeastern Illinois U.	19	0	0	0	19	19	0	0	0	19
Northern Illinois U.	233	233	0	0	0	233	233	0	0	0
Southern Illinois U., Carbondale	1,442	749	0	0	693	875	182	0	0	693
Southern Illinois U., Edwardsville	248	180	68	0	0	235	180	55	0	0
U. Illinois, Chicago	25,084	13,015	4,679	4,421	2,969	15,386	10,444	221	3,041	1,680
U. Illinois, Springfield	0	0	0	0	0	0	0	0	0	0
U. Illinois, Urbana-Champaign	90,512	55,657	21,339	9,099	4,417	82,097	53,084	20,048	7,708	1,257
Western Illinois U.	1,508	1,157	160	88	103	1,508	1,157	160	88	103
Private										
DePaul U.	1,405	220	0	597	588	928	141	0	563	224
Erikson Institute	0	0	0	0	0	0	0	0	0	0
Illinois Institute of Technology	3,875	2,173	747	804	151	3,809	2,143	747	768	151
Loyola U., Chicago	3,033	2,024	0	202	807	2,606	1,766	0	103	737
Midwestern U.	68	68	0	0	0	68	68	0	0	0
Northwestern U.	89,210	2,197	1,794	85,219	0	82,345	202	29	82,114	0
Rosalind Franklin U. of Medicine and Science	589	589	0	0	0	589	589	0	0	0
Rush U.	12,087	7,440	312	3,959	376	10,624	6,507	291	3,450	376
Toyota Technological Institute, Chicago	189	189	0	0	0	189	189	0	0	0
U. Chicago	63,885	37,290	441	23,694	2,460	61,670	36,395	440	22,635	2,200
Wheaton C., Wheaton	28	28	0	0	0	28	28	0	0	0
Indiana										
Public										
Ball State U.	349	349	0	0	0	304	304	0	0	0



TABLE 77

**Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
Murray State U.	1,239	253	0	986	0	1,239	253	0	986	0
Northern Kentucky U.	15	0	0	15	0	15	0	0	15	0
U. Kentucky	24,324	16,982	1,858	4,951	533	22,297	15,667	1,413	4,684	533
U. Louisville	8,841	5,536	1,309	1,231	765	8,790	5,511	1,298	1,222	759
Western Kentucky U.	0	0	0	0	0	0	0	0	0	0
Louisiana										
Public										
Grambling State U.	20	20	0	0	0	20	20	0	0	0
Louisiana State U., Baton Rouge	13,409	12,532	246	501	130	12,083	11,447	160	346	130
Louisiana State U., Health Sciences Center, New Orleans	5,217	3,412	0	1,641	164	4,500	2,704	0	1,632	164
Louisiana State U., Health Sciences Center, Shreveport	554	325	0	229	0	530	301	0	229	0
Louisiana Tech U.	308	301	7	0	0	305	298	7	0	0
Northwestern State U. Louisiana	0	0	0	0	0	0	0	0	0	0
Southeastern Louisiana U.	83	83	0	0	0	83	83	0	0	0
Southern U. and A&M C., Agricultural Research and Extension Center	375	375	0	0	0	375	375	0	0	0
Southern U. and A&M C., Baton Rouge	70	17	53	0	0	70	17	53	0	0
U. Louisiana, Lafayette	3,763	2,688	971	0	104	3,579	2,557	918	0	104
U. Louisiana, Monroe	119	119	0	0	0	119	119	0	0	0
U. New Orleans	1,142	127	243	220	552	747	124	5	66	552
Private										
Dillard U.	0	0	0	0	0	0	0	0	0	0
Tulane U.	14,855	8,796	2,945	733	2,381	10,232	7,145	1,548	624	915
Xavier U. Louisiana	79	79	0	0	0	79	79	0	0	0
Maine										
Public										
U. Maine	5,016	3,840	574	602	0	3,944	3,012	541	391	0
U. Southern Maine	0	0	0	0	0	0	0	0	0	0
Private										
Bates C.	499	499	0	0	0	499	499	0	0	0

TABLE 77

**Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
Bowdoin C.	134	25	0	109	0	134	25	0	109	0
Colby C.	308	0	0	263	45	45	0	0	0	45
U. New England	143	25	13	55	50	122	25	13	34	50
Maryland										
Public										
Bowie State U.	0	0	0	0	0	0	0	0	0	0
Morgan State U.	1,638	1,470	133	35	0	1,578	1,470	73	35	0
Salisbury U.	146	81	0	65	0	65	0	0	65	0
Towson U.	292	93	107	0	92	292	93	107	0	92
U. Baltimore	2,676	605	32	1,424	615	2,644	605	0	1,424	615
U. Maryland <sup>c</sup>	120,812	89,005	14,622	4,915	12,270	100,470	73,114	13,167	4,574	9,615
U. Maryland Center for Environmental Science	2,631	1,951	285	282	113	2,200	1,724	285	78	113
U. Maryland, Baltimore County	6,351	4,813	1,191	210	137	5,035	4,389	380	210	56
U. Maryland, Eastern Shore	2,655	0	0	0	2,655	2,655	0	0	0	2,655
U.S. Naval Academy	0	0	0	0	0	0	0	0	0	0
Uniformed Services U. of the Health Sciences	0	0	0	0	0	0	0	0	0	0
Private										
Johns Hopkins U. <sup>d</sup>	182,548	103,641	i 18,090	i 37,365	i 23,452	i 152,270	i 90,512	i 14,058	i 29,151	i 18,549
Massachusetts										
Public										
Framingham State U.	0	i 0	i 0	i 0	i 0	i 0	i 0	i 0	i 0	i 0
U. Massachusetts, Amherst	11,585	7,364	1,993	1,355	873	9,511	6,127	1,494	1,130	760
U. Massachusetts, Boston	6,313	2,942	968	2,169	234	3,170	1,299	470	1,167	234
U. Massachusetts, central office	289	160	0	129	0	58	58	0	0	0
U. Massachusetts, Dartmouth	438	111	245	74	8	248	111	55	74	8
U. Massachusetts, Lowell	5,633	2,522	1,564	1,508	39	4,605	2,083	1,160	1,323	39
U. Massachusetts, Medical School	77,881	28,596	38,291	10,994	0	77,227	28,337	38,291	10,599	0
Private										
Amherst C.	16	16	0	0	0	16	16	0	0	0
Babson C.	NA	NA	NA	NA	NA	0	0	0	0	0

TABLE 77

**Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
Boston C.	8,563	3,434	75	3,195	1,859	6,070	2,870	0	2,787	413
Boston U.	163,053	39,696	101,793	21,330	234	119,359	33,722	68,149	17,323	165
Brandeis U.	4,490	3,044	167	1,024	255	3,339	2,400	150	669	120
Clark U.	282	227	55	0	0	261	206	55	0	0
Franklin W. Olin C. of Engineering	6	6	0	0	0	6	6	0	0	0
Harvard U.	152,260	55,396	4,761	30,037	62,066	119,192	45,055	4,554	24,172	45,411
Massachusetts Institute of Technology	12,130	3,862	5,643	2,625	0	10,506	3,840	5,380	1,286	0
MGH Institute of Health Professions	424	424	0	0	0	424	424	0	0	0
Mount Holyoke C.	5	0	0	5	0	5	0	0	5	0
New England C. of Optometry	255	255	0	0	0	255	255	0	0	0
Northeastern U.	31,622	15,295	4,506	11,244	577	30,908	14,850	4,484	11,081	493
Smith C.	61	39	0	22	0	61	39	0	22	0
Suffolk U.	461	67	0	394	0	416	22	0	394	0
Tufts U.	25,874	505	172	894	24,303	22,001	504	0	24	21,473
Wellesley C.	42	42	0	0	0	42	42	0	0	0
Williams C.	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Woods Hole Oceanographic Institution	37,417	33,194	1,254	1,069	1,900	36,580	32,834	1,048	831	1,867
Worcester Polytechnic Institute	6,492	3,798	786	1,908	0	5,451	3,596	687	1,168	0
Michigan										
Public										
Central Michigan U.	2,349	1,995	0	0	354	2,346	1,995	0	0	351
Eastern Michigan U.	830	830	0	0	0	799	799	0	0	0
Grand Valley State U.	88	70	18	NA	NA	88	70	18	0	0
Michigan State U.	43,928	25,171	3,031	10,061	5,665	39,428	23,132	2,724	8,878	4,694
Michigan Technological U.	6,225	3,371	2,651	89	114	5,892	3,109	2,651	83	49
Northern Michigan U.	50	50	0	0	0	50	50	0	0	0
Oakland U.	472	412	13	47	0	466	412	13	41	0
Saginaw Valley State U.	384 i	0 i	98 i	0 i	286 i	384 i	0 i	98 i	0 i	286 i
U. Michigan, Ann Arbor	110,936	82,750	6,638	19,063	2,485	101,807	76,422	5,595	18,315	1,475
U. Michigan, Dearborn	73	73	0	0	0	16	16	0	0	0
U. Michigan, Flint	0	0	0	0	0	0	0	0	0	0
Wayne State U.	9,376	5,789	162	3,425	0	7,513	5,641	151	1,721	0



TABLE 77

**Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
Western Michigan U. and Homer Stryker M.D. School of Medicine	1,621	864	679	33	45	1,621	864	679	33	45
Private										
Albion C.	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Andrews U.	6	6	0	0	0	6	6	0	0	0
Calvin U.	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Hope C.	83	72	0	11	0	11	0	0	11	0
Kettering U.	22 i	10 i	0 i	12 i	0 i	22 i	10 i	0 i	12 i	0 i
Lawrence Technological U.	0	0	0	0	0	0	0	0	0	0
U. Detroit Mercy	588	574	0	0	14	588	574	0	0	14
Van Andel Research Institute	1,846	900	0	816	130	1,200	900	0	300	0
Minnesota										
Public										
Minnesota State U., Mankato	373 i	203 i	73 i	50 i	47 i	330 i	183 i	62 i	45 i	40 i
St. Cloud State U.	251	17	0	0	234	47	17	0	0	30
U. Minnesota, Duluth	146	77 i	28 i	25 i	16 i	37	23 i	5 i	5 i	4 i
U. Minnesota, Morris	13	0 i	0 i	0 i	13 i	0	0 i	0 i	0 i	0 i
U. Minnesota, Twin Cities	99,238	55,730 i	18,943 i	13,297 i	11,268 i	84,562	48,130 i	16,027 i	11,311 i	9,094 i
Private										
C. of Saint Benedict	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Carleton C.	73	73	0	0	0	73	73	0	0	0
Macalester C.	13	13	0	0	0	13	13	0	0	0
Saint John's U.	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
St. Olaf C.	35	35	0	0	0	35	35	0	0	0
U. of St. Thomas (MN)	102	25	77	0	0	94	17	77	0	0
Mississippi										
Public										
Alcorn State U.	412	412	0	0	0	412	412	0	0	0
Jackson State U.	1,718	1,624	74	20	0	1,718	1,624	74	20	0
Mississippi State U.	19,840	13,542	3,952	2,259	87	19,125	13,240	3,922	1,914	49
U. Mississippi	5,546	4,776	125	603	42	5,206	4,619	79	466	42
U. Southern Mississippi	10,629	9,497	787	223	122	10,243	9,127	771	223	122





TABLE 77

**Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
New Mexico Highlands U.	0	0	0	0	0	0	0	0	0	0
New Mexico Institute of Mining and Technology	3,677	2,852	674	0	151	3,677	2,852	674	0	151
New Mexico State U.	9,906	4,214	3,768	812	1,112	9,575	4,011	3,768	812	984
U. New Mexico	70,120	32,608	18,032	16,062	3,418	67,489	32,013	17,996	15,109	2,371
New York										
Public										
CUNY, Advanced Science Research Center	2,273	2,078	24	76	95	2,273	2,078	24	76	95
CUNY, Baruch C.	0	0	0	0	0	0	0	0	0	0
CUNY, Brooklyn C.	330	258	0	72	0	241	241	0	0	0
CUNY, C. Staten Island	376	80	0	291	5	298	80	0	213	5
CUNY, City C.	7,940	4,253	2,161	1,465	61	5,441	4,178	32	1,170	61
CUNY, Graduate Center	348	2	0	0	346	324	0	0	0	324
CUNY, Graduate School of Public Health and Health Policy	529	322	2	194	11	463	290	2	160	11
CUNY, Hunter C.	2,459	1,178	15	1,144	122	2,413	1,141	15	1,144	113
CUNY, John Jay C. of Criminal Justice	1,265	714	108	325	118	714	477	108	102	27
CUNY, Lehman C.	153	153	0	0	0	153	153	0	0	0
CUNY, New York City C. of Technology	110	110	0	0	0	110	110	0	0	0
CUNY, Queens C.	1,444	467	289	688	0	1,368	391	289	688	0
CUNY, system office	389	389	0	0	0	389	389	0	0	0
CUNY, York C.	16	0	0	16	0	16	0	0	16	0
SUNY, Binghamton U.	6,967	1,258	5,204	0	505	4,031	1,258	2,372	0	401
SUNY, Buffalo State	47	47	0	0	0	47	47	0	0	0
SUNY, C. Brockport	0	0	0	0	0	0	0	0	0	0
SUNY, C. of Environmental Science and Forestry	1,067	729	320	18	0	396	281	97	18	0
SUNY, C. of Optometry	31	31	0	0	0	31	31	0	0	0
SUNY, C. Plattsburgh	158	71	0	0	87	158	71	0	0	87
SUNY, Downstate Health Sciences U.	8,206	7,690	27	0	489	8,179	7,690	0	0	489
SUNY, Geneseo	65	65	0	0	0	65	65	0	0	0
SUNY, Oswego	0	0	0	0	0	0	0	0	0	0

TABLE 77

**Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
SUNY, Polytechnic Institute	18,123	12,284	5,753	86	0	9,251	3,997	5,254	0	0
SUNY, Stony Brook U.	22,010	18,709	1,205	1,430	666	21,312	18,636	735	1,304	637
SUNY, U. Albany	10,130	7,103	1,345	1,292	390	9,182	6,722	1,202	888	370
SUNY, U. Buffalo	20,835	10,228	2,567	5,443	2,597	15,641	9,798	932	4,911	0
SUNY, Upstate Medical U.	1,525	1,326	128	71	0	1,512	1,317	128	67	0
U.S. Military Academy	614	324	80	210	0	614	324	80	210	0
Private										
Albany C. of Pharmacy and Health Sciences	589	323	0	0	266	589	323	0	0	266
Albany Medical C.	726	370	0	356	0	726	370	0	356	0
Albert Einstein C. of Medicine	33,032	26,752	2,057	3,910	313	30,767	25,339	1,966	3,162	300
Alfred U.	33	13	20	0	0	13	13	0	0	0
Barnard C.	994	977	0	17	0	977	977	0	0	0
Canisius C.	0	0	0	0	0	0	0	0	0	0
Clarkson U.	1,241	672	151	304	114	780	311	51	304	114
Cold Spring Harbor Laboratory	8,280 i	4,788 i	1,703 i	1,679 i	110 i	7,523 i	4,788 i	1,181 i	1,460 i	94 i
Colgate U.	72	72	0	0	0	72	72	0	0	0
Columbia U. in the City of New York	128,876	68,579	1,899	40,418	17,980	115,810	64,352	1,518	38,631	11,309
Cornell U.	99,822	58,905	9,246	19,174	12,497	82,123	53,864	7,606	16,709	3,944
Fordham U.	899	896	0	3	0	821	818	0	3	0
Hamilton C.	18	18	0	0	0	18	18	0	0	0
Hobart and William Smith Colleges	54	10	0	11	33	0	0	0	0	0
Hofstra U.	43	25	0	6	12	25	25	0	0	0
Icahn School of Medicine at Mount Sinai	89,101	50,262	5,693	26,007	7,139	85,338	48,577	5,689	24,093	6,979
Ithaca C.	95	13	0	40	42	95	13	0	40	42
Long Island U.	459	386	0	73	0	459	386	0	73	0
Manhattan C.	11	11	0	0	0	0	0	0	0	0
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	0	0	0	0	0	0	0	0	0	0
New School	1,891	240	0	1,651	0	52	52	0	0	0
New York Institute of Technology	77	77	0	0	0	77	77	0	0	0

TABLE 77

**Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
New York Medical C.	961	837	124	0	0	961	837	124	0	0
New York U.	91,622	21,918	1,261	62,699	5,744	84,016	20,829	35	58,204	4,948
Niagara U.	0	0	0	0	0	0	0	0	0	0
Pace U.	856	328	0	528	0	856	328	0	528	0
Pratt Institute	0	0	0	0	0	0	0	0	0	0
Rensselaer Polytechnic Institute	9,020	6,413	811	1,118	678	8,356	6,085	709	1,118	444
Rochester Institute of Technology	2,307	1,595	275	183	254	2,165	1,457	274	180	254
Rockefeller U.	12,733	6,270	153	4,367	1,943	8,217	5,080	153	2,626	358
Skidmore C.	171	93	0	78	0	125	47	0	78	0
St. John's U., New York	23 i	23 i	0 i	0 i	0 i	23 i	23 i	0 i	0 i	0 i
Syracuse U.	4,240	2,567	559	1,083	31	2,916	2,216	369	300	31
Teachers C., Columbia U.	4,798	1,917	0	2,388	493	1,218	829	0	271	118
U. Rochester	32,781	23,051	917	5,837	2,976	29,358	21,046	635	4,987	2,690
Union C., Schenectady	0	0	0	0	0	0	0	0	0	0
Vassar C.	205	205	0	0	0	205	205	0	0	0
Yeshiva U.	0	0	0	0	0	0	0	0	0	0
North Carolina										
Public										
Appalachian State U.	95	35	12	48	0	75	15	12	48	0
East Carolina U.	3,070	2,082	7	797	184	2,887	1,917	0	786	184
Elizabeth City State U.	0	0	0	0	0	0	0	0	0	0
Fayetteville State U.	0	0	0	0	0	0	0	0	0	0
North Carolina Agricultural and Technical State U.	3,288	2,680	259	349	0	3,225	2,617	259	349	0
North Carolina Central U.	337	129	95	0	113	242	129	0	0	113
North Carolina State U.	42,196	91 i	18,410 i	12,958 i	10,737 i	37,873	91 i	16,619 i	11,732 i	9,431 i
U. North Carolina, Asheville	478	3	0	475	0	151	3	0	148	0
U. North Carolina, Chapel Hill	139,562	74,471	26,821	28,846	9,424	128,528	71,310	25,836	25,385	5,997
U. North Carolina, Charlotte	3,744	3,530	130	0	84	3,651	3,437	130	0	84
U. North Carolina, general administration	3,903	3,903	0	0	0	287	287	0	0	0
U. North Carolina, Greensboro	3,198	1,264	516	1,105	313	3,119	1,258	516	1,079	266
U. North Carolina, Wilmington	1,465	824	78	563	0	918	824	78	16	0



TABLE 77

**Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
Oberlin C.	0	0	0	0	0	0	0	0	0	0
U. Dayton	37,614	6,752	30,423	335	104	37,601	6,739	30,423	335	104
Oklahoma										
Public										
Langston U.	105	91	14	0	0	105	91	14	0	0
Oklahoma State U., Center for Health Sciences	361	222	41	0	98	351	212	41	0	98
Oklahoma State U., Stillwater	6,394	4,842	744	367	441	5,447	4,235	468	367	377
U. Central Oklahoma	0	0	0	0	0	0	0	0	0	0
U. Oklahoma, Norman and Health Science Center	56,816	17,041	33,244	5,222	1,309	54,494	15,635	32,530	5,035	1,294
U. Oklahoma, Tulsa	6	6	0	0	0	0	0	0	0	0
Private										
U. Tulsa	877	824	53	0	0	818	818	0	0	0
Oregon										
Public										
Oregon Health and Science U.	60,864	36,541	15,399	6,536	2,388	54,078	32,508	13,220	6,338	2,012
Oregon Institute of Technology	0	0	0	0	0	0	0	0	0	0
Oregon State U.	20,344	14,021	4,160	1,246	917	18,694	12,611	4,125	1,219	739
Portland State U.	5,023	4,122	335	156	410	4,804	4,057	211	129	407
U. Oregon	7,579	6,075	56	1,448	0	7,340	5,857	50	1,433	0
Private										
Lewis and Clark C.	0	0	0	0	0	0	0	0	0	0
National U. of Natural Medicine	0	0	0	0	0	0	0	0	0	0
Pacific U.	282	282	0	0	0	282	282	0	0	0
Reed C.	24	24	0	0	0	24	24	0	0	0
Willamette U.	196	196	0	0	0	196	196	0	0	0
Pennsylvania										
Public										
Indiana U. Pennsylvania	156	137	19	0	0	119	100	19	0	0
Pennsylvania State U., Behrend	654	367	154	68	65	562	347	102	51	62
Pennsylvania State U., Harrisburg	712	12	0	0	700	12	12	0	0	0



TABLE 77

**Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	Total						Federally financed					
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients		All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	
Pennsylvania State U., University Park and Hershey Medical Center	72,503	40,490	14,005	9,855	8,153		67,838	38,609	12,857	9,077	7,295	
Temple U.	13,758	9,427	1,032	2,295	1,004		12,029	8,621	347	2,058	1,003	
U. Pittsburgh, Pittsburgh	97,623	66,774	6,931	20,696	3,222		92,131	63,017	6,541	19,532	3,041	
U.S. Army War C.	0	0	0	0	0		0	0	0	0	0	
West Chester U. Pennsylvania	13	13	0	0	0		3	3	0	0	0	
Private												
Arcadia U.	53	10	0	43	0		1	0	0	1	0	
Bryn Mawr C.	551	0	0	551	0		551	0	0	551	0	
Bucknell U.	171	87	0	84	0		64	64	0	0	0	
Carnegie Mellon U.	23,889	19,398	2,259	1,080	1,152		21,887	17,928	2,229	668	1,062	
Drexel U.	18,393	10,243	2,022	4,230	1,898		15,319	9,227	1,310	3,795	987	
Duquesne U.	599	564	0	35	0		556	526	0	30	0	
Franklin and Marshall C.	0	0	0	0	0		0	0	0	0	0	
Haverford C.	0	0	0	0	0		0	0	0	0	0	
Lafayette C.	11	11	0	0	0		11	11	0	0	0	
Lehigh U.	3,076	2,575	435	66	0		1,979	1,478	435	66	0	
Mercyhurst U.	82	0	23	33	26		45	0	10	22	13	
Philadelphia C. of Osteopathic Medicine	0	0	0	0	0		0	0	0	0	0	
Saint Joseph's U.	254	248	0	6	0		248	248	0	0	0	
Swarthmore C.	180	180	0	0	0		141	141	0	0	0	
Thomas Jefferson U.	15,669	8,567	168	3,955	2,979		13,656	7,289	72	3,462	2,833	
U. of the Sciences Philadelphia	4	4	0	0	0		0	0	0	0	0	
U. Pennsylvania	109,287	64,367	5,005	31,012	8,903		93,388	57,833	3,807	25,920	5,828	
Villanova U.	771	507	87	177	0		473	290	6	177	0	
Rhode Island												
Public												
Naval War C.	0	0	0	0	0		0	0	0	0	0	
Rhode Island C.	407	154	0	253	0		156	98	0	58	0	
U. Rhode Island	18,408	7,707	918	7,016	2,767		17,426	7,237	913	6,876	2,400	
Private												
Brown U.	37,445	20,519	3,004	13,048	874		34,059	20,190	2,460	10,535	874	

TABLE 77

**Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
Providence C.	0	0	0	0	0	0	0	0	0	0
Rhode Island School of Design	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Roger Williams U.	134	101	0	33	0	84	51	0	33	0
South Carolina										
Public										
C. Charleston	1,155	1,115	40	0	0	1,143	1,115	28	0	0
Citadel Military C. South Carolina	0	0	0	0	0	0	0	0	0	0
Clemson U.	14,152	5,710 i	2,369 i	3,719 i	2,354 i	10,882	5,710 i	2,087 i	731 i	2,354 i
Coastal Carolina U.	120	120	0	0	0	120	120	0	0	0
Medical U. South Carolina	20,895	12,145	3,215	2,717	2,818	19,441	11,467	2,859	2,331	2,784
South Carolina State U.	627 i	531 i	54 i	36 i	6 i	627 i	531 i	54 i	36 i	6 i
U. South Carolina, Aiken	93	93	0	0	0	93	93	0	0	0
U. South Carolina, Columbia	17,047	13,453	584	2,020	990	14,622	12,356	503	1,284	479
Winthrop U.	0	0	0	0	0	0	0	0	0	0
Private										
Clafin U.	27	27	0	0	0	27	27	0	0	0
Furman U.	0	0	0	0	0	0	0	0	0	0
South Dakota										
Public										
Black Hills State U.	0	0	0	0	0	0	0	0	0	0
Dakota State U.	250	250	0	0	0	250	250	0	0	0
South Dakota School of Mines and Technology	2,797	2,749	0	46	2	2,684	2,636	0	46	2
South Dakota State U.	1,287	1,044	0	18	225	983	754	0	17	212
U. South Dakota	3,180	2,201	80	899	0	3,029	2,201	80	748	0
Private										
Augustana U.	0	0	0	0	0	0	0	0	0	0
Tennessee										
Public										
Austin Peay State U.	0	0	0	0	0	0	0	0	0	0
East Tennessee State U.	383	380	3	0	0	310	310	0	0	0
Middle Tennessee State U.	708	669	39	0	0	708	669	39	0	0

TABLE 77

**Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
Tennessee State U.	191 i	97 i	87 i	0 i	7 i	102 i	86 i	9 i	0 i	7 i
Tennessee Technological U.	788	333	309	0	146	788	333	309	0	146
U. Memphis	3,059	2,328	532	199	0	2,653	2,306	282	65	0
U. Tennessee, Chattanooga	161	161	0	0	0	161	161	0	0	0
U. Tennessee, Health Science Center	8,321	7,086	486 i	343 i	406 i	8,012	6,909	486 i	343 i	274 i
U. Tennessee, Knoxville	16,078	13,439	1,150 i	841 i	648 i	15,399	13,013	1,049 i	740 i	597 i
Private										
Fisk U.	243	243	0	0	0	243	243	0	0	0
Lipscomb U.	3	0	0	0	3	3	0	0	0	3
Meharry Medical C.	905	654	0	251	0	878	654	0	224	0
Vanderbilt U. and Vanderbilt U. Medical Center	113,820	81,588	1,918	27,210	3,104	103,851	73,393	1,809	25,616	3,033
Texas										
Public										
Lamar U.	0	0	0	0	0	0	0	0	0	0
Prairie View A&M U.	656	656	0	0	0	656	656	0	0	0
Sam Houston State U.	155	60	0	0	95	155	60	0	0	95
Stephen F. Austin State U.	0	0	0	0	0	0	0	0	0	0
Sul Ross State U.	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Tarleton State U.	257	16	0	0	241	150	16	0	0	134
Texas A&M International U.	21	21	0	0	0	21	21	0	0	0
Texas A&M U., College Station and Health Science Center	153,247	28,862	117,434	2,987	3,964	136,059	25,808	104,890	2,331	3,030
Texas A&M U.-Commerce	67	67	0	0	0	67	67	0	0	0
Texas A&M U.-Corpus Christi	1,733	843	859	12	19	871	652	198	2	19
Texas A&M U.-Kingsville	808	783	0	4	21	769	744	0	4	21
Texas Southern U.	812	657	0	21	134	657	657	0	0	0
Texas State U.	4,302	1,897	1,899	291	215	4,093	1,857	1,899	157	180
Texas Tech U.	5,025	2,808	2,029	81	107	3,186	1,045	2,016	21	104
Texas Tech U., Health Sciences Center	863	815	48	0	0	819	771	48	0	0
Texas Tech U., Health Sciences Center, El Paso	192	0	0	20	172	51	0	0	20	31







TABLE 77

**Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
Private										
Marquette U.	1,738	1,414	137	187	0	1,564	1,319	137	108	0
Medical C. Wisconsin	30,017	9,802	4,351	15,864	0	29,336	9,205	4,351	15,780	0
Milwaukee School of Engineering	18	18	0	0	0	18	18	0	0	0
Northland C.	13 i	0 i	2 i	9 i	2 i	11 i	0 i	2 i	7 i	2 i
Wyoming										
Public										
U. Wyoming	8,512	5,595	2,348	509	60	8,313	5,542	2,202	509	60
American Samoa										
Public										
American Samoa Community C.	0	0	0	0	0	0	0	0	0	0
Guam										
Public										
U. Guam	161	76	85	0	0	0	0	0	0	0
Puerto Rico										
Public										
U. Puerto Rico, Cayey	305	305	0	0	0	305	305	0	0	0
U. Puerto Rico, Humacao	241	241	0	0	0	241	241	0	0	0
U. Puerto Rico, Mayaguez	2,197	2,088	0	0	109	2,088	2,088	0	0	0
U. Puerto Rico, Medical Sciences Campus	1,587	797	790	0	0	1,587	797	790	0	0
U. Puerto Rico, Rio Piedras	2,075	2,075	0	0	0	1,985	1,985	0	0	0
Private										
Albizu U.	0	0	0	0	0	0	0	0	0	0
Ponce Health Sciences U.	0	0	0	0	0	0	0	0	0	0
U. Ana G. Mendez, Gurabo	8	8	0	0	0	8	8	0	0	0
U. Central del Caribe	0	0	0	0	0	0	0	0	0	0
Virgin Islands										
Public										
U. of the Virgin Islands	2,688	1,963	700	25	0	1,707	982	700	25	0

i = imputed. NA = not available; data were not provided by institution.

<sup>a</sup> The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

<sup>b</sup> The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

<sup>c</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

<sup>d</sup> Johns Hopkins University includes the Applied Physics Laboratory, with zero in both total and federally financed R&D expenditures passed through to subrecipients in FY 2021.

**Note(s):**

This table includes only institutions reporting \$1 million or more in total R&D expenditures in 2020. Institutions reporting less than \$1 million in total R&D expenditures in 2020 completed a shorter version of the survey form in FY 2021, and that form requested R&D expenditures passed through only to higher education institutions. For a list of R&D expenditures passed through to higher education institutions at institutions completing the shorter version of the survey, see [table 85](#).

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2021.



TABLE 78

**FTEs and headcount of R&D personnel at higher education institutions, by personnel function: FY 2021**

(Number)

FTEs and headcounts	All personnel functions	Researchers	R&D technicians	R&D support staff
FTE R&D personnel	468,545	190,334	180,234	97,977
All R&D personnel headcounts	963,477	358,098	363,196	242,183

FTEs = full-time equivalents.

**Note(s):**

FTE R&amp;D personnel are calculated as the total working effort spent on R&amp;D during a specific period divided by the total effort representing a full-time schedule within the same period.

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2021.

TABLE 79

**Higher education R&D expenditures in science and engineering fields, ranked by FY 2021 R&D expenditures: FYs 2010–21**

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
All institutions	-	58,387,551	61,988,017	62,198,981	63,354,270	63,766,035	64,935,455	67,634,588	70,846,590	74,381,325	78,633,170	81,277,287	84,610,017
Johns Hopkins U. <sup>a</sup>	1	1,997,252	2,135,547	2,092,999	2,149,770	2,227,536	2,299,057	2,425,199	2,556,641	2,656,152	2,913,280	3,104,669	3,174,937
U. California, San Francisco	2	935,509	995,226	1,032,673	1,042,841	1,084,031	1,126,620	1,294,261	1,409,398	1,595,732	1,595,098	1,651,073	1,710,036
U. Michigan, Ann Arbor	3	1,128,686	1,212,990	1,247,680	1,304,074	1,279,603	1,300,340	1,357,228	1,434,535	1,493,353	1,571,320	1,572,931	1,521,417
U. Pennsylvania	4	793,523	851,522	813,210	790,265	792,314	828,649	1,140,833	1,247,686	1,304,291	1,368,837	1,432,968	1,492,554
U. Washington, Seattle	5	995,036	1,112,526	1,065,414	1,111,508	1,091,135	1,101,078	1,197,773	1,270,642	1,342,509	1,347,667	1,371,333	1,414,987
U. California, Los Angeles	6	899,677	942,450	969,682	934,135	920,183	992,009	1,002,013	1,037,780	1,242,619	1,249,535	1,338,707	1,396,451
U. California, San Diego	7	937,982	1,003,584	1,065,306	1,066,979	1,060,207	1,093,784	1,079,429	1,126,269	1,256,171	1,344,185	1,395,348	1,385,097
U. Wisconsin-Madison	8	940,286	1,022,723	1,030,605	997,523	984,830	938,366	1,051,311	1,105,261	1,113,968	1,209,224	1,272,053	1,294,884
Stanford U.	9	810,300	868,393	854,580	900,547	912,244	969,643	1,012,351	1,055,418	1,106,314	1,158,689	1,159,809	1,230,009
Duke U.	10	980,514	1,018,241	1,004,759	987,393	1,031,404	1,029,193	1,044,046	1,113,921	1,153,947	1,212,928	1,180,209	1,222,283
Ohio State U.	11	719,574	794,023	720,082	743,321	752,836	745,238	751,293	804,699	818,428	876,402	914,199	1,176,605
U. North Carolina, Chapel Hill	12	746,828	846,499	864,748	942,467	955,601	939,252	1,013,128	1,061,535	1,094,063	1,113,654	1,115,776	1,160,524
Yale U.	13	621,125	654,259	654,824	787,609	764,002	792,953	865,970	930,569	972,856	1,056,640	1,079,696	1,147,777
Harvard U.	14	561,703	623,116	753,973	910,569	875,964	955,246	1,011,950	1,032,590	1,066,612	1,129,158	1,116,344	1,144,925
Cornell U.	15	747,199	779,809	799,794	841,224	874,727	946,419	956,184	963,166	1,033,740	1,103,810	1,147,119	1,143,319
U. Texas M. D. Anderson Cancer Center	16	599,529	663,279	685,814	718,096	794,980	833,406	852,095	888,029	929,710	969,496	1,051,297	1,124,971
U. Pittsburgh, Pittsburgh	17	806,014	880,425	839,793	846,556	835,838	852,333	880,508	930,198	995,762	1,068,746	1,092,847	1,124,822
Texas A&M U., College Station and Health Science Center	18	666,516	682,553	669,968	796,101	826,152	836,250	859,952	869,100	882,191	911,375	1,089,944	1,108,197
U. Maryland <sup>b</sup>	19	na	na	na	na	na	na	na	na	na	1,047,276	1,047,911	1,087,629
Georgia Institute of Technology	20	611,226	650,588	683,894	726,377	720,248	757,116	780,118	785,603	859,009	931,076	1,017,808	1,086,161
Columbia U. in the City of New York	21	770,888	841,173	847,809	845,847	844,766	826,010	793,710	848,733	908,771	965,696	981,906	1,043,130
U. Minnesota, Twin Cities	22	764,916	824,489	806,832	834,181	850,880	844,016	872,514	881,286	915,798	970,212	999,314	1,034,743
New York U.	23	343,762	402,327	425,043	435,095	490,614	505,071	751,393	822,329	801,961	845,249	858,190	986,894
Vanderbilt U. and Vanderbilt U. Medical Center	24	478,345	534,806	533,878	548,086	659,418	619,866	612,351	681,286	702,128	730,378	774,717	968,571
Washington U., Saint Louis	25	693,749	707,404	689,035	665,484	646,756	680,150	726,622	740,005	797,267	866,478	894,681	960,656
Pennsylvania State U., University Park and Hershey Medical Center	26	762,041	776,945	783,894	825,011	785,705	774,384	809,985	826,683	885,661	924,031	970,457	936,007
U. Florida	27	636,607	686,048	649,988	642,502	652,341	699,750	741,945	766,469	831,362	880,771	889,677	919,504
U. Southern California	28	574,366	579,717	593,003	610,382	650,506	650,457	662,029	725,528	854,673	869,142	899,507	915,525
Massachusetts Institute of Technology	29	646,222	693,714	770,367	833,884	815,008	858,917	880,111	878,964	893,508	940,079	926,053	896,339
Northwestern U.	30	554,228	595,202	602,451	612,009	621,504	627,320	684,767	724,060	776,458	827,607	847,679	888,101
Emory U.	31	498,309	479,678	474,537	493,734	551,556	574,472	597,971	646,146	693,172	773,843	780,693	842,940
Icahn School of Medicine at Mount Sinai	32	370,666	405,527	400,680	428,654	463,429	508,353	540,296	575,448	640,141	722,241	747,014	820,260
U. California, Davis	33	669,282	698,193	704,999	715,870	699,689	706,087	726,070	726,469	774,775	791,184	804,674	805,386

TABLE 79

## Higher education R&amp;D expenditures in science and engineering fields, ranked by FY 2021 R&amp;D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
U. California, Berkeley	34	659,572	670,926	696,904	690,299	708,485	748,139	734,486	724,817	747,690	751,584	796,303	794,847
U. Arizona	35	577,958	597,988	615,434	616,487	575,864	592,874	592,412	609,965	672,038	715,290	743,233	741,376
Baylor C. of Medicine	36	447,874	466,061	474,700	508,799	496,314	520,220	572,527	604,952	623,396	651,920	685,641	716,976
U. Texas, Austin	37	531,412	558,377	549,312	572,959	526,173	551,654	565,708	598,597	617,567	619,929	726,915	709,163
U. Illinois, Urbana-Champaign	38	493,386	522,769	558,022	721,587	598,531	614,011	587,264	602,641	609,984	640,880	658,561	695,919
Michigan State U.	39	399,358	423,766	471,620	479,145	492,501	519,994	573,204	653,611	673,959	682,018	674,384	672,904
Indiana U., Bloomington	40	156,996	160,038	151,240	173,464	172,380	451,508	471,055	507,553	534,811	630,449	676,116	659,073
U. Alabama, Birmingham	41	483,862	497,680	449,108	434,882	421,475	509,586	531,492	553,651	575,060	595,361	608,545	636,451
U. Texas Southwestern Medical Center	42	419,220	431,883	435,085	440,620	434,627	438,824	442,666	461,797	474,260	496,697	595,939	632,134
Boston U.	43	344,687	348,593	330,247	359,312	353,850	372,267	379,117	398,754	435,864	508,813	554,084	625,491
Purdue U., West Lafayette	44	477,145	520,001	528,140	528,564	502,457	498,887	517,879	533,598	535,826	598,411	638,715	623,530
Rutgers, State U. New Jersey, New Brunswick	45	407,170	415,502	420,737	474,192	627,076	607,257	610,648	633,789	666,368	621,194	661,656	615,280
U. Utah	46	375,420	410,392	425,558	486,245	476,017	509,409	322,670	318,956	534,208	i 548,714	i 577,238	i 597,318
Arizona State U.	47	296,458	323,567	344,611	367,277	380,581	403,708	441,411	484,315	559,391	572,588	594,927	595,651
U. Colorado Anschutz Medical Campus <sup>c</sup>	48	na	na	na	na	na	na	na	na	na	na	na	561,527
U. Virginia, Charlottesville	49	271,843	377,757	363,569	366,103	337,732	339,813	367,926	431,793	490,902	547,179	584,678	551,703
Virginia Polytechnic Institute and State U.	50	393,888	445,302	448,054	487,121	502,486	495,502	512,333	511,340	520,575	532,154	546,172	531,482
U. Cincinnati	51	393,518	419,456	408,294	414,738	399,571	408,412	401,701	427,236	464,289	513,397	511,252	530,944
North Carolina State U.	52	357,802	374,446	400,046	413,524	440,392	462,347	479,039	488,974	497,851	523,124	528,089	529,307
U. Iowa	53	435,118	433,088	432,980	423,097	436,852	423,528	447,718	466,462	484,253	483,809	510,793	522,141
U. Colorado Boulder	54	335,983	372,034	373,512	369,663	362,882	403,654	433,850	474,496	488,883	486,073	496,549	519,045
U. Chicago	55	432,943	446,512	411,864	389,900	378,322	402,777	402,491	419,996	412,791	448,263	448,404	489,005
U. California, Irvine	56	311,105	328,870	335,874	329,500	322,315	313,798	325,582	339,309	399,295	422,781	456,453	487,480
Scripps Research Institute	57	387,298	400,768	398,673	399,899	386,231	384,161	364,670	354,582	396,839	427,734	444,964	485,435
SUNY, Polytechnic Institute	58	na	na	na	na	412,851	295,313	316,680	308,843	257,316	352,788	355,519	465,149
Oregon Health and Science U.	59	314,990	334,324	305,360	307,134	313,112	325,268	329,414	346,710	372,148	415,629	446,826	452,798
Colorado State U., Fort Collins	60	291,621	321,130	335,336	303,461	300,572	308,785	323,068	328,221	356,951	382,252	384,044	432,131
U. Georgia	61	274,380	300,388	311,498	308,486	313,445	330,273	360,520	403,575	390,773	414,909	419,656	429,421
California Institute of Technology	62	359,245	374,636	374,075	i 333,548	i 358,137	350,833	356,204	380,711	363,007	375,558	418,697	422,491
Case Western Reserve U.	63	417,805	428,206	430,246	422,041	417,436	400,167	403,827	406,196	430,379	435,852	437,725	419,933
U. Kentucky	64	350,857	364,175	354,132	332,366	322,313	325,558	340,295	367,934	382,973	398,384	406,131	418,800
U. Illinois, Chicago	65	355,581	373,750	381,918	358,797	339,644	344,619	314,365	352,200	343,254	365,409	396,061	411,904
SUNY, U. Buffalo	66	337,976	337,783	340,930	371,387	370,083	367,133	373,308	386,386	393,241	394,279	401,640	407,266
U. Rochester	67	412,704	428,144	388,401	382,399	347,161	344,921	344,489	351,924	369,072	392,275	395,774	407,058
Princeton U.	68	231,862	255,483	264,980	264,998	287,730	272,379	285,733	321,953	351,297	370,700	382,414	389,652

TABLE 79

**Higher education R&D expenditures in science and engineering fields, ranked by FY 2021 R&D expenditures: FYs 2010–21**

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Carnegie Mellon U.	69	221,376	240,956	254,992	270,898	250,497	241,829	304,383	313,145	318,218	346,356	373,131	386,540
Uniformed Services U. of the Health Sciences	70	134,126	175,365	143,250	164,232	262,489	361,173	256,203	298,370	308,326	417,300	324,510	384,490
U. Miami	71	278,664	321,830	361,772	338,568	342,852	328,082	355,690	365,310	355,132	358,621	380,470	375,130
Rockefeller U.	72	265,750	272,491	292,896	298,474	316,368	323,932	335,136	348,845	353,142	351,089	356,217	357,543
U. Missouri, Columbia	73	133,120	130,269	234,975	232,760	233,613	243,430	262,919	272,196	275,413	288,501	303,906	354,500
U. Massachusetts, Medical School	74	232,039	262,714	256,090	245,923	241,869	250,338	253,099	279,884	274,211	281,507	279,096	347,337
U. South Florida <sup>d</sup>	75	330,528	343,366	394,694	410,092	436,578	420,002	447,812	502,216	334,944	330,968	287,339	340,036
Iowa State U.	76	243,890	261,016	252,675	259,320	297,293	295,635	316,822	310,100	343,890	342,498	306,338	334,671
U. Oklahoma, Norman and Health Science Center	77	201,187	223,828	217,177	220,916	227,104	227,568	240,239	250,627	262,863	283,375	337,624	334,058
U. New Mexico	78	207,906	217,206	216,218	220,840	221,817	224,321	227,591	236,623	245,400	233,310	237,249	327,382
Washington State U.	79	285,120	299,905	288,693	273,037	287,942	i 306,989	307,431	288,629	289,326	302,309	294,831	324,631
Utah State U.	80	147,612	172,563	155,305	156,774	167,256	173,848	178,830	184,746	215,994	280,476	300,894	322,139
U. Texas Health Science Center, Houston	81	240,772	261,172	236,250	233,256	233,737	234,299	237,016	246,060	258,411	271,525	273,862	308,823
U. Kansas	82	251,992	248,076	256,310	267,050	251,186	257,766	241,656	251,140	269,494	282,642	292,485	304,800
Albert Einstein C. of Medicine	83	na	na	na	na	na	na	289,660	289,685	297,328	298,824	288,654	301,715
U. Connecticut	84	230,387	247,252	250,468	236,126	247,379	251,621	257,958	257,176	256,826	273,034	270,397	296,090
Dartmouth C. and Dartmouth Hitchcock Medical Center	85	193,608	210,274	195,251	198,995	204,360	203,660	224,497	277,638	287,951	284,843	285,551	292,979
Virginia Commonwealth U.	86	176,422	185,566	179,310	175,880	177,540	196,412	202,150	210,827	222,757	230,882	255,589	291,853
U. Tennessee, Knoxville <sup>e</sup>	87	133,877	i 151,814	165,708	175,264	170,471	166,591	177,240	199,356	233,705	221,726	292,314	287,374
Louisiana State U., Baton Rouge	88	280,432	281,221	279,019	276,748	282,462	274,001	282,574	258,402	278,075	287,203	277,811	283,507
Temple U.	89	115,543	122,663	126,288	207,190	206,556	210,371	232,379	249,156	253,548	263,217	274,258	280,000
Medical U. South Carolina	90	224,632	213,346	236,586	245,451	242,594	243,534	260,098	262,267	282,253	295,600	272,590	277,761
Medical C. Wisconsin	91	191,816	215,358	209,040	201,237	199,713	199,283	199,925	209,618	229,436	251,300	264,325	276,850
U. Nebraska, Lincoln	92	211,385	220,141	238,472	245,171	254,877	260,152	264,485	270,749	275,161	284,544	284,935	272,743
Oregon State U.	93	215,400	227,752	239,571	231,342	229,456	242,874	252,541	260,893	266,684	257,935	262,426	271,218
SUNY, Stony Brook U.	94	201,846	206,207	218,209	224,030	210,301	219,485	227,942	235,430	240,949	257,048	260,203	270,403
U. Hawaii, Manoa	95	303,085	318,316	312,311	326,402	319,818	313,046	300,864	288,294	272,971	277,704	273,320	268,692
Brown U.	96	201,116	223,455	234,906	222,945	291,917	i 286,332	i 235,373	201,253	233,689	245,883	256,871	264,138
Woods Hole Oceanographic Institution	97	181,746	198,775	204,352	198,232	220,016	216,592	212,374	194,088	204,400	229,143	227,573	262,048
Wake Forest U.	98	192,034	208,460	203,730	182,721	176,380	171,538	169,533	181,876	190,991	236,494	241,271	259,165
Mississippi State U.	99	223,032	217,793	222,320	197,359	200,251	216,817	229,939	233,024	235,581	255,674	264,367	257,912
Florida State U.	100	208,834	216,869	208,005	224,425	231,390	237,427	243,327	247,319	260,486	257,656	270,051	250,915
Georgetown U.	101	155,538	164,301	171,829	170,503	162,983	157,308	162,734	187,948	192,160	210,896	225,504	249,329
George Washington U.	102	189,113	189,427	187,652	192,152	213,334	226,132	214,984	226,005	242,029	249,198	249,745	248,501
U. California, Santa Barbara	103	217,952	217,877	222,916	225,976	225,614	213,537	219,907	225,767	223,349	230,097	241,523	232,800

TABLE 79

**Higher education R&D expenditures in science and engineering fields, ranked by FY 2021 R&D expenditures: FYs 2010–21**

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Auburn U., Auburn	104	143,874	161,785	130,222	143,545	140,110	132,970	149,411	167,352	184,650	199,851	221,503	229,394
U. Delaware	105	147,204	160,503	161,327	170,470	169,641	167,904	169,384	176,455	179,560	200,935	214,517	224,655
Wayne State U.	106	248,753	252,620	221,666	217,984	213,253	207,830	214,306	220,199	230,231	235,072	229,753	222,694
Tufts U.	107	153,113	154,760	159,140	154,694	156,411	162,510	181,011	216,895	197,478	196,559	209,283	221,029
U. Texas Health Science Center, San Antonio	108	207,115	198,655	184,298	175,983	172,716	170,277	194,885	169,200	179,219	188,483	202,572	219,734
Florida International U.	109	92,250	97,804	83,639	92,463	107,487	124,631	133,831	146,431	165,748	191,754	210,258	215,873
U. Notre Dame	110	104,288	121,466	143,328	156,234	160,461	171,148	175,187	184,061	190,469	211,694	200,815	214,388
U. Massachusetts, Amherst	111	164,850	176,545	178,207	172,217	183,210	197,183	193,863	194,030	193,495	203,885	204,998	201,187
U. Nebraska, Medical Center	112	138,219	133,036	141,619	137,485	139,126	145,009	150,694	171,491	177,245	194,455	202,406	200,974
Rice U.	113	97,288	109,197	115,235	128,621	136,419	141,935	151,855	163,312	157,352	177,126	192,213	200,803
Thomas Jefferson U.	114	103,064	104,923	100,506	89,273	118,378	119,631	122,396	142,569	148,573	170,458	171,354	200,364
Northeastern U.	115	74,998	81,230	102,911	111,134	111,779	115,664	121,574	134,827	156,546	174,485	189,802	199,031
U. Arkansas for Medical Sciences	116	119,518	122,066	129,056	133,677	131,438	132,451	125,378	128,508	139,187	153,135	174,549	194,709
George Mason U.	117	77,966	80,284	79,913	82,849	85,493	89,845	92,649	98,488	125,416	164,053	196,362	193,205
Tulane U.	118	151,686	154,530	154,196	151,314	148,784	140,118	153,298	167,338	179,813	182,444	190,724	191,868
West Virginia U.	119	146,944	159,206	161,961	159,865	156,946	160,560	164,501	175,403	176,082	178,575	180,349	190,951
Kansas State U.	120	154,888	163,494	169,863	177,525	178,304	180,082	181,933	183,513	201,866	202,244	199,739	190,199
U. Dayton	121	91,943	89,037	79,877	82,349	83,409	93,319	111,363	127,207	143,636	163,924	162,216	189,741
U. Louisville	122	162,447	166,918	165,319	160,338	163,199	154,598	164,371	168,906	168,433	166,122	184,869	187,772
U. Texas Medical Branch	123	188,399	193,555	180,888	180,198	178,014	173,506	179,541	185,106	181,831	175,372	180,595	185,759
Clemson U.	124	144,562	135,681	110,493	116,138	116,871	120,858	133,342	144,728	160,361	165,227	174,342	183,496
U. California, Riverside	125	121,541	125,902	129,609	126,916	128,506	136,493	147,268	159,305	162,054	172,146	177,921	183,414
U. Vermont	126	129,612	132,107	115,569	115,055	109,343	114,090	115,230	117,433	128,179	135,673	178,828	182,307
U. Central Florida	127	108,662	97,309	102,562	108,560	143,063	169,770	166,000	168,630	176,094	185,873	178,762	182,161
U. Houston	128	106,646	98,231	105,844	112,469	122,163	125,973	142,081	149,795	158,543	168,909	174,582	177,843
Montana State U., Bozeman	129	124,227	114,244	113,235	103,144	104,646	98,467	102,179	118,221	114,496	140,359	147,443	174,739
Wichita State U.	130	51,068	51,862	50,108	52,831	53,614	49,902	53,092	65,491	66,916	113,618	139,670	174,661
U. Alaska, Fairbanks	131	127,808	126,691	121,640	118,907	152,352	139,605	141,976	150,064	138,989	142,307	150,364	170,923
U. South Carolina, Columbia	132	218,771	196,820	186,559	178,800	181,363	181,742	183,478	180,127	145,739	136,433	187,909	168,442
U. Nevada, Reno	133	94,420	86,372	83,137	85,085	81,028	83,385	90,673	99,156	127,049	136,707	144,327	158,566
U. California, Santa Cruz	134	136,964	149,702	149,824	145,092	147,536	147,518	146,237	119,990	123,221	138,455	146,771	156,839
U. New Hampshire	135	103,801	128,348	152,276	134,535	130,951	130,700	136,006	133,592	133,378	137,626	145,844	152,800
Oklahoma State U., Stillwater	136	147,094	162,786	166,523	134,500	126,543	126,607	150,167	152,605	154,418	150,021	153,586	151,936
Texas Tech U.	137	106,220	114,648	105,147	114,506	125,126	128,554	132,766	144,898	139,500	147,317	147,162	150,907
North Dakota State U.	138	125,294	132,717	133,874	144,069	148,352	148,934	152,106	149,230	140,507	145,723	149,867	149,983
U. Louisiana, Lafayette	139	57,333	56,313	51,873	52,089	59,068	55,250	58,984	78,780	102,812	131,601	138,225	148,749

TABLE 79

## Higher education R&amp;D expenditures in science and engineering fields, ranked by FY 2021 R&amp;D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Drexel U.	140	115,458	109,729	112,390	118,754	124,464	122,366	120,789	132,507	148,107	140,907	134,792	144,102
New Jersey Institute of Technology	141	81,240	89,250	91,407	97,088	94,371	96,386	95,235	101,334	124,565	136,801	146,635	143,190
U. Arkansas, Fayetteville	142	104,336	110,310	111,502	112,296	111,703	120,679	132,648	135,925	146,029	148,960	141,283	142,272
U. Alabama, Huntsville	143	73,266	72,988	83,076	96,932	85,994	84,745	91,549	89,392	94,519	104,824	124,322	141,890
U. Maine	144	106,238	111,129	91,673	77,169	100,493	78,608	78,576	98,748	105,810	121,621	124,999	136,719
Georgia State U.	145	61,971	54,221	62,188	79,235	80,955	79,813	103,731	133,242	133,302	126,225	126,387	135,070
U. North Dakota	146	76,262	74,636	79,792	68,636	67,199	63,590	69,145	91,958	100,061	100,841	102,047	132,941
U. Rhode Island	147	84,523	101,202	97,845	94,381	84,393	86,139	90,562	95,197	98,271	107,429	102,059	120,266
Augusta U.	148	na	na	na	64,033	64,116	67,736	71,338	99,637	99,043	96,396	103,886	116,415
Cold Spring Harbor Laboratory	149	ne	89,913	84,072	78,236	76,733	84,653	88,943	97,288	115,870	126,773	115,051	114,885
U. Texas, Dallas	150	75,236	89,767	83,124	93,582	94,961	92,374	99,328	105,140	100,950	113,560	119,531	112,959
U. Montana, Missoula	151	62,814	59,617	58,735	59,809	54,808	60,282	69,994	84,109	86,096	96,246	101,504	112,294
Rensselaer Polytechnic Institute	152	83,601	84,346	92,348	92,365	104,844	102,122	93,907	96,533	94,221	99,326	114,386	110,580
SUNY, Binghamton U.	153	66,512	65,816	73,098	67,892	63,960	70,367	75,332	88,735	105,017	93,446	105,920	110,490
U. Tennessee, Health Science Center	154	81,900	81,216	77,749	71,897	67,841	65,771	71,547	73,393	79,460	96,979	99,716	109,562
New Mexico State U.	155	146,364	137,301	135,214	136,254	129,124	127,000	103,871	99,975	93,993	100,033	105,817	109,520
U. Oregon	156	83,545	87,161	87,656	78,654	77,655	65,226	68,631	72,517	83,132	82,231	88,598	108,990
Rush U.	157	73,398	79,212	80,300	81,770	80,551	79,048	73,351	74,062	89,101	96,267	94,438	107,398
U. Texas, Arlington	158	62,410	60,003	64,684	72,571	74,261	74,702	82,355	82,065	87,257	100,734	107,017	105,993
U. Mississippi	159	100,712	113,281	109,897	98,354	97,286	89,707	102,660	114,674	117,390	137,475	115,972	104,529
U. Idaho	160	85,475	94,345	95,327	93,941	92,512	95,459	99,354	105,475	105,578	107,351	109,184	102,636
SUNY, U. Albany	161	356,517	146,987	135,673	135,879	129,434	110,284	105,605	140,392	151,303	161,613	120,484	100,353
U. Alabama, Tuscaloosa	162	39,992	52,601	52,021	49,728	47,920	51,555	53,395	52,151	59,911	68,032	72,260	99,710
U. Texas, San Antonio	163	51,480	50,496	48,700	48,599	42,318	50,012	49,383	64,143	66,192	75,719	91,606	98,032
U. Wyoming	164	53,957	55,320	63,812	63,149	48,736	54,928	108,552	121,927	112,857	79,928	91,738	92,230
Brandeis U.	165	67,672	71,638	69,489	69,398	67,048	68,690	56,871	62,745	56,750	56,738	77,912	90,932
U. Massachusetts, Lowell	166	55,120	55,257	53,980	51,465	52,595	57,435	58,437	60,735	65,060	76,770	85,346	87,311
U. Texas, El Paso	167	64,134	67,576	72,033	73,005	70,475	77,515	80,981	83,892	80,824	92,205	87,437	86,892
San Diego State U.	168	95,064	91,789	75,670	69,338	77,474	76,131	74,504	70,862	69,858	74,733	78,865	86,282
U. Maryland, Baltimore County	169	81,894	83,155	65,628	62,887	64,329	67,944	69,404	69,926	70,358	76,918	79,669	81,658
Syracuse U.	170	76,808	56,598	56,192	48,195	48,034	49,384	53,864	78,329	78,642	83,679	77,690	79,680
Colorado School of Mines	171	43,403	45,816	55,925	57,778	58,498	57,425	59,576	58,175	58,288	67,310	74,763	79,464
Michigan Technological U.	172	60,183	66,812	67,977	66,192	64,791	66,135	68,863	68,681	75,194	76,853	74,731	78,507
Saint Louis U.	173	46,589	52,134	48,303	47,174	42,316	40,831	40,426	53,643	55,913	61,907	66,858	75,470
U. Nevada, Las Vegas	174	42,202	37,711	33,130	34,299	38,229	39,564	49,405	53,073	62,711	73,777	77,606	74,115
Northern Arizona U.	175	27,281	28,581	27,078	30,134	30,903	34,731	38,800	45,572	52,105	57,763	62,548	67,558

TABLE 79

**Higher education R&D expenditures in science and engineering fields, ranked by FY 2021 R&D expenditures: FYs 2010–21**

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Cleveland State U.	176	33,857	55,044	60,481	67,137	61,291	56,683	70,665	77,518	77,203	73,854	72,092	65,974
Van Andel Research Institute	177	ne	ne	ne	ne	ne	40,502	40,040	44,578	55,171	61,738	58,982	65,789
U. Southern Mississippi	178	41,480	45,207	54,151	44,912	45,127	41,432	47,195	49,769	49,785	65,249	64,496	60,447
Indiana U.-Purdue U., Indianapolis	179	290,490	314,004	308,101	325,562	316,650	51,479	52,050	51,783	54,270	58,150	63,477	58,855
Old Dominion U.	180	76,710	80,696	79,305	76,187	52,832	48,418	53,097	54,635	51,747	59,858	58,862	58,478
Naval Postgraduate School	181	96,067	95,153	124,531	89,616	91,400	74,293	54,558	52,404	52,551	60,522	58,276	58,240
William & Mary	182	51,453	48,835	46,547	48,183	49,428	52,642	54,491	54,197	54,508	55,687	55,857	58,063
U. North Texas, Denton	183	22,762	34,421	40,796	43,342	39,453	38,001	30,858	35,443	37,731	54,523	57,764	56,738
CUNY, City C.	184	45,050	56,734	56,618	54,316	52,072	51,905	61,354	53,738	53,132	51,305	44,175	55,178
Florida Atlantic U.	185	41,896	47,027	46,782	22,594	21,760	19,718	25,158	42,918	44,634	46,399	50,002	54,980
Mercer U.	186	26,862	28,998	31,352	28,876	30,162	32,771	31,653	29,366	34,098	44,037	48,955	51,895
Missouri U. of Science and Technology	187	37,259	36,325	33,797	35,400	38,509	35,144	35,531	37,958	42,657	47,521	46,813	51,669
U. Toledo	188	66,839	70,164	63,348	63,119	56,710	48,391	45,687	46,697	48,184	52,655	51,843	51,629
Howard U.	189	38,626	41,471	44,587	41,351	38,366	45,764	40,412	44,613	44,592	43,227	44,077	51,442
South Dakota State U.	190	67,269	69,646	68,554	63,751	58,199	57,433	60,582	63,328	63,287	66,462	60,600	51,153
U. North Texas, Health Science Center	191	38,862	45,943	46,865	44,904	47,002	46,335	50,567	48,476	49,503	50,124	42,766	50,698
U. California, Office of the President	192	72,542	63,420	65,627	67,447	50,103	48,233	39,051	46,399	55,676	67,702	60,686	50,462
U. Maryland Center for Environmental Science	193	42,670	50,007	48,224	53,683	50,814	49,341	52,861	54,491	53,398	55,121	53,676	50,322
U. Memphis	194	40,589	39,315	41,841	39,306	44,351	37,539	40,374	41,192	50,819	47,225	54,193	50,121
U. Wisconsin-Milwaukee	195	58,417	56,845	52,271	47,568	51,316	55,883	50,661	48,017	53,585	50,950	54,782	49,581
San Jose State U.	196	32,947	34,075	29,554	32,100	36,354	39,833	38,326	36,594	38,252	39,818	40,474	48,531
Rochester Institute of Technology	197	33,537	29,709	31,893	32,199	31,471	36,030	39,952	45,563	43,679	49,949	49,572	48,513
U. Texas Rio Grande Valley	198	na	na	na	na	na	na	27,400	28,547	25,623	42,714	47,610	48,450
U. North Carolina, Charlotte	199	28,216	24,323	22,504	21,744	20,646	21,836	23,610	24,190	34,870	42,697	45,181	47,458
Worcester Polytechnic Institute	200	17,154	20,647	18,558	23,780	26,544	33,910	34,921	31,662	31,477	37,822	41,949	47,250
Southern Illinois U., Carbondale	201	69,924	71,130	71,097	70,854	65,256	57,509	53,172	48,416	49,636	41,729	41,617	47,210
U. South Alabama	202	30,012	36,975	34,194	34,737	33,994	38,245	42,466	40,629	40,519	51,968	50,571	46,500
Boston C.	203	36,960	30,446	30,436	30,700	28,326	26,123	40,724	43,825	42,801	44,768	43,168	45,726
Air Force Institute of Technology	204	28,318	30,090	30,609	26,234	23,335	26,323	29,722	35,703	33,360	34,016	35,584	45,703
SUNY, Upstate Medical U.	205	43,824	39,988	35,897	34,286	33,460	32,453	31,892	35,551	36,674	38,091	41,557	44,870
Louisiana State U., Health Sciences Center, New Orleans	206	59,776	57,007	53,712	49,443	45,486	46,840	43,067	40,785	38,989	40,914	43,419	44,370
Ohio U.	207	44,428	43,399	42,798	44,746	58,238	57,786	55,828	57,321	49,518	45,581	42,369	44,199
U. Puerto Rico, Medical Sciences Campus	208	39,134	64,017	45,649	43,374	40,444	43,316	46,232	42,423	41,216	45,014	37,217	44,111
Boise State U.	209	18,045	23,519	26,885	24,027	25,351	29,955	30,384	32,279	37,959	35,528	38,919	43,167
Loyola U., Chicago	210	42,120	40,994	44,785	50,150	48,996	47,000	41,152	38,070	37,049	37,210	38,210	42,342
Baylor U.	211	8,452	10,277	8,184	11,877	17,877	20,721	22,237	25,052	25,289	26,291	31,313	42,087

TABLE 79

**Higher education R&D expenditures in science and engineering fields, ranked by FY 2021 R&D expenditures: FYs 2010–21**

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
East Carolina U.	212	23,370	25,727	29,468	36,425	29,169	26,248	25,251	25,551	36,066	47,612	47,123	42,053
Stevens Institute of Technology	213	32,230	39,973	29,893	26,788	28,917	33,042	34,413	34,018	31,565	35,477	42,640	41,313
Texas Tech U., Health Sciences Center	214	51,282	58,774	61,219	61,309	36,932	39,261	38,717	38,657	36,784	42,959	43,102	40,567
Texas State U.	215	19,496	19,243	24,285	26,671	25,910	29,934	30,064	28,479	29,444	35,440	39,242	40,513
U. California, Merced	216	20,730	20,307	21,826	21,730	22,612	28,278	27,185	32,448	35,753	42,611	43,421	39,867
Brigham Young U., Provo	217	27,766	29,980	26,499	30,076	30,797	31,849	35,512	36,791	34,276	33,275	33,810	39,753
Lehigh U.	218	34,897	29,639	28,949	31,003	32,860	33,693	30,375	33,752	35,849	35,414	36,427	39,118
U. Massachusetts, Boston	219	39,387	31,864	28,869	29,875	30,021	30,305	35,220	37,929	33,865	38,998	36,827	37,121
Kent State U.	220	24,616	24,388	23,353	19,962	21,785	25,917	21,951	27,413	26,703	32,867	33,929	36,040
Florida A&M U.	221	30,282	33,719	31,375	33,538	29,895	31,676	32,856	33,024	34,437	36,605	34,194	35,945
North Carolina Agricultural and Technical State U.	222	35,216	34,725	33,963	33,251	34,160	34,514	31,782	35,285	34,714	33,297	31,382	35,189
SUNY, Downstate Health Sciences U.	223	32,512	41,993	43,257	39,354	33,331	28,652	33,735	31,873	34,661	36,015	33,204	34,459
Portland State U.	224	40,203	41,692	40,939	38,785	39,134	36,355	38,717	36,595	36,526	38,726	33,654	33,096
San Francisco State U.	225	24,959	25,772	29,447	31,948	28,710	26,178	25,149	26,712	27,841	29,667	31,177	32,882
Morehouse School of Medicine	226	30,669	33,946	37,586	36,638	41,858	33,367	38,774	35,454	33,215	31,289	29,813	32,637
U.S. Air Force Academy	227	54,509	70,285	43,512	49,471	41,539	35,157	50,659	40,635	33,467	34,940	33,308	32,086
U. Missouri, Kansas City	228	24,461	27,000	23,902	23,521	26,452	24,097	23,955	22,806	22,857	30,096	34,695	31,756
CUNY, Hunter C.	229	35,751	35,645	36,085	36,741	35,702	33,483	33,508	26,496	29,752	32,773	33,951	30,854
Illinois Institute of Technology	230	34,348	40,199	32,148	36,426	30,938	33,810	29,430	32,362	32,566	34,220	29,003	29,542
American U.	231	16,809	18,212	18,404	23,794	38,038	25,350	28,170	26,551	31,906	39,531	37,505	29,508
Marquette U.	232	13,124	16,525	15,208	16,257	17,267	19,985	21,968	23,692	24,623	28,856	29,152	29,369
New Mexico Institute of Mining and Technology	233	51,696	43,857	37,875	32,442	48,260	26,222	19,238	20,404	21,260	24,523	24,267	28,487
SUNY, C. of Environmental Science and Forestry	234	26,916	25,007	23,117	21,225	19,013	22,036	24,221	27,755	26,559	28,979	29,000	28,145
U. Massachusetts, Dartmouth	235	24,312	23,708	21,556	25,559	25,879	23,875	24,363	24,336	24,536	26,554	25,326	27,986
U. Texas Health Science Center, Tyler	236	ne	ne	ne	ne	ne	12,191	11,799	16,292	17,949	19,606	21,265	27,928
Texas A&M U.-Corpus Christi	237	15,034	15,146	13,626	15,161	19,058	22,985	21,911	25,644	28,077	29,296	28,246	27,070
Catholic U. of America	238	20,871	24,933	24,275	22,795	22,009	23,817	24,360	23,337	24,269	23,402	24,099	26,557
Tennessee State U.	239	11,253	11,961	14,108	15,149	19,437	19,208	18,324	16,247	16,355	14,376	25,478	26,409
Desert Research Institute	240	34,367	35,331	33,056	27,695	23,778	22,103	29,422	29,440	27,875	26,991	26,428	26,365
Rowan U.	241	2,610	3,185	3,657	2,729	8,118	7,921	10,113	12,710	15,818	21,980	25,269	26,086
Southern Methodist U.	242	16,121	22,008	20,917	17,972	24,443	20,538	22,729	21,128	21,505	27,503	26,882	25,998
Wright State U.	243	48,396	47,795	45,901	49,760	54,456	53,881	55,241	59,263	67,615	63,779	48,974	25,852
Georgia Southern U.	244	3,164	3,505	5,185	17,287	19,584	16,456	16,465	15,221	12,150	9,634	10,049	25,292
Louisiana State U., Health Sciences Center, Shreveport	245	30,817	31,021	29,365	28,266	25,004	24,069	23,353	22,560	24,463	26,262	25,321	24,600
Teachers C., Columbia U.	246	15,149	17,459	19,829	18,538	19,457	22,359	22,868	23,189	23,261	24,234	22,170	24,303
Nova Southeastern U.	247	9,740	11,912	12,599	12,415	13,532	14,439	18,991	22,021	22,406	24,277	25,476	24,185



TABLE 79

**Higher education R&D expenditures in science and engineering fields, ranked by FY 2021 R&D expenditures: FYs 2010–21**

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Ponce Health Sciences U.	248	8,934	10,502	11,586	7,241	5,710	7,520	7,992	8,664	7,857	11,390	13,566	23,297
U. Minnesota, Duluth	249	20,237	22,301	20,863	20,818	21,122	26,958	26,949	24,452	24,693	26,859	25,634	23,276
Miami U.	250	14,561	14,795	21,151	17,875	i 16,035	14,904	14,111	15,482	17,120	19,280	21,808	23,045
U. South Dakota	251	27,511	25,321	27,060	30,364	27,367	21,671	22,543	24,830	27,168	28,456	24,766	22,891
California Polytechnic State U., San Luis Obispo	252	19,148	15,489	15,939	15,098	14,648	15,666	17,559	17,304	15,860	24,954	23,679	22,541
Albany Medical C.	253	22,953	20,876	17,735	15,093	16,093	18,043	20,166	20,443	21,187	23,028	23,510	22,443
Florida Institute of Technology	254	11,427	9,749	9,187	9,195	10,564	i 11,201	15,196	18,040	16,343	16,847	17,276	22,238
Creighton U.	255	25,432	i 28,907	29,911	i 27,709	i 24,073	i 22,228	i 21,843	i 22,310	i 18,896	i 22,278	i 18,899	i 21,647
Marshall U.	256	24,398	26,268	18,998	19,607	20,154	19,835	18,777	16,423	18,043	17,823	19,020	21,555
U. Denver	257	12,348	13,018	11,575	12,716	11,216	10,614	16,858	18,327	21,618	21,642	22,612	21,373
Tuskegee U.	258	14,258	14,321	13,188	17,094	24,066	i 20,704	i 16,508	i 16,508	i 13,402	20,562	20,973	21,355
Texas A&M U.-Kingsville	259	14,213	14,572	14,824	15,308	18,371	18,170	18,849	19,360	18,443	19,537	20,568	21,280
U. Nebraska, central administration	260	ne	ne	ne	ne	ne	ne	ne	ne	12,713	17,697	22,814	20,931
Louisiana Tech U.	261	20,752	21,641	20,265	18,983	17,088	17,744	16,639	17,079	18,089	19,760	20,371	20,780
U. Alaska, Anchorage	262	11,328	12,380	13,004	13,022	15,112	15,396	18,382	18,646	19,254	20,655	22,123	20,590
Central Michigan U.	263	3,229	5,865	8,190	9,996	11,506	9,725	10,304	11,521	13,406	15,607	16,050	20,390
Rutgers, State U. New Jersey, Newark	264	25,953	31,714	31,287	29,110	23,235	19,913	18,412	21,586	23,190	21,291	23,118	20,252
California State U., Sacramento	265	11,673	13,822	12,056	12,444	11,783	16,585	17,705	17,647	18,017	20,279	21,425	20,072
U. Puerto Rico, Rio Piedras	266	27,780	30,139	31,877	26,755	26,656	26,544	22,610	17,600	13,889	18,019	17,888	19,797
Oakland U.	267	11,796	14,725	15,439	14,033	12,515	15,015	14,083	12,757	11,961	17,226	12,851	19,663
Eastern Virginia Medical School	268	44,420	36,569	37,745	44,183	43,917	42,296	32,550	28,671	30,010	27,064	20,870	19,415
Northern Illinois U.	269	23,353	17,672	18,147	18,866	15,165	i 13,660	16,515	12,565	18,965	18,337	16,675	19,357
Villanova U.	270	9,191	i 9,281	i 7,831	i 6,931	i 11,645	12,208	12,934	15,189	16,376	18,225	20,414	19,197
Delaware State U.	271	14,723	17,993	15,416	17,260	17,654	15,964	20,384	19,136	18,916	22,512	19,627	i 19,194
Embry-Riddle Aeronautical U.	272	12,189	10,705	14,225	11,575	14,741	11,528	16,409	13,133	16,601	12,307	17,436	19,054
U.S. Military Academy	273	19,763	i 12,314	11,702	11,612	13,247	13,135	12,281	7,247	6,313	6,432	11,872	19,040
U. North Carolina, Greensboro	274	12,818	16,230	12,590	12,629	15,735	16,673	16,129	14,416	14,374	16,500	15,364	18,992
Morgan State U.	275	12,768	12,544	17,470	14,942	15,337	13,406	15,353	14,527	12,727	12,791	16,919	18,888
New York Medical C.	276	28,400	27,316	23,277	20,243	17,908	17,653	17,311	15,637	i 8,141	i 19,398	i 20,137	18,872
Western Michigan U. and Homer Stryker M.D. School of Medicine	277	14,432	15,875	13,546	12,821	13,500	13,375	11,974	17,687	15,913	15,160	15,350	17,672
U. Nebraska, Omaha	278	6,783	7,903	7,536	7,966	7,640	6,688	9,093	10,637	10,987	11,775	12,878	17,554
East Tennessee State U.	279	9,185	9,496	10,657	8,506	6,954	6,173	7,680	9,146	13,694	i 13,903	i 13,618	i 17,396
U. Guam	280	5,555	5,477	5,975	5,873	6,790	5,919	7,351	8,803	11,053	12,001	12,674	17,212
U. Akron	281	47,558	52,881	59,765	62,331	64,270	54,089	57,351	39,566	31,789	29,090	22,595	16,747
Chapman U.	282	2,135	2,098	2,396	2,734	3,189	3,074	5,023	8,568	9,895	12,498	13,951	16,594

TABLE 79

## Higher education R&amp;D expenditures in science and engineering fields, ranked by FY 2021 R&amp;D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
U. Puerto Rico, Mayaguez	283	25,536	33,509	31,143	28,041	25,920	26,986	24,908	25,328	23,764	26,092	25,896	16,322
Meharry Medical C.	284	27,001	29,055	25,559	22,532	18,997	13,998	14,768	16,782	16,980	18,286	13,870	15,840
South Dakota School of Mines and Technology	285	28,572	32,010	18,991	12,156	10,472	14,970	15,396	15,541	15,092	12,973	14,490	15,746
U. Tulsa	286	22,690	18,703	19,895	21,186	26,460	24,135	21,347	20,567	19,797	18,180	18,487	15,688
Clarkson U.	287	18,289	17,772	14,787	12,009	13,642	13,194	12,799	14,180	15,780	16,211	14,095	15,512
CUNY, Advanced Science Research Center	288	na	na	na	na	na	569	ne	3,293	5,462	8,300	11,226	15,400
U. of the Virgin Islands	289	31,272	21,373	24,543	18,374	14,732	19,456	21,215	12,031	11,853	11,668	13,622	15,231
California State U., Northridge	290	16,747	9,795	15,619	9,466	12,628	12,053	12,471	15,336	17,036	18,758	19,405	15,220
U. North Carolina, Wilmington	291	20,618	19,961	17,015	15,490	12,212	13,166	13,597	14,000	15,058	16,039	15,005	15,051
CUNY, Graduate School of Public Health and Health Policy	292	na	na	na	na	na	na	na	na	8,636	9,521	12,177	15,035
CUNY, Queens C.	293	16,233	22,831	22,067	18,601	22,053	18,332	18,538	15,522	15,969	17,643	15,606	14,946
Montana Technological U.	294	7,424	6,705	11,765	11,059	11,348	11,595	11,851	13,059	12,666	12,731	12,987	14,933
Prairie View A&M U.	295	12,557	15,226	14,523	13,174	12,248	12,932	12,511	13,455	14,766	15,538	16,103	14,867
Jackson State U.	296	38,114	39,867	38,027	32,119	24,132	22,163	22,408	21,272	18,972	18,057	14,979	14,822
Tarleton State U.	297	9,931	9,720	8,646	7,854	9,961	8,956	8,880	10,250	11,960	11,566	12,253	14,688
Tennessee Technological U.	298	16,152	11,809	9,138	8,705	9,410	9,804	9,776	11,467	12,227	13,107	13,613	14,616
Middle Tennessee State U.	299	3,370	2,825	5,491	3,384	1,522	1,965	3,971	4,092	3,735	4,474	4,780	14,240
California State U., Long Beach	300	14,762	14,006	13,250	12,494	9,746	8,108	14,175	16,993	18,408	17,459	15,900	14,210
Alcorn State U.	301	10,280	11,397	11,515	11,315	10,060	9,396	8,204	16,129	13,834	14,435	13,710	14,188
Kennesaw State U.	302	1,401	1,374	1,738	2,100	1,881	1,316	6,279	7,728	8,006	10,320	14,555	14,161
Northeast Ohio Medical U.	303	10,819	13,581	13,358	12,722	15,916	17,103	18,823	19,216	18,218	18,007	15,756	13,853
Rosalind Franklin U. of Medicine and Science	304	12,426	14,261	15,587	17,401	17,794	16,604	16,760	17,006	16,765	16,126	14,601	13,805
Loma Linda U.	305	32,915	37,169	29,762	29,799	23,120	25,417	22,956	21,846	19,537	17,621	15,705	13,788
Idaho State U.	306	19,234	21,047	20,764	21,476	19,962	17,540	20,305	18,398	17,659	14,560	14,232	13,746
Humboldt State U.	307	7,505	9,520	9,464	7,999	8,242	11,173	16,084	15,914	14,983	14,891	13,899	13,649
Southern Illinois U., Edwardsville	308	30,958	33,318	25,608	24,594	17,215	18,248	17,243	15,559	16,914	15,513	14,260	13,603
U. New Orleans	309	25,932	23,290	22,275	19,790	17,182	16,980	14,551	13,436	12,148	12,713	13,686	13,398
Charles R. Drew U. of Medicine and Science	310	22,152	22,150	20,580	18,250	20,686	14,128	13,360	15,652	11,490	13,739	13,682	13,228
Texas Christian U.	311	3,815	3,841	5,105	5,342	5,132	5,095	4,053	4,330	3,279	4,291	13,590	13,075
U. Colorado Denver <sup>c</sup>	312	na	na	na	na	na	na	na	na	na	na	na	13,067
U. Hawaii, system office	313	ne	ne	ne	ne	ne	ne	ne	ne	12,340	12,159	13,568	12,918
Xavier U. Louisiana	314	8,022	9,836	10,606	8,789	9,335	9,588	12,060	12,372	11,586	9,999	11,335	12,660
Bowling Green State U.	315	8,030	8,834	8,426	12,808	8,630	6,263	10,999	9,374	9,570	10,112	11,699	12,417
North Carolina Central U.	316	6,870	9,043	10,573	8,190	10,158	10,971	10,539	11,689	11,299	13,352	13,699	11,840
U. Missouri, Saint Louis	317	10,050	12,344	12,840	13,156	14,632	9,991	10,876	10,411	10,708	12,865	12,676	11,484

TABLE 79

**Higher education R&D expenditures in science and engineering fields, ranked by FY 2021 R&D expenditures: FYs 2010–21**

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Montclair State U.	318	1,368	3,373	4,470	4,005	3,342	3,433	4,250	4,006	4,965	7,960	10,604	11,470
California State U., East Bay	319	1,312	1,644	1,039	934	ne	ne	837	ne	ne	ne	5,515	11,291
Hampton U.	320	14,455	12,292	15,290	12,620	11,153	14,767	13,572	15,908	13,669	12,943	10,842	11,181
U. West Florida	321	4,079	3,551	2,559	4,004	5,080	5,180	12,310	12,461	15,710	12,173	11,122	11,069
Western Washington U.	322	6,630	7,738	6,501	6,577	6,768	7,619	7,997	9,294	10,912	9,896	10,315	11,045
Midwestern U.	323	3,596	4,022	5,200	6,292	7,310	8,560	7,732	9,207	10,173	10,343	10,479	10,961
U.S. Naval Academy	324	11,093	10,543	9,156	10,476	10,661	9,609	11,364	13,524	14,057	13,481	12,827	10,747
Long Island U.	325	630	672	671	676	ne	ne	611	1,602	1,731	4,858	10,148	10,652
Texas Tech U., Health Sciences Center, El Paso	326	ne	ne	ne	ne	22,634	18,186	16,674	15,526	12,145	11,649	10,294	10,555
New School	327	3,167	3,277	3,695	5,919	3,843	5,254	15,747	11,123	8,112	9,179	9,255	10,162
Missouri State U.	328	7,737	5,576	4,340	3,879	3,677	3,516	3,027	3,104	4,391	5,669	13,020	9,994
U. Tennessee, Chattanooga	329	8,786	7,308	8,865	5,928	4,627	5,318	3,962	4,814	5,834	7,337	9,060	9,380
California State U., San Marcos	330	5,049	5,044	5,040	5,034	4,470	4,637	5,212	4,962	7,185	9,446	11,918	9,220
West Texas A&M U.	331	5,741	4,307	4,346	4,122	3,663	3,924	3,776	4,690	4,441	5,021	5,488	9,014
California State U., Los Angeles	332	7,178	8,682	6,876	7,192	4,881	4,461	4,860	8,031	9,487	12,083	10,188	8,892
Virginia State U.	333	6,907	8,094	10,060	9,213	8,175	7,657	7,948	8,053	8,674	9,223	7,826	8,784
Kentucky State U.	334	4,887	4,559	6,843	5,580	5,694	6,017	7,060	8,151	9,125	8,432	7,963	8,756
Central State U.	335	3,060	3,694	3,490	2,769	2,025	1,508	1,643	2,008	3,615	3,766	6,107	8,751
U. Arkansas, Pine Bluff	336	8,343	9,415	9,073	8,909	8,198	8,425	8,873	8,136	8,314	9,005	8,527	8,713
Clark Atlanta U.	337	8,515	8,205	10,405	9,156	9,172	9,929	8,482	7,948	7,810	8,508	8,259	8,712
James Madison U.	338	6,858	7,075	8,428	5,539	4,516	3,700	3,283	3,108	3,859	4,968	6,169	8,687
U. Maryland, Eastern Shore	339	8,692	8,664	7,265	8,786	8,982	9,631	8,175	7,403	4,941	7,128	8,092	8,636
Alabama A&M U.	340	30,297	28,813	28,573	28,335	28,095	27,855	23,784	19,887	15,989	12,089	8,237	8,533
Arkansas State U., Jonesboro	341	11,043	13,339	14,064	10,320	7,956	8,391	8,158	7,936	8,238	8,906	8,637	8,379
California State U., Fresno	342	8,117	8,296	8,283	7,117	7,303	7,248	7,431	7,228	8,414	8,241	8,347	8,284
California State U., San Bernardino	343	2,630	7,266	7,472	10,872	12,572	14,342	9,725	10,319	11,535	12,419	7,415	7,999
Texas Southern U.	344	4,744	4,255	4,424	5,518	2,855	3,089	3,764	4,702	2,637	4,893	8,600	7,880
Oklahoma State U., Center for Health Sciences	345	4,398	2,815	2,122	2,137	1,805	1,625	1,924	2,374	2,497	5,339	8,342	7,752
Clark U.	346	5,237	6,032	7,041	5,481	5,644	6,357	6,404	7,408	7,650	9,426	9,795	7,750
Illinois State U.	347	5,622	5,492	4,852	5,155	5,212	5,042	5,586	4,658	5,157	6,584	7,128	7,664
Lincoln U., Jefferson City	348	8,475	8,518	7,899	6,585	6,742	6,296	5,826	5,164	4,215	4,581	5,777	7,621
Duquesne U.	349	12,078	13,603	12,858	12,385	13,019	13,767	14,211	14,396	14,121	13,176	13,851	7,589
U. Hawaii, Hilo	350	11,567	5,927	14,841	11,607	9,242	14,431	11,216	6,976	7,048	6,818	6,957	7,379
U. Michigan, Dearborn	351	6,377	7,025	5,720	6,419	7,744	7,179	7,050	7,664	7,411	8,092	8,141	7,174
U. of the District of Columbia	352	5,012	3,700	4,011	3,073	2,361	2,043	3,469	3,733	2,960	4,043	3,942	7,054
U. Arkansas, Little Rock	353	9,754	11,320	10,245	11,994	7,055	6,276	6,971	6,050	7,079	9,134	8,883	6,896

TABLE 79

**Higher education R&D expenditures in science and engineering fields, ranked by FY 2021 R&D expenditures: FYs 2010–21**

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021						
Winston-Salem State U.	354	ne	743	1,280	436	ne	ne	1,069	1,175	1,289	1,468	4,378	6,890						
California State Polytechnic U., Pomona	355	4,040	4,737	4,599	6,702	i	5,349	4,513	5,254	5,732	7,538	5,323	7,151	6,878					
California State U., Monterey Bay	356	5,305	6,959	6,567	6,129		4,780	5,459	5,679	5,384	5,702	6,192	5,763	6,844					
Edward Via C. of Osteopathic Medicine	357	ne	2,453	2,576	4,992		2,633	2,237	5,692	8,119	7,601	7,225	7,475	6,629					
West Virginia State U.	358	3,770	4,176	5,087	4,467		6,689	7,364	5,224	6,305	6,535	5,763	5,775	6,438					
Sam Houston State U.	359	6,045	2,637	3,643	3,225		3,235	2,804	3,170	3,408	5,622	6,180	5,758	6,422					
California State U., Fullerton	360	11,147	14,330	11,094	10,230		7,104	5,318	5,029	4,890	5,724	6,017	5,457	6,363					
Grand Valley State U.	361	4,968	6,296	i	7,624	i	8,954	7,934	7,213	6,595	6,268	6,729	6,204	6,354	6,315				
Ball State U.	362	4,780	9,159		4,701		3,616	4,364	4,810	5,689	5,215	6,412	7,025	6,771	6,262				
U. New England	363	3,560	4,016		5,217		6,637	7,456	7,360	7,289	7,817	6,668	7,346	6,881	6,229				
Philadelphia C. of Osteopathic Medicine	364	1,278	2,401		1,898		2,614	2,209	2,561	2,458	2,969	3,059	3,162	3,360	6,186				
Southern U. and A&M C., Agricultural Research and Extension Center	365	ne	6,143		8,122		5,530	5,606	4,761	4,704	i	5,296	5,448	4,475	6,164				
Gallaudet U.	366	4,975	4,404		4,305		4,468	3,457	3,543	4,014	7,060	7,046	3,255	2,904	6,116				
Western Kentucky U.	367	9,527	8,003		10,259		8,744	7,398	6,936	7,480	9,062	8,003	7,872	7,022	6,092				
Langston U.	368	4,492	5,206		5,326		4,932	8,512	8,126	10,941	10,592	i	10,459	i	10,326	13,954	6,090		
Roseman U. of Health Sciences	369	ne	840		ne		ne	3,021	3,287	3,433	4,167		3,973		4,176	i	4,380	5,893	
CUNY, Brooklyn C.	370	6,266	8,706		8,485		7,631	8,232	8,553	9,205	6,748		6,054		6,299	i	6,518	5,768	
Western U. of Health Sciences	371	1,283	900		2,773		2,218	2,384	2,219	3,717	5,740		4,063		3,936		4,866	5,598	
Wesleyan U.	372	7,599	9,356		8,162		7,280	6,017	6,330	6,760	7,589		8,529		7,714		5,971	5,596	
Fordham U.	373	5,212	4,494		5,624		6,704	7,086	6,352	9,477	8,429		7,336		6,623		5,472	5,479	
Loyola Marymount U.	374	1,364	3,938		2,369		2,285	3,610	3,286	4,168	4,075		4,120		4,322		4,489	5,436	
U. North Florida	375	6,316	8,773		6,620		4,126	2,657	3,160	4,366	5,059		5,666		5,439		5,490	5,358	
U. Southern Maine	376	3,125	7,236		13,682		11,527	6,723	i	5,095	i	3,465	6,550		6,696		6,058	5,180	5,341
U. of Health Sciences and Pharmacy in St. Louis	377	ne	ne		ne		ne	ne	ne	ne	ne		ne		ne		4,835	5,313	
DePaul U.	378	4,302	5,256		5,344		4,828	5,681	8,506	8,590	7,590		6,325		5,241		5,754	5,293	
C. Charleston	379	11,422	6,446		7,217		8,078	7,121	7,327	6,955	6,740		5,450		5,206		4,142	5,109	
Pennsylvania State U., Behrend	380	2,500	2,724		3,169		3,041	4,156	3,614	5,104	3,598		2,617		3,268		1,713	5,102	
Florida Gulf Coast U.	381	3,841	3,611		3,190		2,943	2,150	1,967	2,112	1,888		1,742		1,470		3,454	5,057	
Toyota Technological Institute, Chicago	382	ne	746		ne		ne	2,543	2,710	2,880	3,251		3,681		5,887		5,887	4,967	
Salisbury U.	383	844	880		2,689		2,587	3,677	4,180	4,523	3,679		4,867		4,870		4,432	4,956	
Eastern Michigan U.	384	5,388	5,044		5,428		2,655	1,244	1,509	2,642	3,467		3,637		4,706		6,584	4,842	
Fort Valley State U.	384	4,586	3,850		3,665		3,688	4,547	4,320	5,138	5,374		3,916		4,562		4,921	4,842	
Bryn Mawr C.	386	4,482	4,807		6,247		5,429	5,329	6,369	6,136	6,270		5,708		4,971		5,508	4,803	
St. Edward's U.	387	ne	3,299		2,480		2,640	1,745	4,200	3,720	7,161		2,813		5,813		5,377	4,789	
Wellesley C.	388	5,271	4,130		5,253		6,156	6,537	5,653	6,896	5,489		4,896		5,076		4,957	4,701	

TABLE 79

**Higher education R&D expenditures in science and engineering fields, ranked by FY 2021 R&D expenditures: FYs 2010–21**

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021			
U.S. Army War C.	389	ne	ne	ne	ne	ne	ne	ne	ne	ne	2,146	i	ne	4,662	i	
California State U., Bakersfield	390	2,083	3,130	1,115	2,380	2,254	2,857	2,725	3,751	4,633	6,612		5,902	4,608		
Des Moines U.	391	855	924	ne	ne	929	ne	1,206	1,355	1,351	1,643		4,395	4,604	i	
U. Colorado Colorado Springs	392	8,805	6,935	3,996	3,688	4,312	5,962	5,679	5,611	4,730	3,440		4,385	4,495		
U. of St. Thomas (MN)	393	1,003	1,037	751	1,019	647	ne	909	929	1,344	1,395		2,047	4,471		
Hope C.	394	3,552	3,605	3,320	3,367	2,719	2,932	2,811	3,213	3,011	2,694		3,157	4,429		
U. Detroit Mercy	395	1,084	1,127	933	ne	1,305	1,872	3,649	2,737	4,577	5,170		4,756	4,422		
Abilene Christian U.	396	625	486	ne	ne	ne	ne	ne	ne	ne	ne		ne	4,412		
U. Wisconsin-Stevens Point	397	6,674	6,063	i	5,452	4,300	3,876	i	3,404	i	2,933	i	3,377	i	3,822	i
New York Institute of Technology	398	1,785	1,934		2,056	3,214	4,916		3,507		3,846		3,094		3,663	
Oregon Institute of Technology	399	ne	258	ne	ne	ne	788		4,027		3,537	i	3,145	i	3,357	i
Norfolk State U.	400	5,944	6,930	8,336	6,179	6,780	5,122		7,196		7,237		6,877		7,935	
Purdue U., Northwest	401	na	na	na	na	na	na		na		4,920		4,695		3,111	
Amherst C.	402	2,622	3,230	3,618	i	4,007	3,171		3,401		3,072		3,105		3,546	
Claremont McKenna C.	403	4,788	4,425	5,365	i	5,414	i	5,463	i	ne	6,054		5,818		5,299	
Fisk U.	404	7,686	4,631	4,058		5,429	i	7,366		7,247	i		7,681		4,333	
Bucknell U.	405	5,169	4,618	3,623		3,867		4,143		3,790		4,005	i	4,321	i	4,639
Barnard C.	406	3,240	3,916	3,611		2,893		2,403		2,562		3,103		3,108		2,938
Morehouse C.	407	7,704	8,280	i	8,856	9,169		6,973		5,836		4,199		3,663		4,365
Yeshiva U.	408	314,240	281,334		289,027	271,166		306,826		306,174		46,130		3,258		3,302
U. New Haven	409	ne	595	456	728	511	i	518		2,535		985		5,577		5,045
U. of the Sciences Philadelphia	410	1,945	2,314	2,341		2,087		2,586		3,366		3,187		3,954		3,671
William Paterson U.	411	574	753	ne	ne	ne		ne		803		1,592		3,691		4,424
Southern U. and A&M C., Baton Rouge	412	6,865	6,819	i	6,773	4,727		3,153		4,054		3,267		3,554		3,532
Rutgers, State U. New Jersey, Camden	413	2,573	2,792		2,278	4,923		4,691		4,440		4,192		2,912		2,050
U. Washington, Tacoma	414	106	142	261	23	1		1,812		1,784		971		2,105		3,052
Texas Woman's U.	415	2,155	2,576	3,196		2,067		1,970		1,812		2,635		3,130		3,265
U. Central del Caribe	416	7,122	7,515	7,313		7,095		7,181		6,964		7,090		5,634		4,111
U. North Carolina, general administration	417	ne	ne	ne	ne	ne		ne		4,197		4,137		3,721		4,779
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	418	ne	2,342	2,562		2,979		3,356		3,089		3,177		3,285		3,502
U. San Diego	419	2,567	2,340	2,485		2,552		2,873		2,332		2,566		3,543		3,491
Pacific U.	420	1,567	927	481		2,387		1,094	i	978		1,509		5,299		4,156
Murray State U.	421	3,384	3,713	3,341		2,179		2,053		2,341		2,092		2,438		2,860
Albany C. of Pharmacy and Health Sciences	422	3,074	3,496	2,639		2,637		3,200		2,520		1,789		2,561		2,730
Reed C.	423	1,904	1,839	1,837		2,395		3,091		3,050		3,213		1,415		2,607

TABLE 79

## Higher education R&amp;D expenditures in science and engineering fields, ranked by FY 2021 R&amp;D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Appalachian State U.	424	2,550	3,498	4,196	2,877	3,977	3,507	2,868	4,318	3,387	3,060	4,141	3,650
California State U., Chico	425	2,710	2,288	2,430	2,833	2,284	1,676	2,152	1,474	2,298	2,562	3,671	3,634
Smith C.	426	4,215	4,156	3,777	3,688	4,047	5,006	4,124	5,211	5,360	5,330	4,047	3,633
Williams C.	427	4,691	4,165	4,080	3,127	3,213	4,461	4,506	4,393	4,372	3,735	3,549	3,560
Occidental C.	428	2,154	1,803	1,592	1,634	2,177	1,426	1,907	1,764	1,432	2,458	2,657	3,523
Touro U.	429	999	1,196	1,993	1,772	3,067	3,106	3,466	3,122	3,233	3,543	3,539	3,475
SUNY, C. of Optometry	430	3,529	3,738	3,466	3,637	3,481	3,906	4,169	3,304	3,120	2,968	3,477	3,460
U. Oklahoma, Tulsa	431	ne	ne	ne	ne	ne	2,554	3,107	2,667	3,868	4,003	4,591	3,432
Haverford C.	432	3,603	2,765	2,588	2,370	2,546	2,266	1,750	1,945	2,630	3,324	4,473	3,424
Western Illinois U.	433	1,210	1,524	4,514	1,983	1,349	778	ne	1,904	2,414	2,307	2,297	3,394
CUNY, Graduate Center	434	6,799	4,964	6,861	8,835	5,719	4,144	4,979	5,727	4,145	4,163	3,613	3,352
Towson U.	435	3,002	3,570	2,529	2,795	2,265	2,200	1,945	2,593	3,033	3,245	3,259	3,290
Claremont Graduate U.	436	5,068	1,100	6,200	7,030	5,907	5,252	4,598	3,944	3,290	2,634	4,365	3,281
Northern Kentucky U.	437	2,188	2,214	1,970	1,641	1,867	1,715	1,650	1,517	1,429	2,025	2,411	3,266
Dakota State U.	438	ne	1,015	5,709	1,574	1,446	1,152	2,026	2,276	3,610	3,706	4,412	3,255
Indiana U. Pennsylvania	439	767	967	958	337	414	ne	628	1,798	2,474	3,637	3,668	3,249
South Carolina State U.	440	7,166	8,157	9,149	6,674	7,838	9,002	12,077	13,254	14,021	3,010	3,123	3,236
Milwaukee School of Engineering	441	3,944	4,347	4,599	4,351	4,410	4,524	3,930	3,374	3,232	4,026	3,190	3,193
U. Northern Iowa	442	2,077	3,451	3,302	3,395	3,510	3,281	3,559	3,248	2,946	3,601	2,870	3,180
Lamar U.	443	5,316	4,685	3,570	2,564	2,439	2,218	1,824	3,359	3,316	3,196	2,339	3,154
U. North Carolina, Asheville	444	2,322	2,603	2,575	2,189	1,597	2,046	2,794	2,418	2,641	2,226	2,932	3,149
Hofstra U.	445	1,151	1,095	1,546	955	1,354	2,039	1,916	1,455	1,347	1,253	977	3,107
Carleton C.	446	2,916	3,081	3,529	4,768	4,426	2,718	1,451	1,794	1,918	3,946	2,758	2,984
CUNY, Lehman C.	447	2,932	3,168	2,982	2,242	2,543	2,613	3,847	4,114	4,657	2,594	3,429	2,968
Middlebury C.	448	2,284	2,358	3,015	2,083	1,371	1,574	1,822	2,043	1,822	1,657	1,720	2,927
U. Baltimore	449	3,606	4,452	3,894	3,865	3,951	4,091	5,188	4,972	3,794	3,474	3,456	2,915
Sonoma State U.	450	858	787	ne	1,938	1,714	1,146	572	ne	ne	ne	1,459	2,878
Southern Connecticut State U.	451	0	899	1,034	632	2,472	2,058	1,406	1,481	1,684	2,756	3,526	2,867
U. Nebraska, Kearney	451	1,441	2,137	948	1,234	1,275	1,216	1,588	3,011	2,091	2,636	2,524	2,867
U. Massachusetts, central office	453	ne	ne	485	131	339	517	1,690	2,894	3,308	3,437	4,272	2,855
U. Wisconsin-La Crosse	454	3,852	3,366	2,879	2,815	3,121	2,948	2,795	2,840	3,178	2,355	2,570	2,847
Colgate U.	455	2,559	2,109	3,004	2,340	2,226	2,244	2,631	2,728	3,142	3,128	2,163	2,807
Santa Clara U.	456	3,812	2,327	3,082	2,201	2,772	1,654	2,038	2,026	2,182	2,220	2,569	2,790
Pittsburg State U.	457	1,759	1,687	1,479	1,536	2,458	2,205	2,162	2,255	2,253	2,513	2,173	2,730
CUNY, C. Staten Island	458	3,137	2,162	3,151	2,477	2,089	1,907	2,780	2,988	3,644	3,517	3,534	2,726
St. John's U., New York	459	1,509	1,697	1,971	2,376	2,392	2,225	1,832	2,200	2,635	2,309	2,930	2,696

TABLE 79

## Higher education R&amp;D expenditures in science and engineering fields, ranked by FY 2021 R&amp;D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Alfred U.	460	4,181	5,946	5,377	6,014	4,156	5,064	3,735	3,197	3,628	5,153	2,780	2,660
Pennsylvania State U., Harrisburg	461	2,728	3,446	2,774	1,906	2,482	3,379	2,546	1,638	2,087	2,497	1,798	2,652
Alabama State U.	462	13,340	12,340	13,607	1,927	2,236	2,303	2,372	2,253	2,434	2,577	2,582	2,631
California State U., Maritime Academy	463	ne	3,005	i 2,342	2,180	1,011	1,522	2,205	1,916	3,039	2,959	3,202	2,603
Trinity U.	464	1,387	1,355	1,611	2,815	2,499	2,225	2,096	2,712	2,637	3,185	2,834	2,598
U. Wisconsin-Superior	464	5,890	6,187	i 6,041	i ne	3,022	i ne	ne	ne	3,060	2,250	2,295	2,598
National Defense U.	466	ne	ne	ne	4,906	6,712	4,832	5,720	5,723	2,219	2,155	2,583	2,586
Bates C.	467	1,545	1,814	2,031	2,444	1,531	2,725	1,730	1,750	1,508	2,074	2,237	2,577
Stephen F. Austin State U.	468	7,536	4,664	3,370	2,877	3,207	3,920	2,968	2,801	2,599	3,241	2,456	2,520
MGH Institute of Health Professions	469	ne	587	ne	ne	ne	3,931	2,228	1,839	2,957	3,494	3,014	2,500
Azusa Pacific U.	470	ne	3,414	i 1,930	i ne	ne	3,953	4,996	4,330	4,207	2,731	3,609	2,466
Western Carolina U.	471	2,353	1,419	1,768	1,011	1,048	1,145	1,305	1,431	1,430	2,518	2,352	2,441
Framingham State U.	472	ne	ne	ne	ne	ne	ne	ne	1,875	131	ne	2,317	2,401
Central Washington U.	473	5,132	2,854	2,752	2,087	1,998	2,182	2,751	3,755	3,050	3,205	2,620	2,400
Swarthmore C.	474	2,381	2,364	2,684	2,744	2,657	2,215	2,310	2,643	2,690	2,795	2,540	2,396
Saginaw Valley State U.	475	585	925	748	576	ne	838	804	978	1,584	2,750	2,301	2,386
West Chester U. Pennsylvania	476	4,634	i 7,785	1,914	969	1,294	2,294	3,138	3,302	3,247	3,787	2,862	2,377
Christopher Newport U.	477	1,096	1,669	1,327	1,173	1,469	1,002	1,036	1,137	1,437	1,961	2,244	2,373
Pace U.	478	2,413	2,709	3,306	2,914	3,570	3,436	2,946	2,847	2,148	2,384	3,077	2,346
Texas A&M International U.	479	1,596	1,336	1,225	1,349	1,450	925	1,617	2,974	3,729	4,034	1,713	2,336
Harvey Mudd C.	480	3,214	3,830	3,507	3,531	3,088	3,204	4,302	3,706	3,717	3,292	2,850	2,328
U. Northern Colorado	481	2,029	1,801	2,012	2,174	3,252	2,670	2,866	3,220	3,722	3,157	2,362	2,309
CUNY, Baruch C.	482	1,860	1,342	2,143	967	900	1,379	2,315	1,843	1,736	1,987	2,243	2,297
Youngstown State U.	483	4,518	4,625	3,533	3,713	3,410	3,331	2,333	4,416	4,435	4,368	3,996	2,290
Northwest Indian C.	484	2,271	i 2,557	i 2,590	2,760	2,503	i 1,575	i ne	ne	1,649	2,201	2,181	i 2,289
U. Illinois, Springfield	485	1,808	1,536	2,155	2,205	1,852	2,040	1,293	2,246	2,104	1,727	2,859	2,286
Davidson C.	486	1,432	1,808	1,291	2,213	1,629	2,305	1,463	1,583	1,338	1,549	1,842	2,279
Fayetteville State U.	487	2,188	2,378	1,771	2,050	2,499	2,092	3,040	2,502	2,501	2,224	1,985	2,272
Skidmore C.	488	2,632	1,941	1,758	1,733	1,646	1,620	1,208	1,741	2,451	2,924	2,316	2,269
U. Texas of the Permian Basin	489	1,274	1,024	969	716	1,216	1,132	1,080	597	300	ne	939	2,268
California State U., Channel Islands	490	ne	363	ne	1,101	3,324	1,640	1,282	1,002	1,170	1,517	1,399	2,262
U. Washington, Bothell	491	471	497	553	13	742	2,168	744	1,114	1,361	2,356	1,260	2,246
Palmer C. of Chiropractic, Davenport	492	4,693	4,861	4,507	3,774	2,736	i 1,698	1,510	1,189	1,600	1,650	1,900	2,233
Franklin and Marshall C.	493	3,444	3,140	2,543	2,855	2,123	3,045	2,447	2,876	2,911	3,092	1,919	2,199
Colorado State U., Pueblo	494	413	364	ne	ne	ne	ne	ne	ne	ne	2,008	1,937	2,159
Sul Ross State U.	495	2,970	3,101	2,296	2,159	2,528	2,187	1,908	2,498	2,934	2,352	2,068	2,143

TABLE 79

**Higher education R&D expenditures in science and engineering fields, ranked by FY 2021 R&D expenditures: FYs 2010–21**

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
U. Louisiana, Monroe	496	2,869	2,801	2,439	2,753	2,267	1,640	2,430	2,297	2,123	2,359	2,349	2,135
Grinnell C.	497	1,797	1,072	2,001	2,603	2,336	2,091	2,055	3,174	3,798	3,655	2,921	2,129
Keck Graduate Institute	498	ne	2,313	1,920	2,357	2,132	1,708	1,799	i 1,859	i 1,850	i 1,969	i 2,023	i 2,121
U. Richmond	499	3,243	3,051	3,302	2,602	2,921	2,484	2,559	2,532	2,301	2,311	2,073	2,117
U. Texas, Tyler	500	2,566	2,394	3,705	2,343	2,573	2,349	1,120	1,710	1,589	2,029	1,882	2,114
Bowdoin C.	501	2,532	2,633	4,277	4,025	2,950	2,873	3,079	2,200	2,506	2,677	2,554	2,112
Tougaloo C.	502	2,978	2,542	1,865	1,857	1,894	1,868	1,747	2,252	2,860	2,293	2,102	2,092
Austin Peay State U.	503	ne	1,603	1,358	1,413	868	863	556	955	1,191	1,169	1,974	2,083
Coastal Carolina U.	504	2,383	2,035	2,232	2,411	2,079	1,750	1,585	1,875	1,629	2,042	1,903	2,062
California State U., Stanislaus	505	ne	1,419	i 1,758	1,104	892	1,078	1,108	1,326	1,371	1,435	1,769	2,056
Minnesota State U., Mankato	506	3,344	1,990	1,614	1,945	1,798	1,632	3,605	1,849	2,293	2,665	2,339	2,034
Texas A&M U.-Commerce	507	2,147	1,316	1,550	1,758	1,606	1,972	1,409	2,250	2,558	2,428	2,544	2,031
U. South Carolina, Aiken	508	337	i 750	ne	1,309	1,133	i 1,154	1,445	2,961	2,582	2,145	2,489	1,994
California State U., Dominguez Hills	509	2,743	2,780	2,894	3,088	1,384	i 1,035	1,460	1,105	1,582	1,563	1,810	1,985
New England C. of Optometry	510	1,457	1,751	2,237	2,172	1,234	1,077	980	ne	1,026	1,223	1,150	1,978
U. Central Arkansas	511	1,700	1,457	1,563	1,444	2,201	2,037	2,132	2,167	2,253	2,150	2,107	1,939
SUNY, Buffalo State	512	1,889	2,532	2,970	2,099	1,971	2,355	2,195	1,868	1,905	2,009	2,208	1,935
Eastern Washington U.	513	3,171	3,780	2,538	2,027	1,820	2,973	3,276	1,964	2,506	1,971	2,221	1,918
CUNY, John Jay C. of Criminal Justice	514	4,354	4,125	5,001	3,799	3,726	3,515	3,252	3,738	5,893	2,986	4,557	1,908
Fort Lewis C.	515	360	606	ne	ne	ne	ne	ne	ne	ne	1,460	1,370	1,906
U. of the Incarnate Word	516	ne	302	ne	ne	ne	576	ne	ne	1,057	1,428	1,408	1,895
Hobart and William Smith Colleges	517	1,320	1,355	1,120	2,042	1,100	654	ne	923	ne	1,846	2,007	1,886
Spelman C.	517	2,740	1,833	1,874	1,366	1,185	1,035	1,291	1,227	1,673	2,004	2,136	1,886
U. Puerto Rico, Cayey	519	713	1,067	1,817	1,726	1,795	1,521	1,415	1,109	1,359	1,870	i 1,974	1,881
Pomona C.	520	2,377	3,115	2,694	3,364	3,412	3,234	3,447	2,787	2,425	2,239	2,582	1,878
SUNY, Geneseo	521	1,174	2,239	1,989	1,082	957	1,162	1,594	1,626	1,813	1,958	1,528	1,847
Mount Holyoke C.	522	2,305	2,810	2,838	2,716	3,335	3,565	3,297	3,635	2,601	2,689	1,895	1,845
C. New Jersey	523	809	420	ne	ne	ne	ne	ne	1,023	867	ne	1,389	1,828
Hawaii Pacific U.	524	ne	592	1,016	983	1,524	1,221	2,351	2,155	2,094	1,960	1,796	1,817
Marymount U.	525	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,812
Mercyhurst U.	526	1,106	581	588	474	887	631	307	976	i 1,673	i 1,719	i 1,808	i 1,808
Savannah State U.	527	1,874	2,700	1,996	2,613	2,210	1,801	2,261	1,405	1,793	1,720	1,804	1,804
U. Wisconsin-Eau Claire	528	1,774	1,287	1,225	1,132	798	ne	1,170	1,557	1,136	1,468	1,275	1,777
Furman U.	529	2,202	2,023	1,889	1,994	1,513	1,748	1,864	2,029	2,015	1,628	2,079	1,776
U. Wisconsin-Green Bay	530	1,128	984	i 991	i 998	i 1,003	i 1,010	i 1,446	i 1,364	i 1,353	i 1,936	i 1,849	i 1,752
Morehead State U.	531	1,882	2,000	2,064	2,376	1,433	1,420	2,089	2,564	2,223	1,624	1,862	1,735



TABLE 79

**Higher education R&D expenditures in science and engineering fields, ranked by FY 2021 R&D expenditures: FYs 2010–21**

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Dillard U.	532	3,707	5,577	i 7,448	7,692	6,907	9,385	9,459	6,943	6,573	2,730	2,487	1,733
Heidelberg U.	533	ne	1,219	i ne	1,129	1,537	1,107	1,286	1,619	1,280	1,237	1,125	1,725
Trinity C., Hartford	534	1,292	1,449	1,675	1,369	1,654	1,217	1,217	2,496	1,423	1,579	1,309	1,720
Monmouth U.	535	2,195	1,956	904	ne	865	ne	900	ne	ne	1,294	1,729	1,667
CUNY, system office	536	ne	ne	819	435	652	828	820	444	2,940	1,713	1,470	1,664
Rhode Island C.	537	ne	2,316	1,569	1,167	907	1,396	1,259	960	776	809	1,438	1,629
Pepperdine U.	538	239	1,134	i 1,455	i 1,107	i 1,298	1,725	1,820	897	691	1,025	1,153	1,564
Manhattan C.	539	498	521	ne	ne	ne	ne	ne	ne	ne	969	1,064	1,522
U. Ana G. Mendez, Gurabo	539	1,054	410	615	566	2,319	1,780	1,747	1,640	1,388	3,823	2,025	1,522
Vassar C.	541	1,236	1,552	993	1,136	999	2,118	i 1,417	1,579	4,185	i 1,009	1,553	1,498
Citadel Military C. South Carolina	542	ne	305	ne	ne	ne	ne	ne	ne	ne	ne	693	1,497
U. Central Oklahoma	543	1,786	1,537	998	1,058	1,207	1,619	1,214	1,054	1,228	1,429	1,422	i 1,489
Roger Williams U.	544	1,174	1,616	1,369	1,283	1,927	1,450	1,815	1,900	1,665	1,459	1,285	1,470
Winthrop U.	545	ne	1,350	1,465	1,207	1,211	1,163	917	853	865	1,146	1,200	1,441
Calvin U.	546	3,720	2,045	2,370	3,408	2,627	1,772	i 1,331	1,306	1,793	1,521	1,444	i 1,439
U. Wisconsin-Oshkosh	547	1,229	1,847	2,027	1,763	i 1,613	i 1,465	i ne	1,338	i 1,361	i 1,386	i 1,409	i 1,432
U. Houston-Clear Lake	548	831	1,273	1,253	1,175	1,013	853	1,067	1,146	1,227	1,113	1,128	1,399
Saint Joseph's U.	549	1,957	1,840	1,704	937	569	650	911	1,316	1,255	1,688	1,748	1,398
Troy U.	550	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,589	1,394
Northeastern Illinois U.	551	376	388	ne	ne	613	ne	ne	805	1,877	2,078	1,378	1,370
U. of the Pacific	551	4,429	3,241	3,753	3,479	1,877	1,488	2,289	1,592	2,228	2,387	1,690	1,370
Union C., Schenectady	553	1,957	1,527	1,378	2,312	1,807	1,431	2,031	1,042	1,297	1,454	837	1,353
Marshall B. Ketchum U.	554	ne	ne	ne	ne	1,030	1,468	1,491	1,512	i 1,451	i 1,430	i 1,357	i 1,351
U. Virginia's C. Wise	555	481	336	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,346
U. Puerto Rico, Humacao	556	1,968	i 1,976	1,949	1,452	1,102	748	ne	ne	1,168	1,195	1,456	1,321
Elizabeth City State U.	557	5,366	10,229	3,811	3,843	2,434	1,837	1,670	1,323	978	ne	1,010	1,319
Purdue U., Fort Wayne	558	4,832	5,206	4,563	5,080	4,348	4,013	3,930	3,317	3,401	1,220	1,380	1,317
U. Hartford	559	1,137	2,414	1,736	1,448	1,305	1,350	1,478	1,572	460	1,528	1,239	1,247
Stockton U.	560	ne	1,226	609	ne	1,155	1,297	759	ne	2,560	2,630	3,198	1,246
West Virginia School of Osteopathic Medicine	561	594	528	ne	ne	ne	ne	ne	ne	ne	ne	1,303	1,245
Connecticut C.	562	1,532	1,801	1,740	1,842	1,966	1,900	1,972	1,875	1,349	1,894	1,598	1,244
Northwestern State U. Louisiana	562	1,407	1,185	1,085	997	792	ne	1,202	1,023	1,199	1,275	1,341	1,244
Grambling State U.	564	993	2,085	1,523	1,327	1,165	1,098	1,454	1,554	1,343	927	855	1,238
SUNY, C. Plattsburgh	565	1,613	1,098	913	ne	1,008	1,087	1,020	1,003	1,604	1,649	1,419	1,229
Black Hills State U.	566	1,741	1,568	1,909	1,983	1,322	1,197	1,722	1,297	918	1,254	1,439	1,204
Biola U.	567	ne	ne	ne	ne	ne	ne	947	i 978	i 1,026	i 1,097	i 1,130	i 1,185

TABLE 79

## Higher education R&amp;D expenditures in science and engineering fields, ranked by FY 2021 R&amp;D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
St. Cloud State U.	568	2,326	1,992	1,489	1,418	1,511	2,148	1,576	1,676	1,694	1,435	1,040	1,179
U. Alaska, Southeast	569	1,620	1,147	1,107	1,241	1,484	1,588	1,725	1,621	1,640	1,341	1,257	1,176
Florida Polytechnic U.	570	na	na	na	na	na	212	ne	ne	ne	1,981	1,071	1,166
Johnson C. Smith U.	571	ne	ne	ne	ne	ne	ne	641	628	1,425	1,034	1,087	1,153 i
Colby C.	572	1,515	1,528	1,709	1,571	1,475	1,573	1,639	1,643	1,948	1,641	1,390	1,133
Macalester C.	572	3,080	3,343	1,518	1,241	1,256	1,096	1,389	1,754	1,218	1,582	1,565	1,133
New Mexico Highlands U.	574	1,463	1,444	1,241	1,209	979	ne	1,111	1,023	952	ne	1,090	1,129 i
Northern Michigan U.	575	423	405	ne	ne	ne	ne	627	653	963	1,047	1,163	1,127
SUNY, C. Brockport	576	831	1,248	1,487	1,183	1,130	1,329	1,331	1,270	1,268	1,372	1,713	1,111
Southeastern Louisiana U.	577	2,172	1,638	1,733	1,642	1,408	1,984	1,550	1,606	1,304	1,140	1,564	1,071
CUNY, York C.	578	ne	2,134	1,153	826	ne	315	ne	ne	ne	1,574	1,648	1,060
Canisius C.	579	221	205	ne	ne	ne	ne	ne	1,398	1,054	943	ne	1,036
Alaska Pacific U.	580	434	518	ne	ne	ne	976	1,009	835	1,325	1,627	1,234	1,034
CUNY, New York City C. of Technology	581	133	284	ne	ne	ne	ne	ne	ne	2,358	2,576	1,902	1,029
Clafin U.	582	3,241	5,202	5,255	2,574	1,618	1,204	1,748	1,354	1,505	1,736	1,910	1,015
Central Connecticut State U.	583	659	1,083	1,248	1,416	971	1,106	1,198	873	ne	966	989	1,007
U. San Francisco	583	1,546	1,734	3,405	2,233	2,208	1,848	1,718	1,009	1,169	1,195	1,157	1,007
Augustana U.	585	912	1,578	1,160	1,045	1,106	756	ne	958	1,128	841	ne	1,003
Seton Hall U.	585	3,030	5,560	679	691	688	736	825	850	724	810	539	1,003
U. Houston-Downtown	587	1,010	1,272	2,123	584	605	1,016	818	1,111	953	481	682	994
Bowie State U.	588	ne	1,910	1,739	1,422	1,761	1,497	1,507	987	1,100	876	1,368	980
Ithaca C.	589	1,046	963	1,079	1,141	1,079	836	ne	ne	ne	ne	1,129	966
SUNY, Oswego	589	783	977	ne	724	ne	ne	ne	1,626	1,953	1,679	1,500	966
U. Wisconsin-Platteville	591	681	715 i	ne	ne	899 i	726 i	ne	812 i	ne	829 i	843 i	950 i
Doane U.	592	ne	1,022	678	ne	1,026	474	ne	ne	952	887	911 i	948 i
Franklin W. Olin C. of Engineering	593	ne	1,012	1,777	1,157	1,561	2,136	1,762	1,301	876	534	491	936
Lewis and Clark C.	593	1,427	1,504	1,222	2,948	3,118	2,480	2,063	1,905	1,407	1,370	1,907	936
Elon U.	595	ne	602 i	707 i	876 i	851	1,054	1,141	1,130	1,304	1,162	890	921
Keene State C.	596	ne	1,029	814 i	597	1,048	966	ne	825	ne	1,061	1,063	919
Eastern Kentucky U.	597	3,017	3,169	2,965	2,182	1,858	1,375	1,340	1,157	1,004	975	912	897
Northland C.	598	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	881 i
Albion C.	599	ne	563	ne	ne	ne	ne	ne	807	738	753	866	868 i
Lafayette C.	600	1,544	1,720	1,308	1,269	973	1,201	959	1,459	1,239	1,101	1,185	859
U. Hawaii, Maui C.	601	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	857
Eastern Connecticut State U.	602	ne	96	ne	ne	574	606	464	770	588	871	1,057	851
National U. of Natural Medicine	603	ne	791	ne	ne	ne	ne	ne	921	ne	1,245	1,428	850



TABLE 79

**Higher education R&D expenditures in science and engineering fields, ranked by FY 2021 R&D expenditures: FYs 2010–21**

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Rhode Island School of Design	640	ne	377	ne	ne	ne	328	354	351	695	691	657	247
Sacred Heart U.	641	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	174
Mills C.	642	122	210	162	325	139	99	257	68	44	230	129	167
Jacksonville State U.	643	398	624	ne	ne	ne	197	457	363	380	167	58	67
La Sierra U.	644	ne	661	ne	ne	283	280	471	228	147	213	180	6
All other surveyed institutions	-	1,751,899	2,179,522	2,154,595	2,072,590	1,408,650	1,418,987	1,444,058	1,523,954	1,606,416	632,364	563,991	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

<sup>a</sup> Johns Hopkins University includes the Applied Physics Laboratory, with \$1,949,752 thousand in total R&D expenditures in science and engineering fields in FY 2021.

<sup>b</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

<sup>c</sup> The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

<sup>d</sup> The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

<sup>e</sup> The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

**Note(s):**

Institutions reporting zero expenditures in ranked total for FY 2021 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 80

## Federally financed higher education R&amp;D expenditures in science and engineering fields, ranked by FY 2021 R&amp;D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
All institutions	-	36,510,431	39,648,595	38,939,996	38,264,373	36,824,264	36,775,605	37,676,152	39,032,870	40,613,346	43,218,658	44,878,387	47,778,518
Johns Hopkins U. <sup>a</sup>	1	1,731,818	1,875,410	1,845,845	1,881,959	1,936,953	1,988,993	2,100,097	2,173,734	2,246,705	2,479,371	2,679,737	2,772,522
U. Washington, Seattle	2	809,433	921,399	876,941	869,623	849,713	851,573	893,050	912,856	955,518	958,103	987,195	1,000,152
U. Michigan, Ann Arbor	3	729,779	801,194	773,766	802,114	733,779	728,712	780,080	822,436	841,158	879,954	877,379	882,167
Georgia Institute of Technology	4	370,532	426,088	482,349	520,754	510,422	548,063	567,100	578,107	646,317	708,682	780,894	838,185
Columbia U. in the City of New York	5	561,531	634,973	631,961	619,557	591,523	577,833	585,578	632,994	673,792	724,232	743,915	804,534
Stanford U.	6	576,553	633,287	607,578	625,144	608,342	645,633	668,578	684,928	685,871	713,688	725,942	785,118
U. Pennsylvania	7	626,816	689,571	656,425	623,939	606,115	597,791	638,336	653,405	671,796	702,747	705,791	776,072
Duke U.	8	513,469	584,161	585,636	580,416	556,847	558,566	574,738	622,174	644,179	708,544	706,023	775,046
U. California, San Diego	9	578,889	635,223	653,549	630,009	597,270	601,184	602,336	639,643	634,676	698,138	726,536	773,484
U. North Carolina, Chapel Hill	10	541,910	592,541	597,629	614,627	601,933	577,574	624,131	657,879	681,581	701,623	685,851	727,045
U. Pittsburgh, Pittsburgh	11	581,148	647,060	620,070	601,358	565,409	554,658	575,281	612,754	643,129	671,380	682,715	719,750
U. California, Los Angeles	12	522,423	545,882	527,899	489,820	458,157	482,771	479,718	479,799	557,986	587,740	642,219	706,193
U. Maryland <sup>b</sup>	13	na	na	na	na	na	na	na	na	na	678,126	669,023	693,294
U. California, San Francisco	14	514,693	570,116	559,329	566,117	544,697	535,457	602,705	606,768	669,470	671,047	676,331	683,179
Yale U.	15	475,010	518,195	517,072	502,439	475,585	471,381	494,504	531,995	549,026	573,491	582,575	641,530
U. Wisconsin-Madison	16	522,473	568,389	557,688	533,220	522,251	506,910	548,247	552,983	555,666	594,094	617,902	631,320
Harvard U.	17	467,237	530,908	574,346	575,868	554,944	530,382	549,539	565,269	578,722	611,123	598,313	609,310
Pennsylvania State U., University Park and Hershey Medical Center	18	463,301	459,333	526,212	556,185	516,300	507,889	532,669	528,181	557,323	591,201	632,245	606,189
Washington U., Saint Louis	19	466,993	460,282	432,434	402,702	410,115	424,723	436,229	468,637	496,648	531,885	545,027	588,717
Cornell U.	20	446,705	476,163	471,024	444,303	438,834	445,266	427,940	435,355	464,468	522,035	558,346	588,001
Northwestern U.	21	356,193	393,449	385,377	389,757	385,888	385,868	424,638	438,732	464,689	497,740	527,958	569,875
Vanderbilt U. and Vanderbilt U. Medical Center	22	377,185	434,213	430,445	432,752	408,743	390,701	395,505	442,669	456,599	470,774	492,333	567,490
U. Minnesota, Twin Cities	23	420,102	482,639	480,531	489,318	483,542	468,482	462,570	448,814	455,294	483,898	503,414	562,697
U. Southern California	24	402,372	443,458	433,136	423,708	421,887	408,105	396,197	436,515	488,081	530,971	549,528	559,032
Icahn School of Medicine at Mount Sinai	25	302,770	296,835	271,722	277,517	300,667	329,641	342,104	367,522	398,656	443,745	480,452	554,582
New York U.	26	250,006	289,172	300,271	283,382	314,712	326,691	332,483	369,947	395,445	416,137	433,598	534,552
Ohio State U.	27	384,633	471,331	416,304	425,547	416,177	406,941	418,887	427,154	439,594	465,081	505,626	523,826
Emory U.	28	336,948	369,945	360,934	364,136	329,254	346,534	360,197	381,151	392,971	423,515	451,487	515,009
Texas A&M U., College Station and Health Science Center	29	276,977	281,063	259,506	302,356	298,489	291,714	281,015	294,602	316,771	342,390	501,396	512,130
Massachusetts Institute of Technology	30	451,050	482,544	478,955	487,647	480,991	486,650	501,702	484,597	476,576	485,821	484,184	480,092
U. Texas, Austin	31	331,439	334,240	328,560	352,788	313,955	331,388	340,181	377,389	386,954	387,551	478,458	465,529
U. Colorado Boulder	32	282,008	313,531	319,019	309,072	302,877	341,828	360,827	359,462	376,870	397,709	412,476	444,381
U. Alabama, Birmingham	33	320,704	340,342	303,677	286,873	276,112	325,008	346,190	356,303	370,401	395,910	397,206	421,209

TABLE 80

## Federally financed higher education R&amp;D expenditures in science and engineering fields, ranked by FY 2021 R&amp;D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
U. Florida	34	269,765	296,950	295,745	285,778	279,920	281,317	297,267	314,187	340,725	369,001	375,577	404,432
Boston U.	35	298,467	300,923	273,204	265,476	254,285	256,562	250,523	253,828	264,281	313,670	333,387	396,685
U. Illinois, Urbana-Champaign	36	294,236	312,796	348,536	459,791	336,172	330,479	320,703	344,657	339,732	369,006	376,505	394,374
U. Chicago	37	348,537	365,824	329,119	294,862	276,237	290,776	293,557	302,361	297,824	327,837	347,734	390,098
U. California, Davis	38	329,041	359,704	356,540	344,632	327,697	322,919	334,534	337,995	354,823	370,601	377,068	369,231
Baylor C. of Medicine	39	284,072	295,529	268,753	285,230	264,641	256,895	267,849	292,806	300,098	309,354	315,101	365,472
U. Colorado Anschutz Medical Campus <sup>C</sup>	40	na	na	na	na	na	na	na	na	na	na	na	363,331
U. Arizona	41	307,038	324,751	328,369	334,680	286,595	265,878	259,443	269,201	287,852	323,060	325,621	350,487
U. California, Berkeley	42	303,201	326,120	333,179	305,932	309,305	342,042	338,562	326,548	324,521	341,328	345,103	348,147
Case Western Reserve U.	43	333,438	352,938	358,722	347,628	328,548	307,960	320,402	325,354	346,935	355,970	356,751	339,658
Michigan State U.	44	198,735	222,937	250,416	246,131	247,970	256,228	294,369	329,533	315,674	317,653	317,885	339,614
Rutgers, State U. New Jersey, New Brunswick	45	218,910	235,178	273,498	288,374	355,116	320,311	318,123	316,118	330,823	287,031	304,486	332,033
U. Utah	46	226,489	263,623	271,629	297,099	284,125	270,311	224,270	218,405	302,586	282,157	306,629	329,537
Oregon Health and Science U.	47	247,054	268,777	242,219	244,867	246,050	243,876	230,608	243,495	264,492	298,227	321,572	329,016
Indiana U., Bloomington	48	67,483	69,298	72,501	82,005	80,109	206,263	216,917	241,350	245,402	304,116	314,721	320,591
U. Rochester	49	321,258	337,312	307,390	298,781	265,686	261,023	265,430	267,040	283,973	305,325	295,154	308,426
U. Cincinnati	50	261,982	286,003	266,507	256,816	243,705	250,457	229,761	239,659	246,400	249,656	283,059	306,411
Colorado State U., Fort Collins	51	205,890	230,661	245,573	213,355	206,958	213,685	227,624	232,405	257,355	276,173	276,863	296,067
California Institute of Technology	52	325,751	340,131	322,295	272,223	276,447	269,156	260,489	272,323	268,765	278,846	309,386	287,810
U. Virginia, Charlottesville	53	224,607	239,249	225,558	212,051	192,907	186,676	198,760	215,193	231,161	257,013	282,429	282,472
U. Iowa	54	280,089	280,989	265,780	252,161	234,122	223,730	236,363	236,679	243,216	248,639	255,617	278,615
Purdue U., West Lafayette	55	221,679	246,116	255,691	258,596	227,857	209,005	214,373	224,965	230,208	231,188	257,641	277,663
Uniformed Services U. of the Health Sciences	56	72,125	117,781	102,134	119,647	213,389	299,007	175,007	204,241	218,702	297,808	235,202	275,573
Scripps Research Institute	57	313,746	317,201	309,471	308,628	292,268	274,097	242,489	250,090	267,088	267,122	243,502	272,181
Utah State U.	58	89,750	112,611	107,054	106,074	114,075	119,811	124,981	137,295	158,576	219,912	241,433	263,341
U. Texas Southwestern Medical Center	59	232,027	231,639	207,513	198,114	185,137	183,787	185,263	200,085	197,910	203,544	242,679	257,611
Arizona State U.	60	164,890	178,153	182,188	190,066	186,126	186,890	200,280	214,845	244,795	253,530	262,377	256,875
U. Massachusetts, Medical School	61	178,293	208,244	202,149	189,159	183,582	183,588	181,446	200,232	194,953	197,388	192,938	248,873
U. New Mexico	62	147,003	161,950	159,302	155,684	151,082	151,619	153,100	159,583	167,315	156,865	158,882	239,587
U. California, Irvine	63	189,343	204,134	204,062	196,256	180,431	170,622	170,674	178,789	192,182	207,234	225,967	237,874
Carnegie Mellon U.	64	179,136	200,878	209,307	215,560	198,247	187,259	190,620	189,974	181,958	197,927	217,481	234,743
North Carolina State U.	65	137,124	152,790	171,464	174,440	177,722	196,058	197,261	213,544	214,440	224,471	227,964	234,181
U. Miami	66	196,435	223,870	222,535	204,315	202,818	192,691	194,346	193,549	191,408	211,493	223,774	230,632
U. Illinois, Chicago	67	229,131	245,323	243,622	219,473	201,646	192,930	175,302	188,730	189,322	200,926	215,990	230,140
Woods Hole Oceanographic Institution	68	153,066	165,819	161,115	158,672	177,616	172,995	166,010	148,491	163,003	184,995	191,186	222,351

TABLE 80

## Federally financed higher education R&amp;D expenditures in science and engineering fields, ranked by FY 2021 R&amp;D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
U. Kentucky	69	167,192	175,801	157,813	148,758	140,450	145,097	152,708	168,347	168,968	189,860	197,848	218,566
U. Texas M. D. Anderson Cancer Center	70	206,664	236,400	196,753	182,971	158,986	161,171	155,044	166,552	173,206	176,156	186,488	217,073
Albert Einstein C. of Medicine	71	na	na	na	na	na	na	188,521	188,259	196,457	202,513	204,635	214,619
Virginia Polytechnic Institute and State U.	72	161,636	187,269	181,371	197,462	198,092	191,080	190,975	181,379	195,140	206,208	208,952	214,291
SUNY, U. Buffalo	73	164,477	176,923	186,747	200,212	185,144	174,146	180,095	184,313	183,124	178,458	195,829	207,224
Princeton U.	74	149,164	162,491	160,985	156,070	163,805	157,867	161,562	175,485	179,659	192,747	202,447	204,430
Brown U.	75	120,749	123,649	127,665	120,977	125,005	127,886	131,751	141,864	161,384	175,849	183,180	195,302
Wake Forest U.	76	159,084	173,004	172,779	156,506	153,069	148,084	140,651	147,746	154,031	165,439	166,480	188,809
U. Georgia	77	117,225	134,200	133,525	127,487	122,145	127,825	138,374	153,279	144,926	156,628	167,347	184,847
U. Oklahoma, Norman and Health Science Center	78	100,065	112,146	124,131	119,762	108,356	122,918	128,260	126,510	142,470	159,640	179,640	181,388
U. Connecticut	79	128,700	141,252	150,402	146,400	139,594	135,349	143,955	141,977	139,022	153,496	160,763	180,758
U. Dayton	80	72,567	69,847	64,369	66,396	63,881	74,548	97,635	112,584	130,488	152,545	153,215	180,479
Oregon State U.	81	135,081	146,069	155,667	148,174	143,815	150,625	156,437	157,708	166,354	162,781	161,646	173,532
Tufts U.	82	115,159	120,864	120,042	112,495	115,046	120,181	124,363	138,004	128,404	136,088	145,473	165,222
U. Texas Health Science Center, Houston	83	150,324	156,790	146,424	144,235	136,145	125,890	121,098	124,461	128,232	132,647	133,624	165,139
Washington State U.	84	105,333	115,775	120,146	119,921	112,568	121,627	122,275	133,308	131,229	137,424	135,023	162,455
Medical U. South Carolina	85	131,650	143,464	136,907	127,472	118,649	117,255	124,212	134,072	142,639	153,226	153,802	162,394
SUNY, Stony Brook U.	86	120,090	124,938	123,198	118,432	111,386	115,031	118,296	125,150	134,802	143,258	145,526	161,552
U. South Florida <sup>d</sup>	87	219,634	220,931	218,772	207,441	205,155	196,215	210,823	234,871	163,013	164,662	142,086	161,278
Iowa State U.	88	108,181	116,109	117,144	120,934	115,285	113,443	124,242	125,607	145,241	145,541	161,153	160,520
George Washington U.	89	120,844	115,463	111,068	119,441	139,148	135,667	138,735	144,567	153,412	152,562	154,026	158,475
U. Hawaii, Manoa	90	196,275	201,700	193,722	225,263	202,574	199,818	189,683	181,750	166,398	167,432	163,091	156,953
U. Kansas	91	137,458	143,300	147,052	147,557	131,186	128,374	117,549	126,109	130,036	141,679	151,987	156,707
U. Delaware	92	102,637	112,523	110,760	114,048	111,933	109,258	108,378	113,031	113,582	128,651	139,682	152,665
Dartmouth C. and Dartmouth Hitchcock Medical Center	93	117,909	131,518	147,218	154,917	145,080	145,807	138,641	136,977	139,692	137,337	141,040	151,449
Temple U.	94	76,170	85,021	85,062	124,764	118,892	119,945	134,132	143,636	141,505	150,201	146,564	146,101
U. Missouri, Columbia	95	113,362	113,072	110,446	108,305	102,784	102,852	116,337	122,821	126,164	128,293	137,029	145,070
Virginia Commonwealth U.	96	125,713	134,431	124,836	119,293	119,507	123,665	124,962	127,341	122,771	125,393	135,266	141,521
Northeastern U.	97	56,727	65,757	75,733	82,587	77,401	78,379	78,668	90,190	109,443	122,663	131,752	138,641
Medical C. Wisconsin	98	121,750	133,929	125,325	116,765	111,241	109,542	108,529	108,276	111,273	119,036	128,783	136,385
U. Tennessee, Knoxville <sup>e</sup>	99	83,491	99,712	103,147	104,558	106,778	101,608	106,930	115,320	116,028	121,549	136,741	133,073
Georgetown U.	100	119,509	122,802	113,229	113,703	99,567	87,268	82,819	93,224	88,778	93,004	98,138	128,798
Florida State U.	101	127,571	136,332	131,998	132,583	140,995	133,569	118,294	118,359	129,435	131,472	141,229	127,509
U. Alaska, Fairbanks	102	97,889	103,677	97,472	92,602	83,483	78,985	87,829	95,467	93,562	91,405	99,572	126,247
U. California, Santa Barbara	103	127,696	132,490	134,984	131,392	119,816	114,596	114,884	113,173	110,065	115,569	121,120	119,203

TABLE 80

## Federally financed higher education R&amp;D expenditures in science and engineering fields, ranked by FY 2021 R&amp;D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
U. Texas Medical Branch	104	128,840	128,098	109,867	108,287	101,761	98,050	100,464	104,458	104,356	107,806	114,103	117,915
U. Alabama, Huntsville	105	71,461	70,197	75,715	83,396	73,913	66,564	68,882	68,259	74,315	84,689	103,599	116,441
Mississippi State U.	106	105,224	97,987	96,132	73,834	70,615	79,181	86,570	87,435	88,365	103,546	119,093	114,492
Tulane U.	107	106,021	110,222	101,130	97,873	94,287	84,143	89,028	93,747	102,090	104,187	107,216	113,434
U. Massachusetts, Amherst	108	97,131	106,315	106,470	103,233	102,682	97,206	97,576	101,992	103,555	110,063	112,546	112,146
Wayne State U.	109	131,418	133,925	125,965	118,217	112,608	108,221	109,460	106,865	107,791	114,349	108,536	111,708
U. Nebraska, Medical Center	110	80,784	86,295	84,196	80,750	76,195	71,918	76,221	84,814	93,463	102,604	105,158	111,042
Thomas Jefferson U.	111	77,817	80,027	68,976	56,247	54,676	58,536	58,866	62,029	64,869	74,816	74,653	109,419
U. Texas Health Science Center, San Antonio	112	121,723	121,200	106,177	99,198	89,303	85,940	89,742	85,455	86,956	96,502	102,959	106,824
Montana State U., Bozeman	113	84,735	78,431	78,409	66,451	66,770	62,827	61,490	66,449	67,705	80,955	84,960	104,973
U. Notre Dame	114	61,645	79,003	82,244	79,268	79,192	82,615	85,870	90,038	92,144	102,335	99,743	104,905
U. Nebraska, Lincoln	115	97,538	106,575	105,440	98,534	93,190	94,763	93,532	99,956	102,078	108,207	104,794	103,590
U. Vermont	116	98,588	101,465	87,843	85,028	79,727	83,733	83,124	78,383	86,936	90,378	97,676	103,118
U. Central Florida	117	67,795	66,736	72,620	68,691	64,323	81,788	80,365	82,777	89,504	90,851	94,617	102,599
Florida International U.	118	52,784	61,687	54,204	57,858	68,946	67,293	68,539	66,351	80,417	90,067	97,758	100,470
George Mason U.	119	59,591	61,016	57,504	57,154	53,775	54,113	50,687	52,432	64,315	91,377	99,332	99,910
Louisiana State U., Baton Rouge	120	94,611	96,050	91,238	93,281	93,584	82,276	84,954	80,044	83,453	87,498	86,975	97,985
Rockefeller U.	121	88,705	97,710	84,616	80,384	81,820	81,949	80,667	86,763	87,231	84,566	86,280	96,318
U. New Hampshire	122	76,191	96,552	109,728	92,778	89,640	83,106	89,457	85,714	87,854	84,599	94,554	95,579
U. California, Riverside	123	58,159	59,351	61,304	57,032	56,327	62,642	69,924	75,920	75,990	79,666	90,235	95,480
Rice U.	124	69,176	78,249	76,431	79,742	73,782	73,817	82,643	83,894	77,607	83,105	86,675	93,114
U. Louisville	125	83,593	84,557	79,252	72,047	63,258	66,368	69,781	69,722	77,281	83,421	83,626	91,928
U. South Carolina, Columbia	126	119,890	100,045	93,237	87,562	87,844	84,723	88,231	89,565	80,948	88,052	90,313	91,142
Auburn U., Auburn	127	53,648	59,061	55,118	56,809	49,739	47,939	54,258	54,693	57,718	63,660	72,844	90,386
Drexel U.	128	75,339	81,424	85,584	74,047	75,557	67,226	65,193	69,326	80,074	81,957	77,965	88,198
U. California, Santa Cruz	129	81,598	95,015	91,409	88,600	89,206	91,249	93,651	65,133	62,218	73,635	75,813	85,887
West Virginia U.	130	74,465	84,061	77,981	72,677	67,450	66,608	70,313	70,256	73,518	79,320	77,455	85,717
Clemson U.	131	59,374	49,365	48,182	47,825	44,673	45,292	52,184	62,920	66,618	72,335	74,438	83,731
U. Arkansas for Medical Sciences	132	72,217	75,924	69,883	64,856	55,556	50,603	48,999	51,298	57,523	63,498	70,508	83,387
U. Rhode Island	133	60,963	77,668	78,194	70,900	61,836	61,085	58,438	59,623	61,135	69,913	65,860	76,992
U. Nevada, Reno	134	58,115	55,374	55,150	53,898	50,904	49,977	51,630	53,438	59,879	60,967	63,827	76,240
Kansas State U.	135	66,400	74,414	73,247	67,524	64,565	66,632	67,863	72,321	77,730	78,878	76,164	74,930
U. Mississippi	136	69,031	72,456	72,855	62,816	63,070	58,797	63,372	61,232	62,721	72,731	80,923	74,055
Rush U.	137	51,304	57,978	57,512	57,063	53,501	52,193	50,332	51,532	64,178	68,941	65,343	73,279
U. Houston	138	50,148	57,090	54,657	57,569	55,574	54,516	58,085	57,263	62,134	66,848	68,987	73,234
Wichita State U.	139	13,633	15,425	14,267	10,161	8,100	6,397	7,947	19,507	16,522	26,633	50,042	72,487



TABLE 80

## Federally financed higher education R&amp;D expenditures in science and engineering fields, ranked by FY 2021 R&amp;D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
New Jersey Institute of Technology	140	47,832	52,873	57,513	55,017	51,853	50,554	63,322	64,840	78,313	87,588	82,331	71,860
U. Oregon	141	66,809	71,344	71,157	61,856	62,824	56,448	55,137	57,092	56,403	63,912	66,182	68,617
U. Montana, Missoula	142	40,116	38,176	35,590	33,825	30,164	33,617	38,726	44,465	51,975	52,919	58,745	66,840
New Mexico State U.	143	98,050	90,283	90,338	86,546	80,247	78,253	61,494	59,087	53,417	57,183	60,056	64,235
U. Maine	144	48,270	59,644	39,428	33,903	50,338	35,033	34,125	37,189	45,206	49,832	52,755	63,250
Augusta U.	145	na	na	na	47,913	47,771	50,585	50,294	48,921	48,800	47,031	55,797	61,943
Georgia State U.	146	23,732	21,980	27,251	28,216	29,470	36,843	40,897	54,842	55,241	54,882	62,835	61,436
Colorado School of Mines	147	28,416	31,414	31,399	31,585	33,908	33,578	34,708	36,650	39,311	48,593	53,875	59,547
U. Maryland, Baltimore County	148	58,597	61,110	44,669	44,257	46,993	47,591	50,645	52,008	52,934	54,740	58,178	58,317
U. Texas, Dallas	149	30,019	32,355	34,088	31,903	32,096	30,776	34,532	35,244	39,010	47,443	55,225	57,778
Cold Spring Harbor Laboratory	150	ne	51,529	43,874	41,002	41,845	49,063	50,478	54,260	67,139	73,854	62,068	56,889
U. North Dakota	151	52,381	53,913	54,411	46,397	40,191	37,457	42,253	40,845	48,858	47,235	42,021	56,742
U. Tennessee, Health Science Center	152	52,650	51,840	48,473	42,269	41,830	39,356	38,374	39,138	39,421	42,396	48,264	56,021
SUNY, U. Albany	153	123,404	124,848	112,161	113,736	104,861	78,824	74,092	82,551	84,561	91,225	66,162	55,478
U. Wyoming	154	44,026	47,782	55,663	52,296	39,778	47,232	63,223	56,178	42,538	51,657	56,078	54,183
Rensselaer Polytechnic Institute	155	54,559	58,951	62,063	60,765	58,940	59,417	48,887	47,749	46,385	47,245	47,934	49,836
Naval Postgraduate School	156	86,765	88,950	120,209	86,538	89,284	71,987	50,560	42,246	41,151	49,168	48,709	49,366
U. Idaho	157	45,082	52,812	53,765	52,430	49,423	49,591	50,083	48,879	47,475	48,462	49,818	49,306
U. Louisiana, Lafayette	158	12,060	11,879	12,435	10,007	9,050	10,315	9,479	14,953	20,766	30,341	25,919	47,788
U. Massachusetts, Lowell	159	24,475	26,802	25,670	25,441	25,874	28,998	26,499	28,078	28,982	33,948	40,037	46,970
Cleveland State U.	160	24,894	42,292	46,205	50,002	44,139	41,721	49,659	52,317	54,987	50,982	53,234	46,838
U. Alabama, Tuscaloosa	161	25,945	32,387	32,515	27,963	25,477	28,029	27,019	24,344	27,660	33,233	37,198	46,389
U. Arkansas, Fayetteville	162	32,659	37,203	34,123	30,562	26,014	33,486	39,527	42,198	48,288	46,871	45,196	45,674
Oklahoma State U., Stillwater	163	56,998	81,855	85,876	44,200	36,687	38,498	41,186	42,331	40,052	38,757	38,419	45,243
U. Texas, Arlington	164	29,671	28,190	30,473	28,588	24,079	26,858	24,853	30,588	34,063	39,198	42,157	44,134
Brandeis U.	165	43,282	47,793	44,061	43,963	45,800	46,764	47,708	44,819	37,371	40,333	40,815	43,322
U. Southern Mississippi	166	36,729	40,764	34,487	28,324	25,956	24,710	23,952	26,104	30,331	45,687	41,791	43,078
U. Texas, El Paso	167	34,439	34,765	39,274	37,741	34,528	40,334	41,384	43,759	43,214	40,111	37,495	42,385
U. Texas, San Antonio	168	27,036	28,011	29,168	28,066	22,518	23,108	24,493	28,650	28,943	32,986	32,512	41,177
Michigan Technological U.	169	27,407	32,508	32,835	31,734	30,214	28,581	29,609	28,332	32,366	34,488	35,912	41,123
Northern Arizona U.	170	14,990	17,687	15,946	15,533	18,044	20,111	22,997	25,615	29,137	35,156	38,492	40,890
Saint Louis U.	171	33,655	38,206	35,841	31,230	29,396	27,343	26,323	27,005	27,694	33,941	34,163	40,628
San Diego State U.	172	53,746	59,769	51,690	45,175	44,807	43,526	42,062	37,226	37,873	37,595	39,049	40,387
North Dakota State U.	173	51,198	52,543	45,326	37,128	35,308	35,037	34,792	34,134	34,485	34,693	31,109	37,647
Howard U.	174	32,211	35,632	37,336	33,403	32,052	38,051	32,967	33,893	32,573	29,422	28,785	34,907
Mercer U.	175	18,778	17,904	19,963	19,411	19,666	21,563	21,120	19,772	18,999	27,035	31,572	34,413

TABLE 80

**Federally financed higher education R&D expenditures in science and engineering fields, ranked by FY 2021 R&D expenditures: FYs 2010–21**

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Louisiana State U., Health Sciences Center, New Orleans	176	46,142	45,581	40,637	36,886	34,637	36,027	31,526	28,018	26,988	31,290	31,381	34,272
CUNY, City C.	177	32,170	39,064	39,063	39,756	39,860	37,900	37,359	34,718	36,402	32,975	30,038	34,100
U. Puerto Rico, Medical Sciences Campus	178	29,813	54,381	35,173	31,037	30,197	31,889	33,348	29,869	30,597	34,570	27,033	33,262
Stevens Institute of Technology	179	26,366	31,269	25,794	23,004	22,130	25,054	28,090	26,438	25,521	27,703	32,141	32,625
U. North Texas, Health Science Center	180	25,847	26,132	26,627	24,187	21,943	22,422	27,163	26,368	27,579	27,260	25,917	32,464
U. Toledo	181	36,984	42,680	38,563	37,539	31,648	26,428	24,860	22,371	25,056	27,802	27,412	32,411
Texas Tech U.	182	32,680	32,881	27,698	25,153	26,161	25,458	24,586	23,426	24,503	29,857	29,685	32,129
U.S. Air Force Academy	183	43,803	60,292	36,316	42,303	32,284	29,417	44,567	34,664	27,650	34,940	33,308	31,818
Florida A&M U.	184	26,311	30,771	27,951	28,446	25,313	26,700	28,021	27,899	29,861	32,117	30,022	31,669
Boise State U.	185	14,237	18,423	19,446	15,181	15,183	17,562	16,112	18,754	23,157	22,354	25,121	30,053
San Jose State U.	186	21,576	23,207	21,830	24,574	28,475	31,250	30,021	30,063	31,592	33,072	32,061	29,856
Syracuse U.	187	26,971	25,272	25,327	22,564	24,163	26,769	28,793	31,902	33,045	32,143	27,538	29,354
Worcester Polytechnic Institute	188	12,705	14,773	12,161	16,275	18,310	25,743	24,854	18,559	18,084	22,144	25,320	29,202
Boston C.	189	31,351	23,845	23,685	22,780	19,462	17,409	23,184	26,937	27,674	28,017	25,213	28,738
Brigham Young U., Provo	190	18,373	19,741	17,381	19,931	20,214	20,769	24,791	23,631	21,367	21,977	22,789	28,614
Indiana U.-Purdue U., Indianapolis	191	147,375	154,966	165,374	151,962	142,589	18,090	19,507	19,630	22,071	25,672	30,289	28,541
Rochester Institute of Technology	192	19,493	18,546	17,435	16,186	16,765	17,479	22,545	23,913	22,692	22,195	24,079	27,703
SUNY, Downstate Health Sciences U.	193	25,023	33,964	34,884	31,972	25,802	20,779	25,941	22,496	26,302	26,914	26,454	27,620
Lehigh U.	194	22,084	20,485	20,419	20,878	20,677	20,680	19,512	22,640	23,649	24,282	25,574	27,483
Florida Atlantic U.	195	16,457	14,793	14,926	12,480	12,317	10,402	14,443	16,430	18,076	21,050	22,787	27,479
Air Force Institute of Technology	196	13,514	18,986	17,919	17,614	16,342	16,369	19,660	25,558	23,393	21,856	22,854	27,025
Missouri U. of Science and Technology	197	28,239	27,961	23,731	25,551	21,474	17,306	18,811	19,534	21,793	22,337	22,853	26,164
Loyola U., Chicago	198	27,953	27,588	27,786	32,008	29,989	27,380	24,916	22,861	21,131	22,919	23,277	25,824
U. North Carolina, Charlotte	199	15,444	14,358	16,997	18,257	16,637	17,028	18,733	19,436	21,366	24,917	26,335	25,804
U. Nevada, Las Vegas	200	31,497	29,642	24,567	23,980	26,585	26,970	24,683	28,460	32,711	27,172	28,187	25,764
SUNY, Polytechnic Institute	201	na	na	na	na	21,208	14,641	21,380	41,247	41,753	38,222	27,993	25,427
Morehouse School of Medicine	202	25,855	28,128	31,786	34,511	33,020	30,012	28,678	28,792	24,326	22,461	22,500	25,181
SUNY, Upstate Medical U.	203	27,959	28,663	27,013	23,730	21,334	19,213	18,942	19,991	20,391	22,028	23,940	24,974
Illinois Institute of Technology	204	27,780	33,016	27,515	28,255	25,506	25,479	23,542	26,191	27,742	28,753	24,152	24,649
New Mexico Institute of Mining and Technology	205	42,243	37,316	29,894	23,581	33,168	19,975	16,657	18,271	19,437	22,771	22,598	24,642
William & Mary	206	22,478	23,502	25,349	24,619	27,232	27,722	28,771	28,062	27,836	27,112	25,460	24,533
Portland State U.	207	25,853	29,660	30,090	27,899	26,147	23,389	25,310	23,645	23,437	26,301	24,752	24,097
U. Wisconsin-Milwaukee	208	23,641	28,336	26,424	23,872	23,726	24,222	22,519	21,673	24,348	22,909	24,713	23,944
Old Dominion U.	209	30,534	34,084	31,877	30,478	30,568	27,857	27,556	32,898	28,792	27,633	26,904	23,158
U. South Alabama	210	14,343	16,259	13,294	13,361	13,478	15,025	17,131	15,856	14,572	19,383	21,359	22,924
Catholic U. of America	211	15,837	19,651	17,350	17,154	17,061	19,548	19,451	19,364	20,423	21,408	22,244	22,886

TABLE 80

## Federally financed higher education R&amp;D expenditures in science and engineering fields, ranked by FY 2021 R&amp;D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021		
Van Andel Research Institute	212	ne	ne	ne	ne	ne	8,138	i	11,970	13,108	14,285	18,259	18,538	22,231	
SUNY, Binghamton U.	213	20,766	20,443	20,151	16,749	14,757	16,038	18,363	20,601	22,964	23,626	24,027	22,012		
North Carolina Agricultural and Technical State U.	214	23,878	22,499	21,468	20,956	22,609	21,802	19,808	23,046	22,212	20,924	19,170	21,835		
CUNY, Hunter C.	215	17,543	21,191	22,078	21,465	18,825	19,018	19,597	18,179	20,053	21,188	23,638	21,275		
U. Missouri, Kansas City	216	16,139	18,748	17,219	15,406	14,613	12,810	12,739	11,145	10,396	18,400	21,921	20,784		
U. Nebraska, central administration	217	ne	ne	ne	ne	ne	ne	ne	ne	12,561	17,360	22,246	20,349		
Tennessee State U.	218	6,936	7,732	9,393	9,354	11,886	10,920	11,590	9,226	9,336	8,449	19,052	20,145	i	
East Carolina U.	219	15,587	17,636	16,946	17,789	16,992	14,926	13,057	11,386	11,654	15,544	16,583	19,633		
Wright State U.	220	24,785	27,422	25,519	26,496	27,523	26,814	30,093	35,514	43,359	41,362	35,267	19,393		
Ohio U.	221	18,209	21,938	20,340	20,134	16,425	17,140	14,421	16,017	13,512	14,453	15,466	19,048		
South Dakota State U.	222	38,309	41,876	41,941	33,226	29,454	28,488	29,605	27,940	27,013	29,530	22,387	18,505		
Ponce Health Sciences U.	223	7,569	9,318	10,486	6,249	4,960	6,729	6,951	7,108	6,386	8,339	11,228	18,284		
U. Memphis	224	17,726	16,738	19,113	15,747	18,344	16,250	16,784	16,958	23,463	17,074	15,927	17,538		
Rowan U.	225	1,737	2,071	2,295	1,875	4,588	4,665	5,239	7,110	9,568	11,909	15,276	17,211		
U. California, Merced	226	9,192	9,744	10,741	10,733	10,506	12,607	12,166	14,660	14,041	16,513	19,505	16,980		
U. North Texas, Denton	227	11,997	12,255	15,921	14,974	15,054	14,286	11,524	14,043	17,514	16,094	12,019	16,810		
Desert Research Institute	228	28,307	28,489	27,294	22,814	19,932	16,511	18,883	18,839	17,911	16,745	15,791	16,641		
Texas State U.	229	6,815	5,971	6,770	11,088	9,696	11,318	9,786	10,739	12,298	13,503	13,298	15,936		
San Francisco State U.	230	15,407	17,337	17,075	18,638	16,753	14,336	12,277	13,782	13,346	15,149	15,514	i	15,670	
Tuskegee U.	231	10,986	11,033	11,243	13,132	14,102	i	12,265	i	10,386	10,386	10,386	14,825	15,122	15,424
Morgan State U.	232	10,035	9,878	15,279	13,301	14,131	12,693	14,305	13,215	11,450	11,844	14,016	15,207		
U. Puerto Rico, Rio Piedras	233	21,130	24,336	24,867	17,190	17,489	18,177	15,870	11,137	9,826	13,670	13,767	14,953		
U. Massachusetts, Boston	234	17,787	15,040	17,649	13,471	14,544	15,464	17,326	16,308	16,852	16,117	15,007	14,938		
Rutgers, State U. New Jersey, Newark	235	12,243	17,503	19,296	12,420	11,014	11,118	12,662	15,171	15,129	14,063	14,725	14,891		
U. Alaska, Anchorage	236	8,485	9,352	10,041	8,799	7,212	8,015	11,282	11,592	12,530	13,665	15,128	14,852		
Southern Methodist U.	237	12,142	17,819	15,839	13,516	18,427	11,806	12,910	11,978	11,568	15,219	15,559	14,803		
Eastern Virginia Medical School	238	29,291	25,319	24,694	28,728	28,532	28,637	21,459	21,209	21,356	19,408	15,748	14,774		
Embry-Riddle Aeronautical U.	239	8,241	9,257	12,126	9,906	12,614	9,940	13,957	10,501	12,584	8,890	11,391	14,258		
U. Guam	240	4,962	5,242	5,311	5,390	6,321	5,455	6,576	8,051	8,425	9,104	9,364	13,862		
Meharry Medical C.	241	24,302	26,779	23,467	21,135	17,754	13,068	13,528	15,613	14,515	16,443	12,573	13,784		
U.S. Military Academy	242	19,763	i	12,314	11,702	11,612	13,247	13,135	12,281	7,247	6,313	6,432	8,068	13,657	
Kent State U.	243	13,311	13,334	13,425	10,009	9,350	9,594	8,733	9,204	10,265	12,576	13,406	13,620		
U. Denver	244	10,180	10,463	9,135	10,082	8,794	8,134	8,895	9,681	12,938	13,157	14,551	13,513		
Marquette U.	245	9,115	10,898	9,557	8,491	7,988	9,139	10,136	10,111	10,451	12,613	12,981	13,470		
California State U., Northridge	246	11,122	8,729	13,965	7,778	11,007	10,889	10,136	12,952	13,822	15,543	16,478	13,363		
U. Maryland Center for Environmental Science	247	12,123	18,007	16,081	16,852	13,202	11,993	12,156	14,482	14,276	16,573	14,622	13,242		

TABLE 80

## Federally financed higher education R&amp;D expenditures in science and engineering fields, ranked by FY 2021 R&amp;D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Albany Medical C.	248	15,758	13,884	11,845	10,278	9,716	9,481	10,714	11,040	10,243	11,827	12,940	13,166
U. of the Virgin Islands	249	27,291	15,717	i 22,605	15,627	10,475	i 19,456	20,951	10,701	10,748	9,903	11,778	13,099
U. Nebraska, Omaha	250	4,128	5,034	5,589	5,230	4,979	4,484	6,657	7,038	7,043	7,655	8,626	12,949
Jackson State U.	251	34,927	36,460	33,342	27,285	19,898	18,449	19,934	18,997	16,990	16,156	13,560	12,939
U. Hawaii, system office	252	ne	ne	ne	ne	ne	ne	ne	ne	12,328	12,052	13,367	12,688
U. Puerto Rico, Mayaguez	253	12,505	18,269	19,536	13,830	13,638	15,313	14,403	13,585	14,092	15,653	15,842	12,683
Southern Illinois U., Carbondale	254	22,209	23,696	22,055	18,398	16,288	14,895	14,574	13,421	12,733	12,625	12,735	12,655
Marshall U.	255	18,218	21,433	13,154	13,468	12,684	11,080	9,077	9,036	8,519	9,579	11,070	12,522
Delaware State U.	256	9,967	11,901	11,053	11,802	12,464	12,075	14,613	13,909	12,039	11,936	10,841	i 12,461
Florida Institute of Technology	257	8,903	7,387	7,189	7,112	7,706	8,251	8,714	8,440	8,333	10,043	10,448	12,386
Louisiana State U., Health Sciences Center, Shreveport	258	13,890	15,316	13,504	11,753	8,490	6,321	6,478	7,055	9,235	12,185	11,452	12,359
U. North Carolina, Greensboro	259	10,857	12,155	10,943	10,520	10,589	11,106	12,279	10,845	10,441	11,527	10,579	12,357
U. Texas Rio Grande Valley	260	na	na	na	na	na	na	16,821	14,766	13,308	13,320	12,590	12,355
CUNY, Graduate School of Public Health and Health Policy	261	na	na	na	na	na	na	na	na	5,080	5,572	8,722	12,254
Texas Tech U., Health Sciences Center	262	12,950	14,790	13,944	14,804	9,480	9,949	9,943	8,995	7,477	11,262	12,977	12,114
U. Texas Health Science Center, Tyler	263	ne	ne	ne	ne	ne	3,713	3,757	5,792	6,438	i 7,084	i 7,732	12,007
CUNY, Advanced Science Research Center	264	na	na	na	na	na	257	ne	2,355	4,027	6,859	9,208	11,840
CUNY, Queens C.	265	13,496	15,491	14,829	14,689	15,809	13,532	13,966	11,780	11,882	12,862	12,208	11,779
South Dakota School of Mines and Technology	266	25,172	28,051	14,338	7,853	7,029	9,286	10,370	10,639	10,240	9,283	10,659	11,587
U. South Dakota	267	16,353	14,337	13,601	14,991	11,932	8,464	8,827	11,117	12,346	13,312	12,899	11,541
Hampton U.	268	14,455	12,292	15,290	12,620	11,153	14,619	13,572	15,908	13,669	12,943	10,842	11,181
Xavier U. Louisiana	269	5,669	6,673	7,177	5,856	7,077	7,735	10,487	10,901	9,971	8,526	9,628	11,074
Baylor U.	270	2,842	3,386	3,289	3,435	3,991	3,839	4,214	5,255	5,749	6,885	8,684	10,879
California State U., Long Beach	271	12,096	11,570	i 11,044	i 10,517	7,689	6,047	10,960	12,991	13,704	13,380	11,846	10,849
California Polytechnic State U., San Luis Obispo	272	11,396	8,296	9,618	9,442	8,903	9,651	10,966	10,035	9,313	9,574	9,765	10,785
New York Medical C.	273	21,095	21,013	16,471	13,806	11,421	11,326	10,772	9,000	i 8,141	i 11,061	i 12,106	10,739
Nova Southeastern U.	274	5,669	6,829	6,570	5,334	5,906	5,856	6,922	7,672	7,772	8,911	10,452	10,386
U.S. Naval Academy	275	10,750	10,243	8,868	10,142	10,216	8,978	11,006	12,946	13,331	12,851	12,281	10,247
Loma Linda U.	276	27,175	30,899	23,447	24,991	19,044	21,082	16,118	15,192	13,806	i 12,548	i 11,289	i 10,031
Northeast Ohio Medical U.	277	4,009	4,081	3,816	5,244	6,582	7,607	9,181	10,043	9,743	10,107	10,684	9,999
Charles R. Drew U. of Medicine and Science	278	20,430	20,679	19,733	17,144	19,412	12,992	12,089	14,461	10,198	10,427	9,863	9,945
North Carolina Central U.	279	6,870	9,043	10,573	7,750	9,320	10,293	9,691	10,627	10,728	12,235	11,883	9,831
Texas A&M U.-Corpus Christi	280	7,647	7,225	5,387	5,990	7,085	9,155	7,078	9,057	11,694	13,131	12,453	9,782
Rosalind Franklin U. of Medicine and Science	281	8,350	9,317	10,084	11,202	9,754	9,368	8,478	8,828	9,249	8,865	8,504	9,357
Prairie View A&M U.	282	8,623	11,041	10,561	9,077	8,259	7,958	7,896	8,674	8,386	9,246	9,134	9,315

TABLE 80

## Federally financed higher education R&amp;D expenditures in science and engineering fields, ranked by FY 2021 R&amp;D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
American U.	283	6,263	6,549	5,254	5,613	7,426	8,444	8,280	7,601	11,237	13,762	13,491	9,064
U. Colorado Denver <sup>C</sup>	284	na	na	na	na	na	na	na	na	na	na	na	9,058
Northern Illinois U.	285	16,907	11,226	12,311	12,178	8,697	8,915	9,679	6,164	6,925	6,705	6,025	9,014
U. Akron	286	11,943	12,833	16,605	19,600	20,187	14,510	25,362	16,124	12,280	11,627	10,509	8,953
Missouri State U.	287	6,051	4,756	3,697	3,129	3,027	3,141	2,633	2,659	3,977	4,907	12,232	8,928
Miami U.	288	11,546	11,476	12,447	11,314	10,311	9,278	7,699	7,568	7,924	7,680	8,829	8,854
Teachers C., Columbia U.	289	6,478	8,433	10,120	8,492	8,909	12,666	11,373	10,194	8,925	8,054	7,614	8,521
Creighton U.	290	11,850	14,080	14,209	13,272	11,427	9,164	10,406	7,787	5,601	8,113	7,444	8,426
U. Maryland, Eastern Shore	291	8,583	8,587	6,955	8,511	8,902	9,284	7,853	7,265	4,890	6,983	8,084	8,346
East Tennessee State U.	292	6,121	7,705	8,052	6,825	4,865	4,664	5,655	5,870	7,168	7,688	7,329	8,310
California State U., San Marcos	293	3,548	3,548	3,548	3,550	3,177	3,709	4,591	4,869	6,373	8,007	10,310	7,926
Chapman U.	294	1,429	1,215	1,465	2,227	2,170	2,348	2,951	3,414	3,780	5,359	7,313	7,881
Western Michigan U. and Homer Stryker M.D. School of Medicine	295	10,120	11,444	8,295	7,547	7,185	7,216	6,863	7,447	6,948	5,654	5,374	7,853
Texas A&M U.-Kingsville	296	5,067	4,765	4,980	4,988	6,415	5,483	5,910	5,827	5,640	6,874	8,253	7,822
U. Massachusetts, Dartmouth	297	11,236	12,253	10,329	8,076	8,413	7,134	6,463	7,118	6,595	6,957	6,066	7,626
Alcorn State U.	298	9,256	8,655	8,598	8,321	7,447	6,784	6,387	8,634	7,372	7,540	7,023	7,593
Oakland U.	299	7,024	9,001	8,168	6,855	5,986	5,339	6,154	6,414	5,733	6,690	5,058	7,426
Tennessee Technological U.	300	6,958	5,119	4,154	3,566	3,662	3,508	4,015	4,808	5,269	5,996	6,338	7,261
Idaho State U.	301	13,591	16,821	15,711	12,738	10,566	11,510	11,827	11,084	9,737	7,222	7,693	7,059
California State U., Los Angeles	302	7,027	8,296	6,739	6,948	4,788	3,794	3,452	6,499	8,530	9,088	8,088	6,932
Central Michigan U.	303	2,301	4,315	4,965	5,325	5,982	5,108	4,883	5,550	7,121	8,100	7,429	6,919
Clarkson U.	304	9,408	9,531	7,061	5,275	5,462	5,436	6,183	6,538	7,814	8,350	6,876	6,872
SUNY, C. of Environmental Science and Forestry	305	8,907	8,732	8,557	8,382	5,564	7,784	8,109	7,658	6,854	7,632	7,718	6,863
U. Arkansas, Little Rock	306	6,578	7,995	7,894	6,076	4,559	3,736	4,473	4,220	4,942	6,114	6,660	6,438
Louisiana Tech U.	307	9,715	10,351	8,296	7,593	6,577	5,433	5,013	5,438	5,710	6,303	7,000	6,234
Montana Technological U.	308	5,321	4,999	3,293	3,507	3,202	3,420	3,916	5,019	4,691	4,926	4,322	6,133
U. North Carolina, Wilmington	309	13,026	12,933	10,032	7,599	4,480	4,519	4,595	4,834	5,001	6,405	5,984	6,114
U. of the District of Columbia	310	1,946	2,313	2,430	2,168	1,627	1,434	2,451	2,659	2,021	2,526	2,020	5,801
Alabama A&M U.	311	22,154	21,355	21,322	21,290	21,257	21,222	17,863	14,566	11,267	7,968	5,432	5,742
Lincoln U., Jefferson City	312	5,984	7,084	6,306	4,989	5,460	5,492	4,953	4,148	2,498	2,700	3,636	5,621
U. Tulsa	313	6,819	7,547	6,615	6,041	5,487	5,885	6,037	5,816	4,440	3,891	4,555	5,524
U. Hawaii, Hilo	314	10,491	5,243	14,195	10,989	8,522	12,718	9,401	5,461	5,264	4,924	5,274	5,510
U. Missouri, Saint Louis	315	5,886	8,214	7,990	6,821	5,293	3,984	4,343	4,710	5,889	6,759	5,840	5,299
Clark Atlanta U.	316	7,229	7,040	8,447	7,576	7,241	7,439	6,017	5,752	5,611	5,550	5,213	5,282
U. Minnesota, Duluth	316	6,427	8,372	7,560	7,264	5,940	10,025	8,055	6,033	5,520	7,082	6,393	5,282

TABLE 80

## Federally financed higher education R&amp;D expenditures in science and engineering fields, ranked by FY 2021 R&amp;D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Illinois State U.	318	3,449	3,264	2,954	3,203	3,463	2,872	2,878	2,742	2,742	4,390	3,639	5,194
Bowling Green State U.	319	4,963	6,162	6,957	9,287	6,520	4,067	4,221	3,565	3,275	3,878	4,555	5,189
Villanova U.	320	6,367	6,817	5,518	4,218	5,008	4,563	4,334	3,968	3,955	3,956	4,476	5,105
Western U. of Health Sciences	321	885	900	1,268	1,130	1,368	1,099	2,299	2,714	2,562	2,573	4,055	5,020
Texas Southern U.	322	3,638	3,806	4,287	4,741	2,764	2,801	2,825	3,654	2,368	3,238	5,590	4,952
U.S. Army War C.	323	ne	ne	ne	ne	ne	ne	ne	ne	ne	2,146	ne	4,662
Tarleton State U.	324	6,379	6,036	5,086	3,525	3,565	3,801	4,484	4,602	4,288	4,632	4,139	4,620
California State U., Fullerton	325	6,710	7,957	6,477	6,264	6,325	4,640	3,651	3,865	4,610	4,117	4,102	4,535
DePaul U.	326	3,874	4,601	4,800	4,236	4,818	4,436	4,601	5,393	4,496	4,331	5,024	4,466
Duquesne U.	327	5,032	5,103	4,614	3,289	3,980	4,394	4,973	4,959	4,944	4,316	4,579	4,435
Fort Valley State U.	328	4,586	3,452	3,334	3,329	4,249	4,079	4,844	5,068	3,700	4,433	4,806	4,429
U. Tennessee, Chattanooga	329	4,866	2,929	3,199	2,056	1,486	1,949	1,092	1,144	1,490	2,393	3,915	4,416
CUNY, Brooklyn C.	330	5,002	6,724	6,305	5,831	5,709	5,439	5,836	4,968	4,149	4,210	4,385	4,335
California State U., Sacramento	331	5,032	6,145	4,878	6,893	4,769	5,148	4,773	5,876	5,620	5,238	4,892	4,319
California State Polytechnic U., Pomona	332	2,523	2,964	2,635	2,945	2,165	1,826	2,199	3,225	4,181	3,131	5,300	4,267
Arkansas State U., Jonesboro	333	6,169	8,591	9,595	6,268	3,849	4,315	4,826	4,396	4,371	4,867	4,712	4,249
Winston-Salem State U.	334	ne	743	1,280	436	ne	ne	1,069	1,175	1,289	1,468	3,234	4,190
Central State U.	335	2,544	3,475	3,340	2,686	2,000	1,508	1,546	1,491	2,299	2,517	3,097	4,165
California State U., East Bay	336	643	921	536	310	ne	ne	479	ne	ne	ne	1,018	4,158
West Virginia State U.	337	2,759	3,193	3,945	3,292	5,646	5,561	4,126	5,072	5,361	4,526	3,993	4,119
Morehouse C.	338	7,704	8,280	8,856	9,169	6,919	5,836	4,199	3,663	4,365	4,427	4,686	4,102
Middle Tennessee State U.	339	2,428	1,595	4,207	1,897	1,022	1,609	2,564	2,212	2,206	1,572	1,896	4,098
U. of Health Sciences and Pharmacy in St. Louis	340	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	3,767	4,063
Virginia State U.	341	5,080	5,642	6,852	6,108	5,321	4,848	5,017	4,357	4,814	5,486	4,630	3,991
Texas Christian U.	342	2,161	2,483	3,253	3,767	3,690	3,291	2,671	2,523	2,311	2,211	2,840	3,984
St. Edward's U.	343	ne	3,073	2,450	2,640	1,633	4,200	3,600	5,560	1,596	4,893	4,568	3,980
Norfolk State U.	344	5,413	6,345	7,739	5,465	6,381	4,918	6,947	7,101	6,877	7,935	7,121	3,976
Western Washington U.	345	4,137	4,153	3,714	3,287	3,425	3,879	3,972	4,216	3,884	3,842	3,838	3,963
U. Arkansas, Pine Bluff	346	3,947	4,696	4,540	4,550	3,875	3,912	4,233	3,747	3,648	4,299	4,393	3,960
Fisk U.	347	7,686	4,631	4,058	5,429	7,366	7,123	7,512	4,327	2,781	4,473	3,811	3,926
U. New England	348	2,829	3,242	3,359	4,271	4,762	4,856	5,298	5,918	4,976	5,269	5,064	3,864
C. Charleston	349	10,105	4,438	5,259	5,354	4,114	4,863	5,026	5,020	3,653	3,689	2,781	3,839
U. Detroit Mercy	350	629	602	508	ne	317	890	2,565	2,296	4,385	4,908	4,201	3,815
California State U., Monterey Bay	351	3,167	4,713	4,341	4,961	3,862	3,459	3,654	3,574	3,607	3,746	3,889	3,813
Kentucky State U.	352	3,501	3,146	4,919	3,906	4,335	4,590	5,146	5,382	5,618	4,691	4,456	3,716
U. West Florida	353	2,310	1,505	809	646	883	1,061	684	793	1,149	1,210	2,688	3,689

TABLE 80

## Federally financed higher education R&amp;D expenditures in science and engineering fields, ranked by FY 2021 R&amp;D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
U. Colorado Colorado Springs	354	6,453	5,420	2,935	2,471	3,150	3,791	3,717	4,267	3,734	2,752	3,110	3,681
California State U., Fresno	355	3,089	3,589	3,517	2,682	2,852	3,040	2,979	3,162	3,925	2,897	3,004	3,593
Southern U. and A&M C., Agricultural Research and Extension Center	356	ne	4,049	5,926	3,481	3,363	2,514	2,415	2,736	i 3,057	3,057	2,085	3,588
U. New Orleans	357	14,185	12,475	11,481	9,729	8,716	6,787	6,617	5,502	5,246	4,272	3,741	3,566
Wellesley C.	358	3,406	2,461	2,895	3,130	3,579	2,971	5,065	3,725	3,668	3,447	4,024	3,469
Wesleyan U.	359	4,475	5,361	4,612	3,930	3,313	3,582	3,393	3,817	3,990	4,211	3,559	3,452
Barnard C.	360	2,702	3,226	3,122	2,530	2,190	2,166	2,794	2,645	2,291	2,701	2,680	3,422
Southern U. and A&M C., Baton Rouge	361	5,920	6,057	i 6,194	3,998	2,714	3,258	2,778	2,812	2,902	2,680	2,567	3,395
Georgia Southern U.	362	1,882	1,520	1,341	1,990	3,123	2,923	2,540	2,826	1,758	1,765	1,759	3,298
California State U., San Bernardino	363	2,119	i 6,212	5,914	5,633	6,004	5,628	5,920	5,423	5,436	5,991	3,574	3,263
South Carolina State U.	364	6,333	i 6,797	i 7,261	2,958	i 2,231	i 1,503	4,376	i 13,254	13,846	i 3,010	3,123	i 3,236
California State U., Bakersfield	365	637	727	641	1,721	1,140	1,854	1,662	2,416	3,243	4,245	4,244	3,167
Western Illinois U.	366	658	742	3,855	1,183	735	350	ne	1,198	1,535	1,486	1,781	3,163
U. Washington, Tacoma	367	47	108	130	0	0	1,386	1,595	727	1,523	2,451	2,899	3,130
Fordham U.	368	3,426	3,086	3,193	3,748	3,239	2,789	4,760	4,750	4,210	3,171	2,834	3,113
Toyota Technological Institute, Chicago	369	ne	496	ne	ne	ne	1,392	1,410	1,581	1,759	1,934	3,038	3,090
Langston U.	370	3,313	3,778	3,957	4,153	5,816	5,621	8,941	7,960	i 7,146	i 6,331	8,584	2,899
Rutgers, State U. New Jersey, Camden	371	1,765	1,259	1,248	1,511	1,728	1,984	2,637	2,322	1,495	1,096	1,952	2,841
Montclair State U.	372	1,113	2,552	3,265	2,944	1,900	2,116	2,301	1,974	2,942	3,050	2,766	2,816
Southern Illinois U., Edwardsville	373	4,140	3,946	2,808	2,896	2,066	2,111	3,077	3,472	2,907	2,951	2,564	2,800
Clark U.	374	3,243	3,776	2,970	2,649	2,643	2,297	1,930	2,465	2,949	3,489	3,350	2,754
Murray State U.	375	2,074	2,471	1,904	816	601	793	555	1,200	1,587	2,607	1,911	2,641
Middlebury C.	376	2,245	2,289	2,513	1,760	1,320	1,535	1,736	2,002	1,701	1,558	1,546	2,639
CUNY, Lehman C.	377	2,348	i 2,700	2,208	1,874	2,247	2,371	3,625	3,713	4,177	2,181	2,614	2,606
Dakota State U.	378	ne	402	3,555	831	908	765	1,448	1,989	3,273	3,006	3,957	2,603
National Defense U.	379	ne	ne	ne	4,906	6,712	4,832	5,720	5,723	2,219	2,155	2,583	2,586
Kennesaw State U.	380	1,105	983	1,127	i 1,271	1,397	713	1,037	1,182	1,306	1,738	1,696	2,562
Long Island U.	381	545	i 590	i 577	i 567	ne	ne	346	1,183	1,416	1,647	1,277	2,538
MGH Institute of Health Professions	382	ne	408	ne	ne	ne	3,766	2,228	1,839	2,957	3,494	3,014	2,500
U. Central del Caribe	383	6,504	6,613	6,304	5,946	6,407	6,147	6,290	4,866	2,937	2,705	2,743	2,492
Sam Houston State U.	384	4,887	2,098	2,422	1,729	1,733	1,488	1,830	1,872	2,200	2,316	2,444	2,472
Haverford C.	385	2,698	1,851	1,478	1,547	1,309	1,476	972	1,031	1,660	2,339	2,680	2,455
Florida Gulf Coast U.	386	2,661	2,740	1,902	1,553	1,153	1,139	1,377	1,105	764	944	2,639	2,410
U. Michigan, Dearborn	387	2,801	4,291	2,881	3,103	2,882	1,844	2,035	1,860	1,341	1,722	2,244	2,366
Alabama State U.	388	13,340	12,340	13,607	1,927	2,236	2,303	2,372	2,253	2,434	2,577	2,582	2,338

TABLE 80

## Federally financed higher education R&amp;D expenditures in science and engineering fields, ranked by FY 2021 R&amp;D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Western Kentucky U.	389	6,606	6,079	5,639	4,161	2,916	2,983	3,346	3,285	2,860	3,128	2,977	2,306
Oklahoma State U., Center for Health Sciences	390	817	377	83	61	31	321	697	984	959	944	2,602	2,304
Northwest Indian C.	391	1,943	1,993	2,044	2,216	1,705	1,154	ne	ne	1,649	2,201	2,181	2,289
Occidental C.	392	644	898	1,079	1,105	1,365	853	1,260	701	888	1,614	1,567	2,284
CUNY, Graduate Center	393	2,663	1,652	1,849	2,180	2,127	1,707	1,004	830	2,313	2,785	2,206	2,251
Smith C.	394	2,755	3,101	2,626	2,824	3,042	3,575	2,563	3,352	3,288	2,887	2,483	2,249
CUNY, C. Staten Island	395	949	1,470	1,242	1,302	1,241	1,021	1,694	1,524	1,737	2,120	2,262	2,234
Sonoma State U.	396	690	559	ne	1,800	1,581	964	531	ne	ne	ne	936	2,212
James Madison U.	397	5,563	5,218	6,476	4,604	2,997	2,418	2,189	2,172	1,640	2,075	1,973	2,189
Purdue U., Northwest	398	na	na	na	na	na	na	na	2,218	1,927	1,513	1,969	2,165
Northern Kentucky U.	399	1,476	1,573	1,474	1,239	1,396	1,246	1,061	1,047	780	1,223	1,415	2,155
Gallaudet U.	400	4,584	3,876	3,712	3,916	2,586	2,064	2,133	2,273	2,142	1,105	899	2,130
SUNY, C. of Optometry	401	2,829	3,336	3,162	2,757	2,567	2,490	2,487	2,073	1,944	1,823	1,688	2,105
Ball State U.	402	1,712	1,701	2,171	1,267	1,617	1,828	2,813	2,083	2,749	2,607	2,290	2,099
Tougaloo C.	403	2,978	2,542	1,865	1,857	1,894	1,868	1,747	2,252	2,860	2,293	2,102	2,092
Bates C.	404	971	1,485	1,555	1,390	1,114	2,004	1,156	1,053	1,121	1,607	1,885	2,079
U. New Haven	405	ne	199	235	728	344	183	2,157	474	3,853	2,786	1,440	2,069
Eastern Michigan U.	406	3,375	3,802	3,081	2,194	932	1,274	1,200	1,005	1,137	1,971	2,520	2,029
U. Southern Maine	407	2,498	3,592	5,415	4,515	3,071	2,460	1,848	2,252	2,237	2,275	2,128	2,020
Pennsylvania State U., Behrend	408	887	1,029	1,232	1,341	1,596	1,474	2,397	1,658	1,025	1,424	543	2,014
U. San Diego	409	1,332	1,139	1,903	2,002	2,435	1,799	2,121	2,299	2,362	2,494	2,048	1,997
U. Northern Iowa	410	499	1,597	1,982	2,146	2,007	1,847	2,267	2,153	1,697	2,343	1,792	1,978
Humboldt State U.	411	2,965	3,292	3,575	2,819	2,498	3,280	4,455	3,796	3,024	2,103	2,399	1,975
New York Institute of Technology	412	250	369	950	2,097	3,049	2,070	1,536	983	1,439	3,072	1,485	1,970
Hope C.	413	2,523	2,414	1,912	1,993	1,834	1,436	1,251	1,157	1,088	1,349	1,126	1,957
St. John's U., New York	414	1,161	1,181	1,095	868	879	942	868	961	1,528	1,666	1,805	1,931
U. North Florida	415	4,516	5,048	3,760	1,424	1,045	1,184	1,333	1,287	1,325	1,243	1,167	1,917
West Texas A&M U.	416	2,100	1,340	1,785	1,314	1,324	1,635	1,523	1,108	1,104	1,278	1,253	1,915
U. Washington, Bothell	417	435	363	323	0	711	1,222	546	747	917	1,800	1,260	1,903
Albany C. of Pharmacy and Health Sciences	418	1,380	1,634	1,182	1,333	1,643	1,065	380	566	1,092	1,690	1,938	1,900
Saginaw Valley State U.	419	77	525	330	203	ne	223	228	595	1,215	2,332	1,809	1,899
Spelman C.	420	2,740	1,833	1,874	1,366	1,185	1,035	1,291	1,227	1,673	2,004	2,136	1,886
U. South Carolina, Aiken	421	122	592	ne	937	759	689	1,155	2,697	2,437	2,063	2,328	1,880
U. Wisconsin-Superior	422	5,197	5,638	5,302	ne	1,941	ne	ne	ne	1,916	1,527	1,382	1,843
Savannah State U.	423	1,774	2,518	1,874	2,514	2,127	1,796	2,245	1,388	1,778	1,709	1,804	1,804
Central Washington U.	424	4,038	2,238	1,840	1,242	1,108	1,575	1,580	2,287	1,840	2,159	1,701	1,778



TABLE 80

## Federally financed higher education R&amp;D expenditures in science and engineering fields, ranked by FY 2021 R&amp;D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
U. Wisconsin-Stevens Point	425	4,455	3,752	i 3,049	2,131	1,740	i 1,349	i 957	i 1,266	i 1,575	i 1,884	i 2,193	1,776
U. North Carolina, Asheville	426	1,367	1,519	1,565	1,505	1,174	1,452	2,202	1,714	1,309	1,262	1,848	1,775
Bowdoin C.	427	1,806	1,876	3,300	3,240	2,330	2,154	2,452	1,811	2,026	1,777	1,862	1,767
Santa Clara U.	428	3,494	1,992	1,953	1,641	1,992	1,224	1,634	1,406	1,520	1,266	1,487	1,756
Towson U.	429	1,806	2,630	1,771	2,015	1,870	1,325	1,449	1,453	2,133	2,141	1,999	1,743
Hawaii Pacific U.	430	ne	525	858	850	1,116	789	2,071	1,921	1,905	1,809	1,699	1,741
Skidmore C.	431	1,872	1,562	1,334	1,448	1,170	969	732	1,179	1,878	2,261	1,827	1,739
Reed C.	432	796	772	678	897	1,092	1,638	1,690	415	1,065	1,423	1,635	1,735
Palmer C. of Chiropractic, Davenport	433	3,009	3,344	2,906	1,991	1,775	i 1,558	1,485	1,189	1,100	1,100	1,400	1,733
Fort Lewis C.	434	325	511	ne	ne	ne	ne	ne	ne	ne	1,284	1,228	1,730
Youngstown State U.	435	2,067	3,304	2,159	1,825	1,867	2,346	1,083	3,257	3,634	2,878	3,190	1,717
Morehead State U.	436	1,291	1,656	1,591	1,798	961	1,064	1,668	2,051	1,672	1,471	1,657	1,709
California State U., Chico	437	1,466	1,209	1,332	1,668	1,085	743	851	577	1,051	1,359	1,943	1,706
Bucknell U.	438	2,626	2,600	1,514	1,581	1,724	1,489	1,368	i 1,317	i 1,266	1,403	1,730	i 1,696
CUNY, Baruch C.	439	1,010	1,025	1,209	547	548	838	1,214	1,027	1,154	1,359	1,470	1,682
Western Carolina U.	440	1,273	691	931	647	669	740	873	963	992	1,650	1,615	1,625
New England C. of Optometry	441	726	1,236	1,685	1,588	533	419	618	ne	837	928	785	1,623
U. Texas of the Permian Basin	442	627	692	786	716	489	595	510	328	50	ne	736	1,610
Pennsylvania State U., Harrisburg	443	963	1,288	1,161	377	194	565	270	215	292	80	437	1,597
Texas Tech U., Health Sciences Center, El Paso	444	ne	ne	ne	ne	5,316	2,689	2,953	2,329	2,489	2,238	1,675	1,566
Mount Holyoke C.	445	1,346	1,883	1,790	1,775	2,374	2,314	2,848	3,168	2,210	2,074	1,442	1,539
California State U., Dominguez Hills	446	2,658	2,671	2,689	2,738	1,384	i 1,035	1,124	753	1,072	1,135	1,360	1,528
Pacific U.	446	565	75	198	1,669	539	350	708	2,830	1,559	2,731	1,719	1,528
Pace U.	448	627	952	1,469	1,054	1,155	1,329	1,170	862	610	1,537	2,120	1,522
U. Richmond	448	2,050	1,705	2,097	1,747	2,004	1,738	1,924	1,870	1,628	1,545	1,588	1,522
Yeshiva U.	450	163,399	197,032	201,397	193,831	186,885	180,791	30,266	816	683	380	772	1,509
Colorado State U., Pueblo	451	364	354	ne	ne	ne	ne	ne	ne	ne	1,282	1,161	1,508
Midwestern U.	452	285	438	427	369	517	654	1,060	1,184	1,278	1,045	936	1,506
Carleton C.	453	1,643	2,132	2,212	3,326	3,046	1,077	832	727	933	1,891	1,236	1,493
Christopher Newport U.	454	1,035	1,587	1,230	1,083	1,263	938	779	859	1,068	1,285	1,347	1,487
Rhode Island C.	455	ne	1,195	1,140	993	851	726	1,107	860	669	726	1,102	1,470
U. Louisiana, Monroe	456	1,470	1,971	1,752	976	1,705	1,479	2,016	1,838	1,789	1,949	2,025	1,465
Harvey Mudd C.	457	2,049	2,594	2,038	2,004	1,457	1,633	2,320	1,521	1,762	1,619	1,748	1,443
Colgate U.	458	1,519	1,058	1,497	1,320	1,153	1,109	1,217	1,096	1,389	1,202	858	1,440
Indiana U. Pennsylvania	459	489	616	669	101	169	ne	321	1,303	891	1,773	1,221	1,432
Grand Valley State U.	460	1,078	1,610	i 2,142	i 2,675	2,151	2,033	1,479	1,365	1,719	1,663	1,783	1,407

TABLE 80

## Federally financed higher education R&amp;D expenditures in science and engineering fields, ranked by FY 2021 R&amp;D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Amherst C.	461	966	1,775	1,810	i 1,846	1,543	1,835	1,207	1,228	1,630	2,118	1,775	1,375
Touro U.	461	999	1,196	1,390	1,351	1,374	1,332	1,199	1,196	1,410	1,540	1,546	1,375
Northeastern Illinois U.	463	288	311	ne	ne	588	ne	ne	805	1,877	2,078	1,378	1,370
Franklin and Marshall C.	464	1,857	1,397	1,116	879	867	991	945	1,711	1,760	1,580	1,202	1,363
U. Northern Colorado	465	1,606	1,513	1,117	956	1,867	1,230	1,674	1,752	1,745	1,518	1,233	1,362
California State U., Stanislaus	466	ne	1,037	i 1,070	650	341	174	221	478	734	964	1,284	1,354
Trinity C., Hartford	467	1,026	1,217	1,432	1,040	1,313	889	893	2,084	794	1,077	1,019	1,348
Troy U.	468	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,536	1,341
Loyola Marymount U.	469	894	2,759	1,139	1,154	906	809	638	705	616	982	997	1,339
Swarthmore C.	470	901	1,005	1,115	1,203	1,261	1,352	1,393	1,402	1,343	1,367	1,011	1,329
U. Central Oklahoma	470	1,059	1,146	750	765	993	1,422	1,081	850	1,048	1,277	1,266	i 1,329
U. of St. Thomas (MN)	472	656	720	557	570	352	ne	195	212	320	313	450	1,321
U. of the Sciences Philadelphia	473	965	1,338	1,287	1,357	937	851	1,153	1,102	1,095	1,318	1,126	1,320
Appalachian State U.	474	1,662	2,398	2,264	1,722	2,186	1,795	1,896	2,629	1,840	1,298	1,375	1,313
U. Virginia's C. Wise	475	76	38	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,307
U. Nebraska, Kearney	476	289	1,018	714	838	652	513	870	975	1,014	1,227	1,259	1,286
Elizabeth City State U.	477	5,352	10,176	3,673	3,767	1,956	1,644	1,619	1,305	960	ne	992	1,266
Citadel Military C. South Carolina	478	ne	157	ne	ne	ne	ne	ne	ne	ne	ne	470	1,258
William Paterson U.	479	105	140	ne	ne	ne	ne	299	178	195	626	1,072	1,240
Texas A&M International U.	480	1,481	1,191	985	868	977	658	911	1,722	1,980	1,814	941	1,203
U. Puerto Rico, Cayey	481	601	871	1,515	1,168	1,143	959	1,105	704	632	963	1,210	1,202
SUNY, Geneseo	482	679	1,278	1,499	609	455	635	908	992	998	1,184	950	1,187
Keck Graduate Institute	483	ne	1,744	1,671	1,227	1,302	937	949	i 969	i 987	i 1,059	i 1,093	i 1,178
Lamar U.	484	4,184	3,959	3,057	1,604	1,118	297	218	917	1,280	1,604	1,157	1,157
Johnson C. Smith U.	485	ne	ne	ne	ne	ne	ne	483	603	994	913	1,087	1,153
Williams C.	486	2,330	2,117	2,029	1,498	1,029	1,700	1,614	1,703	1,458	1,131	1,086	i 1,152
U. Puerto Rico, Humacao	487	1,950	i 1,976	1,949	1,452	1,102	669	ne	ne	882	828	1,279	1,137
U. Central Arkansas	488	1,560	1,300	1,314	1,033	1,145	1,222	931	1,183	1,113	1,347	1,374	1,135
Davidson C.	489	1,153	1,053	651	1,574	1,166	1,703	810	1,099	738	895	1,254	1,112
U. of the Pacific	490	1,667	1,414	749	823	985	1,019	1,879	1,403	2,057	2,144	1,362	1,106
New Mexico Highlands U.	491	963	986	704	741	969	ne	1,086	1,015	741	ne	1,034	1,085
Texas A&M U.-Commerce	491	1,078	941	1,182	1,319	1,067	1,121	582	604	956	780	1,004	1,085
Trinity U.	493	964	1,046	1,222	1,989	1,535	1,151	956	977	1,116	878	1,195	1,078
U. of the Incarnate Word	494	ne	111	ne	ne	ne	403	ne	ne	868	1,075	869	1,076
U. Illinois, Springfield	495	332	373	554	503	405	307	527	1,169	1,108	966	971	1,056
Black Hills State U.	496	1,355	1,097	1,118	1,123	662	635	1,127	812	813	860	1,234	1,048

TABLE 80

## Federally financed higher education R&amp;D expenditures in science and engineering fields, ranked by FY 2021 R&amp;D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
U. Alaska, Southeast	497	1,150	941	887	1,001	1,158	1,341	1,502	1,480	1,636	1,235	1,092	1,046
U. Wisconsin-Oshkosh	498	769	1,100	1,140	971	1,005	1,040	ne	1,068	1,061	1,054	1,048	1,039
Furman U.	499	1,245	984	1,044	1,108	857	1,071	1,068	1,292	1,110	1,106	847	1,028
C. New Jersey	500	447	188	ne	ne	ne	ne	ne	874	778	ne	888	1,016
Texas Woman's U.	501	822	942	1,058	588	423	299	573	407	326	677	882	1,009
Clafin U.	502	3,226	5,103	5,090	2,556	1,511	1,158	1,726	1,344	1,491	1,735	1,907	1,005
Augustana U.	503	889	1,169	1,007	809	737	647	ne	890	981	784	ne	1,003
Seton Hall U.	503	2,206	1,259	679	691	688	736	825	850	724	810	539	1,003
Bowie State U.	505	ne	1,910	1,739	1,422	1,761	1,497	1,507	987	1,100	876	1,368	980
Fayetteville State U.	506	2,188	1,810	1,421	1,690	2,185	1,792	2,740	2,202	2,251	1,974	799	979
SUNY, Buffalo State	507	1,247	1,958	2,348	1,336	1,076	846	849	860	1,040	1,203	1,240	977
Union C., Schenectady	508	1,427	959	867	1,863	1,385	1,080	1,680	554	872	964	462	976
Roger Williams U.	509	1,056	1,391	1,362	1,206	1,454	1,124	1,215	1,183	854	828	844	972
Hofstra U.	510	920	948	1,117	666	997	1,836	1,762	1,307	1,060	915	606	960
New School	510	1,376	1,512	1,830	2,370	1,892	2,106	2,366	2,126	1,665	1,790	986	960
California State U., Channel Islands	512	ne	311	ne	316	520	825	244	122	269	500	513	953
Coastal Carolina U.	513	1,533	1,439	1,474	1,691	1,281	1,041	858	1,028	1,031	1,294	1,211	944
Alfred U.	514	1,645	1,964	1,625	1,447	1,310	1,305	1,318	883	1,403	1,580	947	939
Pomona C.	515	1,038	1,769	1,528	2,144	1,789	1,074	1,579	1,038	867	861	1,123	930
U. Texas, Tyler	516	1,689	977	2,084	1,325	280	309	352	613	718	813	774	929
U. Ana G. Mendez, Gurabo	517	212	377	446	362	1,008	346	357	423	418	951	946	926
Vassar C.	518	1,236	1,552	993	1,136	999	954	1,417	1,579	4,185	909	1,055	918
Calvin U.	519	2,031	556	664	731	1,208	1,034	795	880	1,332	900	864	917
U. Wisconsin-Eau Claire	520	1,271	826	786	646	393	ne	660	925	690	742	647	909
U. Wisconsin-La Crosse	521	2,150	2,013	1,876	1,240	1,095	1,006	1,250	1,158	1,171	775	809	895
Keene State C.	522	ne	846	664	482	829	820	ne	754	ne	1,022	1,043	894
CUNY, York C.	523	ne	1,507	812	693	ne	288	ne	ne	ne	1,477	1,480	889
CUNY, New York City C. of Technology	524	59	145	ne	ne	ne	ne	ne	ne	1,978	1,795	1,359	884
U. Houston-Clear Lake	525	301	818	730	875	739	541	756	753	894	718	632	865
U. Baltimore	526	1,518	2,328	2,391	2,063	2,513	2,390	3,479	2,922	1,642	1,309	1,024	848
U. Wisconsin-Green Bay	527	724	631	592	552	512	470	833	604	526	792	859	845
Dillard U.	528	2,711	5,019	7,325	7,692	6,889	8,851	7,585	5,592	5,503	1,390	1,164	841
U. Hawaii, Maui C.	528	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	841
American Samoa Community C.	530	ne	ne	ne	ne	ne	1,337	793	ne	ne	860	ne	815
Stephen F. Austin State U.	531	4,704	1,385	953	1,055	1,118	1,565	1,011	835	785	1,297	884	814
Doane U.	532	ne	1,008	546	ne	846	390	ne	ne	725	728	752	812

TABLE 80

## Federally financed higher education R&amp;D expenditures in science and engineering fields, ranked by FY 2021 R&amp;D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Naval War C.	533	ne	ne	0	0	0	0	0	3,797	4,384	679	724	794
Fielding Graduate U.	534	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	791
SUNY, C. Plattsburgh	535	1,187	726	454	ne	459	717	545	455	1,254	1,142	930	786
Bryn Mawr C.	536	932	1,469	1,619	1,853	1,346	1,713	1,641	1,432	1,265	1,052	833	774
Eastern Washington U.	537	46	559	725	1,226	885	955	1,244	1,181	997	811	1,092	772
CUNY, system office	538	ne	ne	819	397	352	828	774	420	1,977	1,347	869	768
U. Hartford	539	820	1,571	1,450	1,165	1,080	992	1,172	1,178	62	1,019	842	766
Pittsburg State U.	540	999	1,280	989	791	1,006	448	270	316	195	339	477	759
Hobart and William Smith Colleges	541	1,030	1,206	914	1,786	666	378	ne	528	ne	1,047	1,072	758
Abilene Christian U.	542	537	427	ne	ne	ne	ne	ne	ne	ne	ne	ne	757
Milwaukee School of Engineering	543	1,177	1,181	1,207	1,245	1,500	1,335	1,164	775	680	764	613	751
CUNY, John Jay C. of Criminal Justice	544	3,079	3,410	2,786	2,839	2,164	2,342	2,467	1,833	2,949	1,154	2,472	750
Northwestern State U. Louisiana	545	635	683	609	590	494	ne	490	458	490	579	598	738
Mercyhurst U.	546	703	174	145	134	97	77	95	405	ne	656	678	732
Biola U.	547	ne	ne	ne	ne	ne	ne	555	567	588	631	652	703
Lewis and Clark C.	548	818	684	718	1,490	1,378	872	636	723	834	931	1,268	702
Ithaca C.	549	617	627	774	788	763	570	ne	ne	ne	ne	981	685
U. Oklahoma, Tulsa	550	ne	ne	ne	ne	ne	882	1,046	883	1,531	1,415	1,559	681
Winthrop U.	551	ne	871	935	651	594	676	490	391	442	634	697	679
Saint Joseph's U.	552	960	683	565	292	147	169	160	129	163	261	775	652
Claremont McKenna C.	553	1,102	1,061	1,082	1,081	1,080	ne	604	754	555	730	741	637
Franklin W. Olin C. of Engineering	554	ne	666	1,090	946	1,050	1,103	782	473	425	111	255	636
Suffolk U.	555	ne	299	198	351	313	217	411	573	ne	ne	842	634
Claremont Graduate U.	556	4,888	1,050	6,200	7,030	5,517	4,696	3,876	3,056	2,236	1,414	803	626
Colby C.	557	1,015	1,002	1,148	989	943	1,038	1,061	1,038	1,188	1,058	787	623
Macalester C.	558	1,044	1,455	1,075	871	878	708	771	970	553	805	647	617
Northland C.	559	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	615
Southern Connecticut State U.	560	0	899	605	446	1,620	1,205	981	1,004	766	718	885	613
Austin Peay State U.	561	ne	729	481	364	189	334	301	347	599	295	475	597
Canisius C.	561	154	181	ne	ne	ne	ne	ne	1,330	1,044	943	ne	597
Dordt U.	563	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	594
Southeastern Louisiana U.	564	942	735	794	815	692	1,212	757	1,027	830	586	884	582
Minnesota State U., Mankato	565	2,001	812	667	297	296	357	1,189	522	639	708	525	575
Providence C.	566	857	726	ne	827	ne	1,162	981	783	960	857	913	574
Edward Via C. of Osteopathic Medicine	567	ne	707	502	517	250	89	88	94	195	749	566	537
Eastern Kentucky U.	568	2,371	2,736	2,149	1,630	1,251	919	1,000	758	619	598	524	530

TABLE 80

## Federally financed higher education R&amp;D expenditures in science and engineering fields, ranked by FY 2021 R&amp;D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
National U. of Natural Medicine	569	ne	247	ne	ne	ne	ne	ne	427	ne	760	912	523
Central Connecticut State U.	570	351	662	666	601	433	193	131	208	ne	328	518	508
Oberlin C.	571	1,359	1,183	1,330	1,204	1,204	1,364	962	1,558	1,096	1,576	743	505
Sul Ross State U.	571	1,595	1,672	1,073	735	546	333	272	440	553	339	481	505 i
U. Houston-Downtown	573	905	1,178	1,824	464	496	773	620	828	703	130	274	504
SUNY, C. Brockport	574	521	677	989	755	564	535	639	747	672	638	781	500
Lafayette C.	575	1,223	1,421	1,149	1,145	853	1,052	858	1,303	968	838	745	499
Stockton U.	576	ne	405	160	ne	380	198	221	ne	246	549	663	486
West Chester U. Pennsylvania	576	3,531 i	5,691	788	513	392	500	453	618	425	704	575	486
Willamette U.	576	441	419	911	646	672	730	757	739	807	435	222	486
Fort Hays State U.	579	ne	ne	ne	ne	ne	ne	ne	ne	ne	690	761	480
Des Moines U.	580	62	91	ne	ne	224	ne	363	842	897	805	425	459 i
California State U., Maritime Academy	581	ne	1,200	1,748	1,257	122	23	71	225	550	617	621	450
Connecticut C.	582	954	1,005	1,130	833	514	756	817	777	505	752	483	439
Grambling State U.	583	993	1,515	1,298	1,077	1,065	915	974	846	778	558	359	436
U. North Georgia	584	ne	ne	ne	ne	ne	ne	ne	257	198	222	183	435
Florida Polytechnic U.	585	na	na	na	na	na	203	ne	ne	ne	338	252	424
West Virginia School of Osteopathic Medicine	586	22	17	ne	ne	ne	ne	ne	ne	ne	ne	414	418
Salisbury U.	587	422	586	360	674	1,155	967	841	806	369	658	204	416
SUNY, Oswego	588	644	871	ne	673	ne	ne	ne	669	661	628	492	415
Pepperdine U.	589	199	172	428	465	586	724	966	343	289	399	261	410
Manhattan C.	590	166	245	ne	ne	ne	ne	ne	ne	ne	245	398	397
Purdue U., Fort Wayne	591	1,231	1,490	1,132	1,121	806	956	742	688	766	476	561	379
U. California, Office of the President	591	121	483	1,048	599	248	181	295	288	343	319	217	379
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	593	ne	106	179	340	523	264	643	206	201	191	342	376
Drake U.	594	361	229	ne	560	ne	ne	830	486	262	220	ne	371
Albany State U.	595	396	893	1,988	1,532	1,271	1,005	965	842	649	903	506	370
Northern Michigan U.	596	287	124	ne	ne	ne	ne	228	96	151	258	418	366
Marshall B. Ketchum U.	597	ne	ne	ne	ne	48	224	375	368 i	354 i	336 i	323 i	343 i
U. North Carolina, general administration	598	ne	ne	ne	ne	ne	337	174	161	98	213	562	342
Marymount U.	599	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	337
U. Wisconsin-Platteville	600	46	50 i	ne	ne	287 i	266 i	ne	299 i	ne	294 i	292 i	321 i
Philadelphia C. of Osteopathic Medicine	601	812	850	694	277	104	192	150	260	260	346	422	318
Grinnell C.	602	1,155	287	648	372	414	546	340	582	588	326	617	309
Heidelberg U.	603	ne	266 i	ne	349	199	272	294	428	163	164	188	308

TABLE 80

## Federally financed higher education R&amp;D expenditures in science and engineering fields, ranked by FY 2021 R&amp;D expenditures: FYs 2010–21

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021			
C. Wooster	604	249	512	183	ne	404	386	i	ne	736	744	456	283	300	i	
Indiana State U.	605	990	1,352	1,268	858	1,005	925		954	510	629	821	635	292		
Albion C.	606	ne	113	ne	ne	ne	ne		ne	210	114	180	272	289	i	
St. Cloud State U.	607	501	380	215	420	797	1,299		561	554	494	515	141	273		
U. Massachusetts, central office	608	ne	ne	485	131	185	86		201	402	408	333	410	272		
St. Olaf C.	609	1,235	843	1,220	955	760	668		849	769	287	240	227	265		
Indiana U., South Bend	610	282	494	375	638	575	408		344	239	100	ne	ne	262		
Seattle U.	610	467	i	622	530	ne	848	890	809	748	873	574	487	262		
Hamilton C.	612	812	1,085	1,070	848	413	202		173	48	78	88	61	259		
Andrews U.	613	280	77	ne	ne	ne	ne		ne	ne	ne	278	263	256		
U. San Francisco	614	335	313	1,842	858	738	503		280	405	310	198	148	255		
Lawrence Technological U.	615	2,809	2,425	1,106	985	739	971		326	569	457	294	296	252		
Oregon Institute of Technology	615	ne	193	ne	ne	ne	63	1,268	694	i	217	437	i	326	252	i
U. of Mary Washington	617	ne	563	i	79	ne	ne		187	ne	ne	46	128	207	246	
Kean U.	618	ne	550	1,191	347	ne	244		8	ne	ne	ne	522	242		
U. Wisconsin-River Falls	619	134	174	i	ne	ne	ne		ne	501	445	ne	488	212		
Azusa Pacific U.	620	ne	970	609	i	ne	ne	323	606	334	199	125	128	206		
Lipscomb U.	621	ne	ne	ne	ne	ne	ne		ne	ne	ne	ne	188	i	203	
Colorado C.	622	412	362	307	269	511	570		320	585	259	202	91	197		
Framingham State U.	623	ne	ne	ne	ne	ne	ne		ne	4	17	ne	179	188	i	
Alaska Pacific U.	624	283	349	ne	ne	ne	532		322	252	217	304	121	187		
Arcadia U.	625	460	726	537	ne	ne	ne		ne	ne	ne	ne	ne	178		
Monmouth U.	626	2,190	1,873	714	ne	635	ne		173	ne	ne	120	110	174		
Wheaton C., Wheaton	627	ne	585	114	ne	168	162		ne	70	50	301	324	148		
Fairfield U.	628	372	401	379	i	354	810	339	435	982	1,172	563	365	147		
U. Minnesota, Morris	629	243	276	ne	257	262	306		428	294	ne	195	213	140		
Elon U.	630	ne	40	111	161	143	92		194	213	285	264	106	138		
Liberty U.	631	ne	ne	ne	ne	ne	ne		ne	ne	ne	535	486	120		
Eastern Connecticut State U.	632	ne	0	ne	ne	6	17		27	19	36	181	177	108		
Sacred Heart U.	633	ne	ne	ne	ne	ne	ne		ne	ne	ne	ne	ne	103		
U. Michigan, Flint	634	32	181	ne	ne	ne	ne		ne	219	159	122	220	72		
Rhode Island School of Design	635	ne	289	ne	ne	ne	252		274	i	269	i	212	i	215	i
Roseman U. of Health Sciences	636	ne	0	ne	ne	131	0		0	0	18	37	i	56	53	
C. of Saint Benedict	637	ne	0	ne	72	71	53		38	44	47	45	i	43	i	
Jacksonville State U.	638	133	265	ne	ne	ne	13		307	209	i	199	67	30	37	
Niagara U.	639	162	150	118	28	0	4		0	0	125	114	18	21		

TABLE 80

**Federally financed higher education R&D expenditures in science and engineering fields, ranked by FY 2021 R&D expenditures: FYs 2010–21**

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Kettering U.	640	4,477	3,452	1,985	1,084	908	666	817	1,395	883	321	423	17
All other surveyed institutions	-	1,090,493	1,235,942	1,196,834	1,111,487	888,563	863,931	893,233	932,087	994,356	393,498	353,529	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

<sup>a</sup> Johns Hopkins University includes the Applied Physics Laboratory, with \$1,881,568 thousand in federally financed R&D expenditures in science and engineering fields in FY 2021.

<sup>b</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

<sup>c</sup> The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

<sup>d</sup> The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

<sup>e</sup> The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

**Note(s):**

Institutions reporting zero expenditures in ranked total for FY 2021 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 6](#).

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 81

**Higher education R&D expenditures in science and engineering fields, by state: FYs 2010–21**

(Dollars in thousands)

State	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
United States	58,387,551	61,988,017	62,198,981	63,354,270	63,766,035	64,935,455	67,634,588	70,846,590	74,381,325	78,633,170	81,277,287	84,610,017
Alabama	829,363	878,622	804,713	807,180	784,855	868,160	912,302	942,186	986,864	1,055,431	1,110,640	1,187,925
Alaska	141,190	140,736	135,751	133,170	168,948	157,565	163,092	171,166	161,208	165,930	174,978	193,723
Arizona	901,697	951,223	987,123	1,013,898	987,348	1,031,313	1,072,623	1,139,852	1,284,772	1,346,997	1,401,055	1,404,585
Arkansas	255,537	270,576	275,503	278,640	268,551	278,259	284,160	288,722	311,100	331,290	343,986	362,908
California	7,579,752	7,927,260	8,102,898	8,056,392	8,121,682	8,330,954	8,558,740	8,886,352	9,768,093	10,105,065	10,513,407	10,785,540
Colorado	1,128,509	1,240,906	1,249,413	1,200,521	1,184,397	1,226,205	1,326,252	1,402,890	1,486,702	1,539,154	1,569,639	1,670,248
Connecticut	866,600	922,694	924,773	1,041,810	1,029,748	1,062,809	1,143,663	1,210,466	1,251,620	1,352,731	1,370,202	1,463,045
Delaware	161,927	178,496	176,743	187,730	187,295	183,868	189,768	195,591	198,476	223,447	234,144	243,849
District of Columbia	430,944	446,448	455,063	463,042	487,260	488,789	483,863	524,970	547,181	575,707	590,359	621,093
Florida	1,778,300	1,896,576	1,930,189	1,921,895	2,019,460	2,080,940	2,217,780	2,348,688	2,285,505	2,366,988	2,385,208	2,462,671
Georgia	1,611,447	1,657,919	1,711,596	1,789,112	1,850,346	1,918,019	2,029,544	2,177,129	2,283,980	2,460,830	2,574,883	2,756,632
Hawaii	314,652	325,915	328,168	338,992	330,584	328,698	314,431	297,425	294,453	298,641	295,641	291,663
Idaho	122,754	139,392	142,976	139,444	137,825	142,954	150,043	156,152	161,196	157,439	162,335	159,549
Illinois	2,146,061	2,264,226	2,269,727	2,407,183	2,238,266	2,284,059	2,265,419	2,369,632	2,438,295	2,577,826	2,637,429	2,794,799
Indiana	1,048,218	1,141,830	1,150,327	1,200,697	1,169,076	1,191,841	1,235,217	1,294,203	1,331,646	1,511,310	1,592,757	1,569,076
Iowa	689,831	705,684	695,465	693,052	743,656	726,233	774,017	786,287	838,401	837,341	829,217	870,426
Kansas	460,629	466,851	479,721	499,788	485,562	489,955	478,843	502,399	540,529	601,894	635,019	673,119
Kentucky	538,189	555,579	546,893	515,406	505,815	499,960	526,377	561,729	576,050	589,110	614,163	631,075
Louisiana	657,569	667,523	653,885	632,537	627,547	609,102	630,012	633,514	687,619	728,488	737,195	757,416
Maine	118,832	129,236	118,589	103,373	120,628	98,607	97,680	120,471	126,229	141,775	143,241	154,111
Maryland	3,094,055	3,366,663	3,308,014	3,376,440	3,514,719	3,704,962	3,744,025	3,967,074	4,112,572	4,555,760	4,660,788	4,829,448
Massachusetts	2,628,804	2,806,845	3,010,696	3,246,125	3,218,358	3,406,239	3,521,012	3,631,981	3,717,256	3,986,389	4,059,512	4,270,733
Michigan	1,903,476	2,029,656	2,076,947	2,134,096	2,115,363	2,202,000	2,320,601	2,497,196	2,604,342	2,712,101	2,694,168	2,654,344
Minnesota	802,840	866,304	840,731	869,824	885,306	882,516	912,843	917,633	951,455	1,011,132	1,037,129	1,072,582
Mississippi	418,235	431,365	437,775	385,916	378,750	381,383	412,153	437,120	438,422	493,183	475,626	453,990
Missouri	964,192	984,357	1,055,960	1,028,703	1,014,509	1,046,359	1,112,509	1,146,069	1,213,421	1,318,262	1,383,261	1,508,463
Montana	195,619	182,326	184,754	175,054	172,201	171,530	184,756	216,170	214,221	250,102	262,328	301,966
Nebraska	383,260	393,395	419,164	419,565	428,017	435,767	447,703	478,198	498,045	534,272	545,367	537,664
Nevada	170,989	160,254	149,323	147,079	146,056	148,339	172,933	185,836	221,608	241,651	252,741	264,939
New Hampshire	298,650	341,848	349,891	335,518	337,909	336,857	361,834	413,173	422,319	423,530	432,458	446,698
New Jersey	1,022,690	1,091,890	1,060,469	1,120,119	1,081,018	1,048,622	1,067,318	1,137,993	1,231,456	1,227,813	1,308,824	1,261,263
New Mexico	407,429	400,121	390,548	390,745	400,180	377,543	352,296	358,025	361,605	357,866	368,423	466,518
New York	4,782,174	5,105,083	5,157,872	5,327,470	5,450,410	5,449,862	5,817,824	6,048,744	6,271,932	6,714,700	6,793,694	7,211,185
North Carolina	2,422,947	2,603,702	2,618,572	2,669,329	2,741,270	2,744,906	2,847,296	2,991,666	3,104,305	3,275,092	3,257,648	3,369,741
North Dakota	202,626	209,430	213,666	212,705	215,551	212,524	221,251	241,188	240,568	246,564	251,914	282,924



TABLE 81

**Higher education R&D expenditures in science and engineering fields, by state: FYs 2010–21**

(Dollars in thousands)

State	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Ohio	1,963,559	2,107,830	2,017,370	2,048,353	2,043,780	2,017,358	2,055,047	2,164,145	2,249,451	2,382,832	2,396,135	2,666,974
Oklahoma	383,110	418,373	412,978	384,729	391,926	392,480	428,939	440,486	455,130	472,673	538,006	520,445
Oregon	663,378	701,228	680,956	667,974	670,105	679,739	701,813	731,137	771,348	812,126	846,674	880,461
Pennsylvania	3,026,823	3,201,566	3,125,789	3,237,847	3,210,166	3,249,295	3,710,218	3,948,483	4,162,865	4,397,493	4,562,944	4,679,834
Rhode Island	287,708	330,272	335,689	320,663	379,144	376,956	330,514	304,898	341,552	357,966	364,094	389,299
South Carolina	616,972	576,881	563,599	567,300	565,820	571,747	605,162	617,864	618,354	615,442	653,027	647,829
South Dakota	126,562	132,295	123,383	113,284	100,343	97,179	102,269	108,230	111,203	113,692	105,707	95,252
Tennessee	879,994	952,398	968,317	973,486	1,079,491	1,022,308	1,037,952	1,133,255	1,209,155	1,244,917	1,307,526	1,520,037
Texas	4,220,820	4,427,560	4,413,601	4,585,482	4,658,686	4,794,484	4,994,430	5,192,867	5,312,828	5,600,114	6,186,567	6,433,519
Utah	551,607	614,316	608,199	673,095	674,070	715,106	537,012	540,493	784,478	862,465	912,369	959,210
Vermont	132,519	136,623	119,802	120,178	113,711	118,957	119,665	121,257	131,483	138,530	181,505	185,234
Virginia	1,134,387	1,300,258	1,283,852	1,323,095	1,287,075	1,302,589	1,356,482	1,436,045	1,540,781	1,665,152	1,763,756	1,752,594
Washington	1,304,992	1,438,349	1,376,467	1,402,118	1,399,577	1,431,158	1,525,348	1,578,678	1,654,786	1,674,824	1,690,536	1,763,887
West Virginia	178,435	195,952	189,225	184,992	184,291	187,867	188,571	198,131	200,660	202,161	206,447	220,189
Wisconsin	1,230,932	1,338,580	1,330,338	1,277,944	1,271,868	1,227,594	1,336,139	1,401,938	1,439,377	1,558,846	1,639,168	1,671,344
Wyoming	53,957	55,320	63,812	63,149	48,736	54,928	108,552	121,927	112,857	79,928	91,738	92,230
American Samoa	ne	ne	ne	ne	ne	1,337	793	ne	ne	860	ne	815
Guam	5,555	5,477	5,975	5,873	6,790	5,919	7,351	8,803	11,053	12,001	12,674	17,212
Puerto Rico	114,982	152,435	141,188	123,784	117,258	121,299	116,936	108,032	98,665	113,669	105,413	112,510
Virgin Islands	31,272	21,373	24,543	18,374	14,732	19,456	21,215	12,031	11,853	11,668	13,622	15,231

ne = not eligible; no institutions within the state met the criteria for inclusion.

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 82

**Higher education R&D expenditures at institutions in the short form survey population in FY 2021, by state, institutional control, and institution: FYs 2018–21**

(Dollars in thousands)

State, institutional control, and institution	2018	2019	2020	2021
Alabama				
Public				
Auburn U., Montgomery	227	325	312	442
U. North Alabama	ne	ne	ne	539
U. West Alabama	467	462	465	239
Private				
Alabama C., Osteopathic Medicine	ne	370	303	184
Oakwood U.	766 i	666	538	474
Arizona				
Public				
Dine C.	1,238	1,126	347	1,570
Arkansas				
Public				
Arkansas Tech U.	1,022	961	856	751
Southern Arkansas U.	359	329	275	611
Private				
Arkansas C. of Health Education	ne	ne	900	672
Hendrix C.	840	902	649	651
Ouachita Baptist U.	368	318 i	268 i	217
Philander Smith C.	426	219	208 i	207 i
California				
Private				
California Lutheran U.	1,106	1,143	630	1,129
Claremont School of Theology	390	431	443 i	464 i
Dominican U. California	840	828 i	786 i	823 i
Palo Alto U.	964	290	417	428
Pitzer C.	808	468	313	225
Point Loma Nazarene U.	350	265	237	505
Scripps C.	ne	ne	ne	150 i
Southern California U. of Health Sciences	ne	443 i	420 i	418
Westmont C.	240	376	211	295
Whittier C.	344	388	248	300
Colorado				
Public				
Colorado Mesa U.	329	372	452	823
Metropolitan State U. of Denver	939	574	496	416
Western Colorado U.	491	460	571	559
Private				
Regis U.	780	706	311	476
Connecticut				
Public				
U.S. Coast Guard Academy	829	708	398	155
Western Connecticut State U.	646	713	539	353
Private				
Hartford International U. for Religion and Peace	ne	ne	345	512
Quinnipiac U.	994 i	980 i	930 i	926 i
Florida				
Public				
New C. Florida	875	962	999	960

TABLE 82

**Higher education R&D expenditures at institutions in the short form survey population in FY 2021, by state, institutional control, and institution: FYs 2018–21**

(Dollars in thousands)

State, institutional control, and institution	2018	2019	2020	2021
Private				
Barry U.	436	295	237	343
Bethune-Cookman U.	1,137	735	636	928
Eckerd C.	495	435	406	367
Jacksonville U.	237	365	459	460
Keiser U.	480	450	423	443 i
Rollins C.	668	626	414	533
St. Thomas U.	184	268	160	176
Stetson U.	393	476	670	611
U. Tampa	313	489	559	551
Georgia				
Public				
Clayton State U.	ne	330	346	616
Columbus State U.	ne	ne	261	206
Georgia C. and State U.	154	548	270	247
Georgia Gwinnett C.	522	610	478	489
U. West Georgia	397	508	483	500 i
Valdosta State U.	444	424	496	423
Private				
Agnes Scott C.	287	229	152	351
Berry C.	301	553	646	371
Life U.	176	207	429	364
Idaho				
Public				
Lewis-Clark State C.	627	599	660	401
Private				
Northwest Nazarene U.	686	447	408	442
Illinois				
Public				
Chicago State U.	1,154	898	980	2,414
Eastern Illinois U.	743	700	540	529
Governors State U.	698	735	508	391
Private				
Augustana C.	284	237	205	271
Bradley U.	1,274	1,357	851	416
Elmhurst U.	154	224	209	464
Illinois C. of Optometry	179	326	478	490
Lake Forest C.	459	416 i	372	267
Indiana				
Public				
Indiana U., Kokomo	405	393	483	441
Indiana U., Northwest	200	509	488	553
Indiana U., Southeast	588	557	582	591
U. Southern Indiana	298	362	300	161
Private				
Butler U.	938	680	679	1,071
DePauw U.	308	308	253	304
Earlham C.	451	456	165	287
Indiana Wesleyan U.	418	706	316	878

TABLE 82

**Higher education R&D expenditures at institutions in the short form survey population in FY 2021, by state, institutional control, and institution: FYs 2018–21**

(Dollars in thousands)

State, institutional control, and institution	2018	2019	2020	2021
Manchester U.	551	541	286	266
Taylor U.	205	225	232	214
U. Evansville	268	350	245	284
Valparaiso U.	870	763	718	925
Iowa				
Private				
Coe C.	623	699	561	538
Cornell C.	423	397 i	370	464
Luther C.	685	451	365	363 i
Kansas				
Public				
Emporia State U.	732	777	594	586
Kentucky				
Private				
Centre C.	495	506	376	265
Louisiana				
Public				
Louisiana State U., Shreveport	707	572	494	462
McNeese State U.	416	370	585	664
Nicholls State U.	496	738	650	551
Southern U., New Orleans	597	596	310	297
Private				
Loyola U., New Orleans	461	443	338	476
Maine				
Public				
U. Maine Farmington	ne	526 i	961 i	996 i
Maryland				
Public				
Coppin State U.	233	243	202	299
St. Mary's C. Maryland	295	369	556	349
Private				
Goucher C.	328	450	245	255
Loyola U., Maryland	614	663	672	628
Maryland Institute C. of Art	624	494	618	634
Massachusetts				
Public				
Bridgewater State U.	190	331	345	522
Private				
Bentley U.	620	465	777	1,430
C. of the Holy Cross	612	477	321	445
Emerson C.	2,059	1,145	919	581
Hult International Business School	973 i	959 i	910 i	953 i
MCPHS U.	600	606	473	346
Merrimack C.	796	1,097	503	407
Simmons U.	386	472	604	487
Stonehill C.	977	1,019	833	695
Western New England U.	479	283	505	1,973
Wheaton C., Norton	185	240	281	186
Michigan				

TABLE 82

**Higher education R&D expenditures at institutions in the short form survey population in FY 2021, by state, institutional control, and institution: FYs 2018–21**

(Dollars in thousands)

State, institutional control, and institution	2018	2019	2020	2021
Public				
Ferris State U.	597	366	394	853
Lake Superior State U.	633	830	935	1,226
Private				
Kalamazoo C.	644 i	635 i	603 i	600 i
Minnesota				
Public				
Metropolitan State U.	ne	150 i	156 i	162 i
Minnesota State U., Moorhead	327	209	169	462
U. Minnesota, Rochester	636	639	733	730
Private				
Augsburg U.	1,051	991	883	815
Concordia C., Moorhead	ne	ne	275	308
Gustavus Adolphus C.	597	808	843	953
Hamline U.	ne	ne	ne	493
Saint Mary's U. Minnesota	680	603	610	640
St. Catherine U.	814	267	963	1,157
Mississippi				
Public				
Delta State U.	489	204	592	238
Mississippi Valley State U.	944	986	653	391
Private				
Millsaps C.	552	243	228	636
Missouri				
Public				
Missouri Western State U.	500	176	306	214
Northwest Missouri State U.	234	192	239	190
Southeast Missouri State U.	511	372	232	228
Truman State U.	332	285	296	237
U. Central Missouri	315	415	401	495
Private				
A. T. Still U. of Health Sciences	1,492	644	656	448
Graduate School of the Stowers Institute for Medical Research	ne	ne	416	555
Montana				
Public				
Montana State U., Billings	593	545	399	522
Montana State U., Northern	258	236	322	372
Salish Kootenai C.	1,741	1,252	807	596
Nevada				
Public				
C. Southern Nevada	211	232	194	335
Nevada State C.	796	701	561	1,014
New Hampshire				
Public				
Plymouth State U.	990	880	664	2,318
New Jersey				
Public				
New Jersey City U.	8,211	5,961	262	169
Ramapo C. New Jersey	401	351	441	408

TABLE 82

**Higher education R&D expenditures at institutions in the short form survey population in FY 2021, by state, institutional control, and institution: FYs 2018–21**

(Dollars in thousands)

State, institutional control, and institution	2018	2019	2020	2021
Private				
Fairleigh Dickinson U.	917	791	656	318
Rider U.	1,363	228	170	322
New Mexico				
Public				
Eastern New Mexico U., Portales	341	292	358	355
Northern New Mexico C.	844	581	404	350
New York				
Public				
CUNY, Medgar Evers C.	2,062	1,397	882	694
SUNY, C. Cortland	463	527	255	381
SUNY, C. of Technology, Canton	ne	ne	ne	1,794
SUNY, C. Old Westbury	ne	ne	150	155
SUNY, Cobleskill	ne	ne	625	1,106
SUNY, Delhi	280	634	726	201
SUNY, Empire State C.	ne	ne	ne	248
SUNY, Farmingdale State C.	ne	ne	589	606
SUNY, Morrisville	170	ne	ne	155
SUNY, New Paltz	668	494	330	329
SUNY, Oneonta	834	623	214	214
SUNY, Potsdam	ne	235	ne	540
Private				
Adelphi U.	330	359	1,258	2,157
Bard C.	234	235	242	248
Cooper Union	418	710	501	545
D'Youville C.	ne	383	382	306
Iona C.	ne	ne	239	411
Northeast C. of Health Sciences	395	334	234	184
Siena C.	941	944	884	923
St. Bonaventure U.	519	1,049	585	378
Touro C.	546	470	439	419
Utica C.	420	598	549	466
North Carolina				
Public				
U. North Carolina, Pembroke	814	620	344	243
North Dakota				
Public				
Mayville State U.	267	292	509	634
Minot State U.	418	251	253	512
Private				
United Tribes Technical C.	ne	379	976	441
Ohio				
Private				
Baldwin Wallace U.	392	221	ne	210
Denison U.	585	577	727	724
John Carroll U.	370	658	522	374
Kenyon C.	1,227	1,092	908	1,500
Ohio Northern U.	405	316	348	471
Ohio Wesleyan U.	509	325	323	404

TABLE 82

**Higher education R&D expenditures at institutions in the short form survey population in FY 2021, by state, institutional control, and institution: FYs 2018–21**

(Dollars in thousands)

State, institutional control, and institution	2018	2019	2020	2021
Wittenberg U.	273	267	297	445
Oklahoma				
Public				
East Central U.	368	310 <sup>i</sup>	251	242
Northeastern State U.	245	432	406	279
Southwestern Oklahoma State U.	527	504	484	614
Oregon				
Public				
Eastern Oregon U.	562	472	172	162
Southern Oregon U.	660	424	493	534
Private				
Linfield U.	326	464	319	239
U. Portland	1,061	942	737	718
Pennsylvania				
Public				
Bloomsburg U. Pennsylvania	727	734	735	348
East Stroudsburg U. Pennsylvania	813	677	797	1,440
Kutztown U. Pennsylvania	415	464	472	292
Millersville U. Pennsylvania	862	782	402	931
Pennsylvania State U., Abington	ne	ne	ne	369
Pennsylvania State U., Altoona	708	680	714	678
Pennsylvania State U., Berks	562	273	372	382
Pennsylvania State U., Great Valley School of Graduate Professional Studies	370	419	ne	927
Pennsylvania State U., Greater Allegheny	ne	ne	ne	216
Pennsylvania State U., Lehigh Valley	ne	ne	150	162
Pennsylvania State U., New Kensington	ne	ne	ne	152
Pennsylvania State U., Wilkes-Barre	ne	ne	ne	250
Slippery Rock U. Pennsylvania	218	213	390	295
Private				
Bryn Athyn C.	420	305	432	316
Delaware Valley U.	ne	ne	ne	182
Dickinson C.	1,068	1,037	929	767
Gannon U.	409	555	351	972
Gettysburg C.	1,539	1,664	913	648
Juniata C.	605	560	937	380
La Salle U.	886	1,135	818	829
Lake Erie C. of Osteopathic Medicine	704	565	472	502
Moravian C.	271	273	309	255
Muhlenberg C.	472	539	398	288
Saint Francis U.	650	829	878	872
Salus U.	1,286	854	650	677
Susquehanna U.	511	368	496	360
U. Scranton	290	450	595	630
Ursinus C.	925	768	497	835
Widener U., Chester	534	764	586	417
Wilkes U.	653	549	968	372
Rhode Island				
Private				
Bryant U.	347	353	302	347

TABLE 82

**Higher education R&D expenditures at institutions in the short form survey population in FY 2021, by state, institutional control, and institution: FYs 2018–21**

(Dollars in thousands)

State, institutional control, and institution	2018	2019	2020	2021
Salve Regina U.	419	495	591	624
South Carolina				
Public				
Francis Marion U.	258	362	216	207
U. South Carolina Upstate	ne	257	437	496
U. South Carolina, Beaufort	497	532	599	976
Private				
Benedict C.	1,934	1,269	649	745
Converse C.	235	317	185	294
South Dakota				
Public				
Northern State U.	248	225	240	190
Oglala Lakota C.	692	683	516	473
Tennessee				
Public				
U. Tennessee, Martin	338	363	305	199
Private				
Sewanee: U. of the South	676	867	864	668
Texas				
Public				
Angelo State U.	774	815	798	943
Midwestern State U.	868	1,100	891	882
Texas A&M U.-Central Texas	1,122	428	623	814
Texas A&M U.-San Antonio	333	308	567	1,311
U. Houston system administration	971	965	514	513
Private				
Austin C.	384	376	342	302
LeTourneau U.	737	239	271	346
McMurry U.	ne	ne	ne	296
Parker U.	ne	ne	ne	190
Southwestern U.	386	334	261	408
Texas Chiropractic C.	215 i	212 i	201 i	200 i
U. Dallas	ne	ne	ne	249
Utah				
Public				
Southern Utah U.	763	812	955	773
Utah Valley U.	281	151	336	1,154
Weber State U.	721	1,081	676	822
Vermont				
Private				
Norwich U.	867	992	749	890
Saint Michael's C.	1,482	1,200	957	876
Virginia				
Public				
Longwood U.	388	353	368	544
Radford U.	604	879	774	832
Virginia Military Institute	499	727	712	1,351
Private				
Eastern Mennonite U.	299	209	236	233



TABLE 82

**Higher education R&D expenditures at institutions in the short form survey population in FY 2021, by state, institutional control, and institution: FYs 2018–21**

(Dollars in thousands)

State, institutional control, and institution	2018	2019	2020	2021
Roanoke C.	954	826	606	738
U. Lynchburg	ne	ne	ne	150 i
Washington and Lee U.	ne	241	214	256
Washington				
Public				
Evergreen State C.	486 i	563	390	783
Private				
Gonzaga U.	396	187	506	212
Pacific Lutheran U.	257	342	449	370
Saint Martin's U.	ne	ne	201	299
Seattle Pacific U.	870	724	643	683
U. Puget Sound	900	1,039	895	1,233
Whitman C.	1,041	1,083	865	1,034
Whitworth U.	806	421	660	403
West Virginia				
Public				
Bluefield State C.	443	595	485	506
West Liberty U.	688	908	738	738
Private				
Future Generations U.	ne	286	271 i	270 i
U. Charleston	ne	ne	5,935 i	6,215
Wisconsin				
Public				
U. Wisconsin-Stout	902	668	555	406
U. Wisconsin-Whitewater	685	757	736	760
Private				
Alverno C.	219	216	237	215
Concordia U., Wisconsin	352	248	293	439
Lawrence U.	439	508	423	536
St. Norbert C.	411	354	304	412
Puerto Rico				
Public				
U. Puerto Rico, Aguadilla	512	465	562	639
U. Puerto Rico, Ponce	698 i	651	616 i	580
Private				
Polytechnic U. Puerto Rico	1,929	2,118	813	821
Pontifical Catholic U. Puerto Rico, Ponce	150	287	239	350
San Juan Bautista School of Medicine	754	896	612	598
U. Ana G. Mendez, Carolina	865	1,099	647	602
U. Ana G. Mendez, Cupey	3,926	624	818	739

i = imputed. ne = not eligible; institution did not meet the criteria for inclusion.

**Note(s):**

Institutions are included in the short form population if they reported less than \$1 million in total R&D expenditures during the previous fiscal year. Institutions can move between the short form and standard form populations as their R&D expenditures increase or decrease; therefore, prior year amounts listed for some institutions may be represented in the aggregate totals for the standard form.

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 83

**Higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
United States	148,560	7,786	8,336	59,531	3,692	18,465	4,153	9,146	3,622	9,453	24,376
Public	64,948	4,828	4,500	24,901	1,525	7,798	775	3,908	1,949	4,089	10,675
Private	83,612	2,958	3,836	34,630	2,167	10,667	3,378	5,238	1,673	5,364	13,701
Alabama	1,878	78	6	540	355	192	0	21	74	243	369
Public	1,220	78	6	340	222	192	0	21	0	3	358
Auburn U., Montgomery	442	78	0	107	69	33	0	4	0	0	151
U. North Alabama	539	0	6	0	153	159	0	11	0	3	207
U. West Alabama	239	0	0	233	0	0	0	6	0	0	0
Private	658	0	0	200	133	0	0	0	74	240	11
Alabama C., Osteopathic Medicine	184	0	0	184	0	0	0	0	0	0	0
Oakwood U.	474	0	0	16	133	0	0	0	74	240	11
Arizona	1,570	0	0	1,570	0	0	0	0	0	0	0
Public	1,570	0	0	1,570	0	0	0	0	0	0	0
Dine C.	1,570	0	0	1,570	0	0	0	0	0	0	0
Arkansas	3,109	6	3	1,369	172	584	0	369	45	325	236
Public	1,362	6	0	285	7	376	0	369	3	178	138
Arkansas Tech U.	751	6	0	242	7	57	0	362	3	73	1
Southern Arkansas U.	611	0	0	43	0	319	0	7	0	105	137
Private	1,747	0	3	1,084	165	208	0	0	42	147	98
Arkansas C. of Health Education	672	0	0	672	0	0	0	0	0	0	0
Hendrix C.	651	0	0	281	0	208	0	0	0	64	98
Ouachita Baptist U.	217	0	3	131	0	0	0	0	0	83	0
Philander Smith C.	207	0	0	0	165	0	0	0	42	0	0
California	4,737	229	41	2,112	66	391	477	502	74	21	824
Private	4,737	229	41	2,112	66	391	477	502	74	21	824
California Lutheran U.	1,129	51	21	618	49	190	20	83	14	0	83
Claremont School of Theology	464	0	0	0	0	0	0	0	0	0	464
Dominican U. California	823	52	0	745	0	0	0	0	0	0	26
Palo Alto U.	428	0	0	0	0	0	428	0	0	0	0
Pitzer C.	225	0	20	10	5	0	20	70	0	0	100
Point Loma Nazarene U.	505	126	0	42	0	0	0	277	60	0	0
Scripps C.	150	0	0	73	5	24	7	11	0	0	30

TABLE 83

**Higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields											
Southern California U. of Health Sciences	418	0	0	418	0	0	0	0	0	0	0											
Westmont C.	295	0	0	100	7	147	2	18	0	21	0											
Whittier C.	300	0	0	106	0	30	0	43	0	0	121											
Colorado	2,274	13	72	1,521	60	155	24	24	74	105	226											
Public	1,798	13	72	1,206	56	101	0	18	74	105	153											
Colorado Mesa U.	823	13	36	647	0	0	0	18	0	105	4											
Metropolitan State U. of Denver	416	0	36	0	56	101	0	0	74	0	149											
Western Colorado U.	559	0	0	559	0	0	0	0	0	0	0											
Private	476	0	0	315	4	54	24	6	0	0	73											
Regis U.	476	0	0	315	4	54	24	6	0	0	73											
Connecticut	1,946	26	89	695	22	153	45	69	0	137	710											
Public	508	0	40	303	0	23	8	12	0	91	31											
U.S. Coast Guard Academy	155	0	40	14	0	4	0	6	0	91	0											
Western Connecticut State U.	353	0	0	289	0	19	8	6	0	0	31											
Private	1,438	26	49	392	22	130	37	57	0	46	679											
Hartford International U. for Religion and Peace	512	0	0	0	0	0	0	0	0	0	512											
Quinnipiac U.	926	i	26	i	49	i	392	i	22	i	130	i	37	i	57	i	0	i	46	i	167	i
Florida	5,372	105	984	2,215	201	462	39	357	32	0	977											
Public	960	69	0	603	28	54	0	104	0	0	102											
New C. Florida	960	69	0	603	28	54	0	104	0	0	102											
Private	4,412	36	984	1,612	173	408	39	253	32	0	875											
Barry U.	343	0	0	201	0	31	0	0	0	0	111											
Bethune-Cookman U.	928	0	378	543	0	0	0	0	0	0	7											
Eckerd C.	367	0	254	63	43	0	0	0	0	0	7											
Jacksonville U.	460	0	352	70	38	0	0	0	0	0	0											
Keiser U.	443	i	0	i	0	i	0	i	0	i	443	i										
Rollins C.	533	0	0	73	0	215	11	83	32	0	119											
St. Thomas U.	176	35	0	92	1	1	0	0	0	0	47											
Stetson U.	611	0	0	374	90	0	0	118	0	0	29											
U. Tampa	551	1	0	196	1	161	28	52	0	0	112											
Georgia	3,567	183	454	1,227	304	426	196	593	109	0	75											
Public	2,481	182	371	569	248	425	190	350	108	0	38											

TABLE 83

**Higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Clayton State U.	616	0	0	0	9	160	104	244	99	0	0
Columbus State U.	206	110	0	74	0	12	0	10	0	0	0
Georgia C. and State U.	247	0	7	128	0	25	6	72	9	0	0
Georgia Gwinnett C.	489	72	9	116	95	184	2	4	0	0	7
U. West Georgia	500 i	0 i	115 i	178 i	135 i	42 i	0 i	19 i	0 i	0 i	11 i
Valdosta State U.	423	0	240	73	9	2	78	1	0	0	20
Private	1,086	1	83	658	56	1	6	243	1	0	37
Agnes Scott C.	351	0	83	161	55	0	5	22	0	0	25
Berry C.	371	1	0	133	1	1	1	221	1	0	12
Life U.	364	0	0	364	0	0	0	0	0	0	0
Idaho	843	19	0	539	0	63	0	0	0	164	58
Public	401	0	0	343	0	0	0	0	0	0	58
Lewis-Clark State C.	401	0	0	343	0	0	0	0	0	0	58
Private	442	19	0	196	0	63	0	0	0	164	0
Northwest Nazarene U.	442	19	0	196	0	63	0	0	0	164	0
Illinois	5,242	95	16	1,923	0	2,086	54	61	373	285	349
Public	3,334	85	16	996	0	1,815	13	4	373	0	32
Chicago State U.	2,414	80	0	180	0	1,781	0	0	373	0	0
Eastern Illinois U.	529	5	16	425	0	34	13	4	0	0	32
Governors State U.	391	0	0	391	0	0	0	0	0	0	0
Private	1,908	10	0	927	0	271	41	57	0	285	317
Augustana C.	271	0	0	43	0	123	0	2	0	0	103
Bradley U.	416	5	0	40	0	86	0	0	0	285	0
Elmhurst U.	464	0	0	320	0	5	0	0	0	0	139
Illinois C. of Optometry	490	0	0	490	0	0	0	0	0	0	0
Lake Forest C.	267	5	0	34	0	57	41	55	0	0	75
Indiana	5,975	218	42	2,319	197	1,010	183	198	136	75	1,597
Public	1,746	0	21	354	11	50	58	107	136	24	985
Indiana U., Kokomo	441	0	0	6	0	20	24	13	0	0	378
Indiana U., Northwest	553	0	7	251	0	3	9	34	105	0	144
Indiana U., Southeast	591	0	0	44	0	20	0	53	31	0	443
U. Southern Indiana	161	0	14	53	11	7	25	7	0	24	20

TABLE 83

**Higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Private	4,229	218	21	1,965	186	960	125	91	0	51	612
Butler U.	1,071	0	0	829	5	52	21	20	0	0	144
DePauw U.	304	65	8	60	19	85	10	21	0	0	36
Earlham C.	287	20	0	110	0	65	1	19	0	0	72
Indiana Wesleyan U.	878	17	0	141	0	286	72	9	0	0	353
Manchester U.	266	0	0	265	0	1	0	0	0	0	0
Taylor U.	214	116	0	37	9	42	3	7	0	0	0
U. Evansville	284	0	0	65	146	47	18	0	0	1	7
Valparaiso U.	925	0	13	458	7	382	0	15	0	50	0
Iowa	1,365	10	92	183	17	679	168	66	0	8	142
Private	1,365	10	92	183	17	679	168	66	0	8	142
Coe C.	538	0	0	6	2	444	0	32	0	0	54
Cornell C.	464	7	61	112	7	82	158	14	0	8	15
Luther C.	363	3	31	65	8	153	10	20	0	0	73
Kansas	586	0	0	325	0	152	0	0	0	0	109
Public	586	0	0	325	0	152	0	0	0	0	109
Emporia State U.	586	0	0	325	0	152	0	0	0	0	109
Kentucky	265	3	0	103	11	0	4	52	58	8	26
Private	265	3	0	103	11	0	4	52	58	8	26
Centre C.	265	3	0	103	11	0	4	52	58	8	26
Louisiana	2,450	422	171	804	0	165	1	354	0	134	399
Public	1,974	422	171	727	0	139	1	0	0	134	380
Louisiana State U., Shreveport	462	338	0	115	0	7	0	0	0	0	2
McNeese State U.	664	0	0	192	0	3	1	0	0	92	376
Nicholls State U.	551	0	0	420	0	129	0	0	0	0	2
Southern U., New Orleans	297	84	171	0	0	0	0	0	0	42	0
Private	476	0	0	77	0	26	0	354	0	0	19
Loyola U., New Orleans	476	0	0	77	0	26	0	354	0	0	19
Maine	996	45	65	403	22	84	17	60	0	182	118
Public	996	45	65	403	22	84	17	60	0	182	118
U. Maine Farmington	996	45	65	403	22	84	17	60	0	182	118
Maryland	2,165	36	66	419	55	246	17	202	136	42	946

TABLE 83

**Higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Public	648	26	66	182	48	82	4	197	0	42	1
Coppin State U.	299	26	0	182	48	0	0	0	0	42	1
St. Mary's C. Maryland	349	0	66	0	0	82	4	197	0	0	0
Private	1,517	10	0	237	7	164	13	5	136	0	945
Goucher C.	255	0	0	66	0	158	0	0	0	0	31
Loyola U., Maryland	628	10	0	171	7	6	13	5	136	0	280
Maryland Institute C. of Art	634	0	0	0	0	0	0	0	0	0	634
Massachusetts	8,025	814	263	2,309	93	664	202	628	169	1,645	1,238
Public	522	0	0	148	0	239	5	68	0	0	62
Bridgewater State U.	522	0	0	148	0	239	5	68	0	0	62
Private	7,503	814	263	2,161	93	425	197	560	169	1,645	1,176
Bentley U.	1,430	0	0	768	46	248	1	348	0	19	0
C. of the Holy Cross	445	0	0	335	0	98	12	0	0	0	0
Emerson C.	581	44	0	101	0	0	0	210	0	0	226
Hult International Business School	953	i 401	i 0	i 0	i 0	i 0	i 111	i 0	i 0	i 0	i 441
MCPHS U.	346	0	0	276	0	0	70	0	0	0	0
Merrimack C.	407	0	0	251	0	0	0	0	0	29	127
Simmons U.	487	255	0	216	0	1	2	2	0	0	11
Stonehill C.	695	0	263	0	0	0	0	0	169	0	263
Western New England U.	1,973	114	0	214	47	0	1	0	0	1,597	0
Wheaton C., Norton	186	0	0	0	0	78	0	0	0	0	108
Michigan	2,679	19	0	2,212	47	132	24	69	0	43	133
Public	2,079	0	0	1,948	34	45	0	9	0	43	0
Ferris State U.	853	0	0	786	34	33	0	0	0	0	0
Lake Superior State U.	1,226	0	0	1,162	0	12	0	9	0	43	0
Private	600	19	0	264	13	87	24	60	0	0	133
Kalamazoo C.	600	i 19	i 0	i 264	i 13	i 87	i 24	i 60	i 0	i 0	i 133
Minnesota	5,720	13	453	2,123	12	1,547	39	526	47	0	960
Public	1,354	6	61	920	2	12	11	6	1	0	335
Metropolitan State U.	162	i 6	i 9	i 111	i 2	i 12	i 3	i 6	i 0	i 0	i 13
Minnesota State U., Moorhead	462	0	52	89	0	0	8	0	1	0	312
U. Minnesota, Rochester	730	0	0	720	0	0	0	0	0	0	10

TABLE 83

**Higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Private	4,366	7	392	1,203	10	1,535	28	520	46	0	625
Augsburg U.	815	0	199	0	0	209	0	0	6	0	401
Concordia C., Moorhead	308	7	0	163	0	67	21	0	4	0	46
Gustavus Adolphus C.	953	0	193	47	10	573	7	18	0	0	105
Hamline U.	493	0	0	81	0	21	0	300	36	0	55
Saint Mary's U. Minnesota	640	0	0	0	0	640	0	0	0	0	0
St. Catherine U.	1,157	0	0	912	0	25	0	202	0	0	18
Mississippi	1,265	90	145	453	25	143	35	32	147	130	65
Public	629	90	104	129	0	11	0	13	147	130	5
Delta State U.	238	0	104	129	0	0	0	2	0	0	3
Mississippi Valley State U.	391	90	0	0	0	11	0	11	147	130	2
Private	636	0	41	324	25	132	35	19	0	0	60
Millsaps C.	636	0 i	41 i	324 i	25 i	132 i	35 i	19 i	0 i	0 i	60 i
Missouri	2,367	6	0	1,535	101	63	166	13	0	3	480
Public	1,364	6	0	532	101	63	166	13	0	3	480
Missouri Western State U.	214	0	0	84	0	0	130	0	0	0	0
Northwest Missouri State U.	190	0	0	0	100	0	0	0	0	0	90
Southeast Missouri State U.	228	0	0	218	0	0	0	4	0	3	3
Truman State U.	237	6	0	76	1	63	36	9	0	0	46
U. Central Missouri	495	0	0	154	0	0	0	0	0	0	341
Private	1,003	0	0	1,003	0	0	0	0	0	0	0
A. T. Still U. of Health Sciences	448	0	0	448	0	0	0	0	0	0	0
Graduate School of the Stowers Institute for Medical Research	555	0	0	555	0	0	0	0	0	0	0
Montana	1,490	0	0	566	2	185	0	63	0	129	545
Public	1,490	0	0	566	2	185	0	63	0	129	545
Montana State U., Billings	522	0	0	318	2	0	0	63	0	0	139
Montana State U., Northern	372	0	0	107	0	136	0	0	0	129	0
Salish Kootenai C.	596	0	0	141	0	49	0	0	0	0	406
Nevada	1,349	0	132	1,019	101	97	0	0	0	0	0
Public	1,349	0	132	1,019	101	97	0	0	0	0	0
C. Southern Nevada	335	0	0	179	101	55	0	0	0	0	0

TABLE 83

**Higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Nevada State C.	1,014	0	132	840	0	42	0	0	0	0	0
New Hampshire	2,318	0	673	467	0	0	0	189	0	0	989
Public	2,318	0	673	467	0	0	0	189	0	0	989
Plymouth State U.	2,318	0	673	467	0	0	0	189	0	0	989
New Jersey	1,217	176	69	370	80	0	45	471	0	0	6
Public	577	73	0	176	0	0	7	315	0	0	6
New Jersey City U.	169	0	0	169	0	0	0	0	0	0	0
Ramapo C. New Jersey	408	73	0	7	0	0	7	315	0	0	6
Private	640	103	69	194	80	0	38	156	0	0	0
Fairleigh Dickinson U.	318	103	7	129	0	0	38	41	0	0	0
Rider U.	322	0	62	65	80	0	0	115	0	0	0
New Mexico	705	12	0	319	0	0	0	19	2	353	0
Public	705	12	0	319	0	0	0	19	2	353	0
Eastern New Mexico U., Portales	355	0	0	319	0	0	0	19	2	15	0
Northern New Mexico C.	350	12	0	0	0	0	0	0	0	338	0
New York	12,460	2,197	33	2,744	262	2,025	1,059	457	261	1,043	2,379
Public	6,423	1,817	28	1,427	107	1,214	24	113	132	1,019	542
CUNY, Medgar Evers C.	694	17	0	333	69	242	0	29	0	0	4
SUNY, C. Cortland	381	0	7	271	0	75	0	13	0	0	15
SUNY, C. of Technology, Canton	1,794	1,794	0	0	0	0	0	0	0	0	0
SUNY, C. Old Westbury	155	6	0	76	5	16	4	12	0	0	36
SUNY, Cobleskill	1,106	0	0	103	0	1	0	0	0	996	6
SUNY, Delhi	201	0	0	136	0	0	0	0	0	0	65
SUNY, Empire State C.	248	0	0	0	0	0	0	0	0	0	248
SUNY, Farmingdale State C.	606	0	0	10	0	575	0	1	0	10	10
SUNY, Morrisville	155	0	0	78	0	0	0	0	77	0	0
SUNY, New Paltz	329	0	5	44	33	68	12	54	0	13	100
SUNY, Oneonta	214	0	14	64	0	13	8	4	55	0	56
SUNY, Potsdam	540	0	2	312	0	224	0	0	0	0	2
Private	6,037	380	5	1,317	155	811	1,035	344	129	24	1,837
Adelphi U.	2,157	9	5	41	5	52	843	5	0	0	1,197
Bard C.	248	49	0	21	11	65	40	16	46	0	0



TABLE 83

**Higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Cooper Union	545	0	0	464	57	0	0	0	0	24	0
D'Youville C.	306	0	0	2	0	14	40	244	0	0	6
Iona C.	411	0	0	0	0	376	0	0	0	0	35
Northeast C. of Health Sciences	184	0	0	184	0	0	0	0	0	0	0
Siena C.	923	322	0	51	22	250	29	44	26	0	179
St. Bonaventure U.	378	0	0	103	0	38	0	0	0	0	237
Touro C.	419	0	0	307	0	0	0	1	57	0	54
Utica C.	466	0	0	144	60	16	83	34	0	0	129
North Carolina	243	0	0	0	0	243	0	0	0	0	0
Public	243	0	0	0	0	243	0	0	0	0	0
U. North Carolina, Pembroke	243	0	0	0	0	243	0	0	0	0	0
North Dakota	1,587	0	4	1,076	0	149	0	0	0	237	121
Public	1,146	0	0	876	0	149	0	0	0	0	121
Mayville State U.	634	0	0	364	0	149	0	0	0	0	121
Minot State U.	512	0	0	512	0	0	0	0	0	0	0
Private	441	0	4	200	0	0	0	0	0	237	0
United Tribes Technical C.	441	0	4	200	0	0	0	0	0	237	0
Ohio	4,128	30	493	1,448	61	684	286	277	0	197	652
Private	4,128	30	493	1,448	61	684	286	277	0	197	652
Baldwin Wallace U.	210	20	0	0	0	0	0	190	0	0	0
Denison U.	724	10	472	0	10	140	0	2	0	0	90
John Carroll U.	374	0	0	75	0	0	220	13	0	0	66
Kenyon C.	1,500	0	0	1,014	28	329	20	37	0	0	72
Ohio Northern U.	471	0	0	0	22	0	45	0	0	197	207
Ohio Wesleyan U.	404	0	0	359	1	8	1	35	0	0	0
Wittenberg U.	445	0	21	0	0	207	0	0	0	0	217
Oklahoma	1,135	13	132	617	8	130	0	30	197	0	8
Public	1,135	13	132	617	8	130	0	30	197	0	8
East Central U.	242	0	100	114	8	16	0	1	3	0	0
Northeastern State U.	279	0	32	202	0	33	0	4	0	0	8
Southwestern Oklahoma State U.	614	13	0	301	0	81	0	25	194	0	0
Oregon	1,653	20	11	218	8	482	20	449	112	124	209

TABLE 83

**Higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Public	696	20	11	1	0	268	0	373	23	0	0
Eastern Oregon U.	162	0	11	1	0	150	0	0	0	0	0
Southern Oregon U.	534	20	0	0	0	118	0	373	23	0	0
Private	957	0	0	217	8	214	20	76	89	124	209
Linfield U.	239	0	0	33	0	97	19	11	0	0	79
U. Portland	718	0	0	184	8	117	1	65	89	124	130
Pennsylvania	15,744	193	890	6,206	1,151	1,017	518	821	140	1,657	3,151
Public	6,442	120	583	1,935	368	475	150	212	42	776	1,781
Bloomsburg U. Pennsylvania	348	11	57	55	7	30	140	11	0	0	37
East Stroudsburg U. Pennsylvania	1,440	3	0	965	8	8	1	4	0	6	445
Kutztown U. Pennsylvania	292	5	0	70	22	89	0	70	0	0	36
Millersville U. Pennsylvania	931	0	322	176	287	19	0	89	32	0	6
Pennsylvania State U., Abington	369	0	39	26	21	77	0	0	0	117	89
Pennsylvania State U., Altoona	678	0	0	435	0	0	0	15	0	228	0
Pennsylvania State U., Berks	382	0	0	3	0	218	0	23	0	61	77
Pennsylvania State U., Great Valley School of Graduate Professional Studies	927	31	0	0	17	0	7	0	0	286	586
Pennsylvania State U., Greater Allegheny	216	0	0	0	0	0	0	0	0	0	216
Pennsylvania State U., Lehigh Valley	162	0	159	0	0	0	0	0	0	0	3
Pennsylvania State U., New Kensington	152	69	0	18	0	0	0	0	0	65	0
Pennsylvania State U., Wilkes-Barre	250	0	0	0	0	0	0	0	0	0	250
Slippery Rock U. Pennsylvania	295	1	6	187	6	34	2	0	10	13	36
Private	9,302	73	307	4,271	783	542	368	609	98	881	1,370
Bryn Athyn C.	316	0	0	43	0	0	0	42	0	6	225
Delaware Valley U.	182	0	0	181	0	0	1	0	0	0	0
Dickinson C.	767	0	0	408	40	52	0	64	0	0	203
Gannon U.	972	4	0	335	0	1	2	0	0	630	0
Gettysburg C.	648	2	6	246	6	36	47	199	0	0	106
Juniata C.	380	0	50	250	0	10	0	0	0	30	40
La Salle U.	829	0	0	107	0	0	246	0	0	0	476
Lake Erie C. of Osteopathic Medicine	502	0	0	452	0	0	50	0	0	0	0
Moravian C.	255	4	0	102	89	35	4	4	0	0	17

TABLE 83

**Higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Muhlenberg C.	288	0	0	114	0	49	2	60	61	0	2
Saint Francis U.	872	9	1	0	593	0	0	0	37	28	204
Salus U.	677	0	0	677	0	0	0	0	0	0	0
Susquehanna U.	360	0	7	319	0	2	5	20	0	0	7
U. Scranton	630	11	217	271	0	22	11	24	0	0	74
Ursinus C.	835	43	0	529	47	215	0	1	0	0	0
Widener U., Chester	417	0	19	126	0	2	0	191	0	78	1
Wilkes U.	372	0	7	111	8	118	0	4	0	109	15
Rhode Island	971	0	101	699	0	104	5	28	2	0	32
Private	971	0	101	699	0	104	5	28	2	0	32
Bryant U.	347	0	101	117	0	62	5	28	2	0	32
Salve Regina U.	624	0	0	582	0	42	0	0	0	0	0
South Carolina	2,718	74	272	836	35	434	15	178	0	530	344
Public	1,679	21	220	606	11	71	15	178	0	266	291
Francis Marion U.	207	0	0	99	6	71	15	0	0	16	0
U. South Carolina Upstate	496	0	0	12	0	0	0	20	0	250	214
U. South Carolina, Beaufort	976	21	220	495	5	0	0	158	0	0	77
Private	1,039	53	52	230	24	363	0	0	0	264	53
Benedict C.	745	53	52	230	24	122	0	0	0	264	0
Converse C.	294	0	0	0	0	241	0	0	0	0	53
South Dakota	663	0	236	422	0	0	0	0	5	0	0
Public	663	0	236	422	0	0	0	0	5	0	0
Northern State U.	190	0	0	185	0	0	0	0	5	0	0
Oglala Lakota C.	473	0	236	237	0	0	0	0	0	0	0
Tennessee	867	0	232	283	0	80	22	46	57	2	145
Public	199	0	0	197	0	0	0	0	0	2	0
U. Tennessee, Martin	199	0	0	197	0	0	0	0	0	2	0
Private	668	0	232	86	0	80	22	46	57	0	145
Sewanee: U. of the South	668	0	232	86	0	80	22	46	57	0	145
Texas	6,454	711	406	1,717	75	665	55	376	285	617	1,547
Public	4,463	709	406	1,144	60	67	24	260	285	249	1,259
Angelo State U.	943	0	1	684	0	48	21	126	0	43	20

TABLE 83

**Higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields	
Midwestern State U.	882	0	97	418	0	19	0	22	285	41	0	
Texas A&M U.-Central Texas	814	645	0	0	10	0	0	84	0	63	12	
Texas A&M U.-San Antonio	1,311	64	308	42	50	0	3	28	0	102	714	
U. Houston system administration	513	0	0	0	0	0	0	0	0	0	513	
Private	1,991	2	0	573	15	598	31	116	0	368	288	
Austin C.	302	0	0	42	0	190	1	23	0	0	46	
LeTourneau U.	346	1	0	3	0	42	0	0	0	299	1	
McMurry U.	296	0	0	195	0	32	0	0	0	69	0	
Parker U.	190	0	0	0	0	0	0	0	0	0	190	
Southwestern U.	408	1	0	103	15	162	29	47	0	0	51	
Texas Chiropractic C.	200	i	0	i	0	i	0	i	0	i	0	i
U. Dallas	249	0	0	30	0	172	1	46	0	0	0	
Utah	2,749	199	800	541	0	716	0	10	182	226	75	
Public	2,749	199	800	541	0	716	0	10	182	226	75	
Southern Utah U.	773	0	638	50	0	34	0	0	0	51	0	
Utah Valley U.	1,154	102	95	428	0	425	0	0	0	104	0	
Weber State U.	822	97	67	63	0	257	0	10	182	71	75	
Vermont	1,766	0	330	430	0	53	48	53	626	222	4	
Private	1,766	0	330	430	0	53	48	53	626	222	4	
Norwich U.	890	0	22	0	0	16	0	0	626	222	4	
Saint Michael's C.	876	0	308	430	0	37	48	53	0	0	0	
Virginia	4,104	730	73	928	66	188	53	218	187	93	1,568	
Public	2,727	723	33	350	52	112	49	181	187	93	947	
Longwood U.	544	0	0	24	0	0	0	36	4	0	480	
Radford U.	832	49	33	264	30	2	18	137	183	0	116	
Virginia Military Institute	1,351	674	0	62	22	110	31	8	0	93	351	
Private	1,377	7	40	578	14	76	4	37	0	0	621	
Eastern Mennonite U.	233	0	0	233	0	0	0	0	0	0	0	
Roanoke C.	738	0	8	91	13	42	3	29	0	0	552	
U. Lynchburg	150	i	7	i	4	i	112	i	1	i	12	i
Washington and Lee U.	256	0	28	142	0	22	0	3	0	0	61	
Washington	5,017	149	197	1,450	26	1,037	113	866	26	163	990	



TABLE 83

**Higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Pontifical Catholic U. Puerto Rico, Ponce	350	0	0	335	0	0	0	1	14	0	0
San Juan Bautista School of Medicine	598	0	0	598	0	0	0	0	0	0	0
U. Ana G. Mendez, Carolina	602	0	0	323	0	0	3	3	0	269	4
U. Ana G. Mendez, Cupey	739	0	0	198	0	338	0	0	0	0	203

i = imputed.

nec = not elsewhere classified; S&amp;E = science and engineering.

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2021.

**TABLE 84**  
**Federally financed higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
United States	84,667	6,535	5,254	37,061	2,359	12,509	2,346	3,429	1,792	5,183	8,199
Public	39,279	4,253	2,673	15,990	1,312	5,940	461	1,467	1,144	2,423	3,616
Private	45,388	2,282	2,581	21,071	1,047	6,569	1,885	1,962	648	2,760	4,583
Alabama	1,231	74	0	308	355	159	0	0	74	240	21
Public	751	74	0	275	222	159	0	0	0	0	21
Auburn U., Montgomery	201	74	0	56	69	2	0	0	0	0	0
U. North Alabama	331	0	0	0	153	157	0	0	0	0	21
U. West Alabama	219	0	0	219	0	0	0	0	0	0	0
Private	480	0	0	33	133	0	0	0	74	240	0
Alabama C., Osteopathic Medicine	17	0	0	17	0	0	0	0	0	0	0
Oakwood U.	463	0	0	16	133	0	0	0	74	240	0
Arizona	1,570	0	0	1,570	0	0	0	0	0	0	0
Public	1,570	0	0	1,570	0	0	0	0	0	0	0
Dine C.	1,570	0	0	1,570	0	0	0	0	0	0	0
Arkansas	2,131	6	3	685	172	565	0	336	42	263	59
Public	1,054	6	0	214	7	365	0	336	0	126	0
Arkansas Tech U.	632	6	0	214	7	46	0	336	0	23	0
Southern Arkansas U.	422	0	0	0	0	319	0	0	0	103	0
Private	1,077	0	3	471	165	200	0	0	42	137	59
Arkansas C. of Health Education	69	0	0	69	0	0	0	0	0	0	0
Hendrix C.	584	0	0	271	0	200	0	0	0	54	59
Ouachita Baptist U.	217	0	3	131	0	0	0	0	0	83	0
Philander Smith C.	207	0	0	0	165	0	0	0	42	0	0
California	2,195	202	15	1,398	33	212	216	47	0	0	72
Private	2,195	202	15	1,398	33	212	216	47	0	0	72
California Lutheran U.	518	27	15	232	29	116	5	45	0	0	49
Claremont School of Theology	0	0	0	0	0	0	0	0	0	0	0
Dominican U. California	731	49	0	666	0	0	0	0	0	0	16
Palo Alto U.	207	0	0	0	0	0	207	0	0	0	0
Pitzer C.	0	0	0	0	0	0	0	0	0	0	0
Point Loma Nazarene U.	126	126	0	0	0	0	0	0	0	0	0
Scripps C.	73	0	0	40	4	16	4	2	0	0	7

**TABLE 84**  
**Federally financed higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Southern California U. of Health Sciences	360	0	0	360	0	0	0	0	0	0	0
Westmont C.	180	0	0	100	0	80	0	0	0	0	0
Whittier C.	0	0	0	0	0	0	0	0	0	0	0
Colorado	1,615	13	0	1,161	52	143	0	18	0	104	124
Public	1,287	13	0	885	52	91	0	18	0	104	124
Colorado Mesa U.	664	13	0	525	0	0	0	18	0	104	4
Metropolitan State U. of Denver	263	0	0	0	52	91	0	0	0	0	120
Western Colorado U.	360	0	0	360	0	0	0	0	0	0	0
Private	328	0	0	276	0	52	0	0	0	0	0
Regis U.	328	0	0	276	0	52	0	0	0	0	0
Connecticut	830	19	68	437	17	95	24	17	0	113	40
Public	355	0	40	215	0	4	0	5	0	91	0
U.S. Coast Guard Academy	154	0	40	14	0	4	0	5	0	91	0
Western Connecticut State U.	201	0	0	201	0	0	0	0	0	0	0
Private	475	19	28	222	17	91	24	12	0	22	40
Hartford International U. for Religion and Peace	0	0	0	0	0	0	0	0	0	0	0
Quinnipiac U.	475 i	19 i	28 i	222 i	17 i	91 i	24 i	12 i	0 i	22 i	40 i
Florida	1,702	30	335	810	93	262	0	94	24	0	54
Public	92	0	0	59	12	21	0	0	0	0	0
New C. Florida	92	0	0	59	12	21	0	0	0	0	0
Private	1,610	30	335	751	81	241	0	94	24	0	54
Barry U.	40	0	0	0	0	8	0	0	0	0	32
Bethune-Cookman U.	715	0	288	427	0	0	0	0	0	0	0
Eckerd C.	139	0	47	49	43	0	0	0	0	0	0
Jacksonville U.	0	0	0	0	0	0	0	0	0	0	0
Keiser U.	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Rollins C.	165	0	0	0	0	136	0	5	24	0	0
St. Thomas U.	123	30	0	92	0	1	0	0	0	0	0
Stetson U.	304	0	0	155	38	0	0	89	0	0	22
U. Tampa	124	0	0	28	0	96	0	0	0	0	0
Georgia	1,948	115	120	541	185	338	182	364	103	0	0
Public	1,464	115	87	304	175	338	182	160	103	0	0



**TABLE 84**  
**Federally financed higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2021**  
(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Clayton State U.	532	0	0	0	9	160	104	160	99	0	0
Columbus State U.	77	59	0	18	0	0	0	0	0	0	0
Georgia C. and State U.	127	0	6	108	0	9	0	0	4	0	0
Georgia Gwinnett C.	372	56	9	79	80	148	0	0	0	0	0
U. West Georgia	233 i	0 i	31 i	95 i	86 i	21 i	0 i	0 i	0 i	0 i	0 i
Valdosta State U.	123	0	41	4	0	0	78	0	0	0	0
Private	484	0	33	237	10	0	0	204	0	0	0
Agnes Scott C.	152	0	33	109	10	0	0	0	0	0	0
Berry C.	332	0	0	128	0	0	0	204	0	0	0
Life U.	0	0	0	0	0	0	0	0	0	0	0
Idaho	656	0	0	505	0	45	0	0	0	100	6
Public	349	0	0	343	0	0	0	0	0	0	6
Lewis-Clark State C.	349	0	0	343	0	0	0	0	0	0	6
Private	307	0	0	162	0	45	0	0	0	100	0
Northwest Nazarene U.	307	0	0	162	0	45	0	0	0	100	0
Illinois	3,783	80	0	1,232	0	1,826	0	2	373	71	199
Public	3,094	80	0	851	0	1,790	0	0	373	0	0
Chicago State U.	2,414	80	0	180	0	1,781	0	0	373	0	0
Eastern Illinois U.	289	0	0	280	0	9	0	0	0	0	0
Governors State U.	391	0	0	391	0	0	0	0	0	0	0
Private	689	0	0	381	0	36	0	2	0	71	199
Augustana C.	116	0	0	20	0	34	0	2	0	0	60
Bradley U.	101	0	0	28	0	2	0	0	0	71	0
Elmhurst U.	459	0	0	320	0	0	0	0	0	0	139
Illinois C. of Optometry	13	0	0	13	0	0	0	0	0	0	0
Lake Forest C.	0	0	0	0	0	0	0	0	0	0	0
Indiana	2,546	66	19	1,474	171	587	17	15	83	60	54
Public	400	0	6	227	11	0	0	0	83	19	54
Indiana U., Kokomo	27	0	0	0	0	0	0	0	0	0	27
Indiana U., Northwest	273	0	0	190	0	0	0	0	83	0	0
Indiana U., Southeast	64	0	0	37	0	0	0	0	0	0	27
U. Southern Indiana	36	0	6	0	11	0	0	0	0	19	0

**TABLE 84**  
**Federally financed higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Private	2,146	66	13	1,247	160	587	17	15	0	41	0
Butler U.	741	0	0	695	5	25	16	0	0	0	0
DePauw U.	89	49	0	0	0	40	0	0	0	0	0
Earlham C.	8	0	0	8	0	0	0	0	0	0	0
Indiana Wesleyan U.	216	17	0	18	0	180	1	0	0	0	0
Manchester U.	134	0	0	134	0	0	0	0	0	0	0
Taylor U.	9	0	0	0	5	4	0	0	0	0	0
U. Evansville	144	0	0	0	144	0	0	0	0	0	0
Valparaiso U.	805	0	13	392	6	338	0	15	0	41	0
Iowa	748	0	72	88	0	452	136	0	0	0	0
Private	748	0	72	88	0	452	136	0	0	0	0
Coe C.	330	0	0	0	0	330	0	0	0	0	0
Cornell C.	264	0	42	67	0	19	136	0	0	0	0
Luther C.	154 i	0 i	30 i	21 i	0 i	103 i	0 i	0 i	0 i	0 i	0 i
Kansas	312	0	0	191	0	70	0	0	0	0	51
Public	312	0	0	191	0	70	0	0	0	0	51
Emporia State U.	312	0	0	191	0	70	0	0	0	0	51
Kentucky	136	0	0	84	0	0	0	0	52	0	0
Private	136	0	0	84	0	0	0	0	52	0	0
Centre C.	136	0	0	84	0	0	0	0	52	0	0
Louisiana	787	272	171	234	0	11	0	26	0	59	14
Public	694	272	171	184	0	8	0	0	0	59	0
Louisiana State U., Shreveport	273	263	0	8	0	2	0	0	0	0	0
McNeese State U.	17	0	0	0	0	0	0	0	0	17	0
Nicholls State U.	182	0	0	176	0	6	0	0	0	0	0
Southern U., New Orleans	222	9	171	0	0	0	0	0	0	42	0
Private	93	0	0	50	0	3	0	26	0	0	14
Loyola U., New Orleans	93	0	0	50	0	3	0	26	0	0	14
Maine	699	40	50	270	18	68	12	33	0	149	59
Public	699	40	50	270	18	68	12	33	0	149	59
U. Maine Farmington	699 i	40 i	50 i	270 i	18 i	68 i	12 i	33 i	0 i	149 i	59 i
Maryland	1,149	0	9	228	48	144	4	92	104	42	478

**TABLE 84**  
**Federally financed higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Public	336	0	9	122	48	19	4	92	0	42	0
Coppin State U.	212	0	0	122	48	0	0	0	0	42	0
St. Mary's C. Maryland	124	0	9	0	0	19	4	92	0	0	0
Private	813	0	0	106	0	125	0	0	104	0	478
Goucher C.	165	0	0	23	0	124	0	0	0	0	18
Loyola U., Maryland	339	0	0	83	0	1	0	0	104	0	151
Maryland Institute C. of Art	309	0	0	0	0	0	0	0	0	0	309
Massachusetts	4,595	710	263	1,268	93	640	143	287	0	536	655
Public	363	0	0	139	0	224	0	0	0	0	0
Bridgewater State U.	363	0	0	139	0	224	0	0	0	0	0
Private	4,232	710	263	1,129	93	416	143	287	0	536	655
Bentley U.	762	0	0	162	46	248	0	287	0	19	0
C. of the Holy Cross	425	0	0	335	0	90	0	0	0	0	0
Emerson C.	198	44	0	98	0	0	0	0	0	0	56
Hult International Business School	466 i	297 i	0 i	0 i	0 i	0 i	73 i	0 i	0 i	0 i	96 i
MCPHS U.	85	0	0	15	0	0	70	0	0	0	0
Merrimack C.	337	0	0	181	0	0	0	0	0	29	127
Simmons U.	466	255	0	206	0	0	0	0	0	0	5
Stonehill C.	526	0	263	0	0	0	0	0	0	0	263
Western New England U.	781	114	0	132	47	0	0	0	0	488	0
Wheaton C., Norton	186	0	0	0	0	78	0	0	0	0	108
Michigan	1,395	12	0	1,254	41	49	12	10	0	0	17
Public	1,170	0	0	1,136	34	0	0	0	0	0	0
Ferris State U.	565	0	0	531	34	0	0	0	0	0	0
Lake Superior State U.	605	0	0	605	0	0	0	0	0	0	0
Private	225	12	0	118	7	49	12	10	0	0	17
Kalamazoo C.	225 i	12 i	0 i	118 i	7 i	49 i	12 i	10 i	0 i	0 i	17 i
Minnesota	2,426	4	370	466	1	1,081	10	262	6	0	226
Public	410	4	28	161	1	8	10	2	0	0	196
Metropolitan State U.	85 i	4 i	6 i	58 i	1 i	8 i	2 i	2 i	0 i	0 i	4 i
Minnesota State U., Moorhead	222	0	22	0	0	0	8	0	0	0	192
U. Minnesota, Rochester	103	0	0	103	0	0	0	0	0	0	0

**TABLE 84**  
**Federally financed higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Private	2,016	0	342	305	0	1,073	0	260	6	0	30
Augsburg U.	408	0	199	0	0	203	0	0	6	0	0
Concordia C., Moorhead	35	0	0	4	0	31	0	0	0	0	0
Gustavus Adolphus C.	445	0	143	0	0	262	0	10	0	0	30
Hamline U.	320	0	0	54	0	16	0	250	0	0	0
Saint Mary's U. Minnesota	538	0	0	0	0	538	0	0	0	0	0
St. Catherine U.	270	0	0	247	0	23	0	0	0	0	0
Mississippi	1,229	90	135	447	25	143	35	29	147	118	60
Public	598	90	94	125	0	11	0	11	147	118	2
Delta State U.	219	0	94	125	0	0	0	0	0	0	0
Mississippi Valley State U.	379	90	0	0	0	11	0	11	147	118	2
Private	631	0	41	322	25	132	35	18	0	0	58
Millsaps C.	631	0	41	322	25	132	35	18	0	0	58
Missouri	1,079	0	0	542	100	25	130	0	0	3	279
Public	822	0	0	285	100	25	130	0	0	3	279
Missouri Western State U.	168	0	0	38	0	0	130	0	0	0	0
Northwest Missouri State U.	100	0	0	0	100	0	0	0	0	0	0
Southeast Missouri State U.	212	0	0	209	0	0	0	0	0	3	0
Truman State U.	46	0	0	21	0	25	0	0	0	0	0
U. Central Missouri	296	0	0	17	0	0	0	0	0	0	279
Private	257	0	0	257	0	0	0	0	0	0	0
A. T. Still U. of Health Sciences	257	0	0	257	0	0	0	0	0	0	0
Graduate School of the Stowers Institute for Medical Research	0	0	0	0	0	0	0	0	0	0	0
Montana	1,173	0	0	516	0	78	0	60	0	12	507
Public	1,173	0	0	516	0	78	0	60	0	12	507
Montana State U., Billings	429	0	0	268	0	0	0	60	0	0	101
Montana State U., Northern	148	0	0	107	0	29	0	0	0	12	0
Salish Kootenai C.	596	0	0	141	0	49	0	0	0	0	406
Nevada	1,339	0	132	1,017	101	89	0	0	0	0	0
Public	1,339	0	132	1,017	101	89	0	0	0	0	0
C. Southern Nevada	327	0	0	179	101	47	0	0	0	0	0

**TABLE 84**  
**Federally financed higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Nevada State C.	1,012	0	132	838	0	42	0	0	0	0	0
New Hampshire	421	0	255	166	0	0	0	0	0	0	0
Public	421	0	255	166	0	0	0	0	0	0	0
Plymouth State U.	421	0	255	166	0	0	0	0	0	0	0
New Jersey	916	160	32	299	34	0	0	391	0	0	0
Public	542	73	0	169	0	0	0	300	0	0	0
New Jersey City U.	169	0	0	169	0	0	0	0	0	0	0
Ramapo C. New Jersey	373	73	0	0	0	0	0	300	0	0	0
Private	374	87	32	130	34	0	0	91	0	0	0
Fairleigh Dickinson U.	248	87	7	113	0	0	0	41	0	0	0
Rider U.	126	0	25	17	34	0	0	50	0	0	0
New Mexico	673	12	0	309	0	0	0	11	0	341	0
Public	673	12	0	309	0	0	0	11	0	341	0
Eastern New Mexico U., Portales	323	0	0	309	0	0	0	11	0	3	0
Northern New Mexico C.	350	12	0	0	0	0	0	0	0	338	0
New York	7,349	1,994	11	1,394	146	1,262	886	171	0	153	1,332
Public	3,817	1,815	11	1,007	84	651	3	49	0	153	44
CUNY, Medgar Evers C.	470	16	0	210	58	186	0	0	0	0	0
SUNY, C. Cortland	340	0	0	250	0	75	0	0	0	0	15
SUNY, C. of Technology, Canton	1,794	1,794	0	0	0	0	0	0	0	0	0
SUNY, C. Old Westbury	87 i	5 i	0 i	43 i	3 i	12 i	3 i	7 i	0 i	0 i	14 i
SUNY, Cobleskill	243	0	0	100	0	0	0	0	0	143	0
SUNY, Delhi	132	0	0	132	0	0	0	0	0	0	0
SUNY, Empire State C.	0	0	0	0	0	0	0	0	0	0	0
SUNY, Farmingdale State C.	180	0	0	10	0	150	0	0	0	10	10
SUNY, Morrisville	0	0	0	0	0	0	0	0	0	0	0
SUNY, New Paltz	114	0	0	0	23	49	0	42	0	0	0
SUNY, Oneonta	24	0	11	8	0	0	0	0	0	0	5
SUNY, Potsdam	433	0	0	254	0	179	0	0	0	0	0
Private	3,532	179	0	387	62	611	883	122	0	0	1,288
Adelphi U.	2,089	0	0	31	5	52	829	0	0	0	1,172
Bard C.	67	33	0	0	0	20	14	0	0	0	0

**TABLE 84**  
**Federally financed higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Cooper Union	233	0	0	176	57	0	0	0	0	0	0
D'Youville C.	175	0	0	0	0	13	40	122	0	0	0
Iona C.	411	0	0	0	0	376	0	0	0	0	35
Northeast C. of Health Sciences	0	0	0	0	0	0	0	0	0	0	0
Siena C.	265	146	0	0	0	119	0	0	0	0	0
St. Bonaventure U.	215	0	0	103	0	31	0	0	0	0	81
Touro C.	77	0	0	77	0	0	0	0	0	0	0
Utica C.	0	0	0	0	0	0	0	0	0	0	0
North Carolina	243	0	0	0	0	243	0	0	0	0	0
Public	243	0	0	0	0	243	0	0	0	0	0
U. North Carolina, Pembroke	243	0	0	0	0	243	0	0	0	0	0
North Dakota	1,357	0	0	1,003	0	149	0	0	0	205	0
Public	952	0	0	803	0	149	0	0	0	0	0
Mayville State U.	513	0	0	364	0	149	0	0	0	0	0
Minot State U.	439	0	0	439	0	0	0	0	0	0	0
Private	405	0	0	200	0	0	0	0	0	205	0
United Tribes Technical C.	405	0	0	200	0	0	0	0	0	205	0
Ohio	2,908	30	490	1,223	22	485	215	13	0	176	254
Private	2,908	30	490	1,223	22	485	215	13	0	176	254
Baldwin Wallace U.	20	20	0	0	0	0	0	0	0	0	0
Denison U.	608	10	469	0	0	129	0	0	0	0	0
John Carroll U.	324	0	0	75	0	0	170	13	0	0	66
Kenyon C.	1,022	0	0	873	0	149	0	0	0	0	0
Ohio Northern U.	431	0	0	0	22	0	45	0	0	176	188
Ohio Wesleyan U.	275	0	0	275	0	0	0	0	0	0	0
Wittenberg U.	228	0	21	0	0	207	0	0	0	0	0
Oklahoma	814	0	92	511	8	47	0	25	131	0	0
Public	814	0	92	511	8	47	0	25	131	0	0
East Central U.	216	0	92	108	8	8	0	0	0	0	0
Northeastern State U.	179	0	0	179	0	0	0	0	0	0	0
Southwestern Oklahoma State U.	419	0	0	224	0	39	0	25	131	0	0
Oregon	612	17	0	12	0	261	0	178	11	37	96

**TABLE 84**  
**Federally financed higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Public	455	17	0	0	0	261	0	166	11	0	0
Eastern Oregon U.	143	0	0	0	0	143	0	0	0	0	0
Southern Oregon U.	312	17	0	0	0	118	0	166	11	0	0
Private	157	0	0	12	0	0	0	12	0	37	96
Linfield U.	67	0	0	4	0	0	0	0	0	0	63
U. Portland	90	0	0	8	0	0	0	12	0	37	33
Pennsylvania	6,749	164	785	2,034	511	584	120	358	32	938	1,223
Public	3,537	101	525	388	341	368	120	1	32	763	898
Bloomsburg U. Pennsylvania	137	11	8	0	0	0	113	1	0	0	4
East Stroudsburg U. Pennsylvania	538	0	0	126	0	0	0	0	0	0	412
Kutztown U. Pennsylvania	159	0	0	50	16	73	0	0	0	0	20
Millersville U. Pennsylvania	785	0	313	153	287	0	0	0	32	0	0
Pennsylvania State U., Abington	279	0	39	26	21	77	0	0	0	116	0
Pennsylvania State U., Altoona	225	0	0	0	0	0	0	0	0	225	0
Pennsylvania State U., Berks	293	0	0	0	0	218	0	0	0	60	15
Pennsylvania State U., Great Valley School of Graduate Professional Studies	457	26	0	0	17	0	7	0	0	286	121
Pennsylvania State U., Greater Allegheny	77	0	0	0	0	0	0	0	0	0	77
Pennsylvania State U., Lehigh Valley	159	0	159	0	0	0	0	0	0	0	0
Pennsylvania State U., New Kensington	129	64	0	0	0	0	0	0	0	65	0
Pennsylvania State U., Wilkes-Barre	249	0	0	0	0	0	0	0	0	0	249
Slippery Rock U. Pennsylvania	50	0	6	33	0	0	0	0	0	11	0
Private	3,212	63	260	1,646	170	216	0	357	0	175	325
Bryn Athyn C.	0	0	0	0	0	0	0	0	0	0	0
Delaware Valley U.	41	0	0	41	0	0	0	0	0	0	0
Dickinson C.	305	0	0	194	34	23	0	0	0	0	54
Gannon U.	61	0	0	0	0	0	0	0	0	61	0
Gettysburg C.	268	0	0	32	0	2	0	190	0	0	44
Juniata C.	229	0	24	135	0	0	0	0	0	30	40
La Salle U.	21	0	0	21	0	0	0	0	0	0	0
Lake Erie C. of Osteopathic Medicine	0	0	0	0	0	0	0	0	0	0	0
Moravian C.	90	0	0	0	89	0	0	1	0	0	0

**TABLE 84**  
**Federally financed higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Muhlenberg C.	28	0	0	28	0	0	0	0	0	0	0
Saint Francis U.	199	9	0	0	0	0	0	0	0	6	184
Salus U.	414	0	0	414	0	0	0	0	0	0	0
Susquehanna U.	20	0	0	0	0	0	0	17	0	0	3
U. Scranton	394	11	217	166	0	0	0	0	0	0	0
Ursinus C.	682	43	0	512	47	80	0	0	0	0	0
Widener U., Chester	351	0	19	103	0	2	0	149	0	78	0
Wilkes U.	109	0	0	0	0	109	0	0	0	0	0
Rhode Island	904	0	101	699	0	104	0	0	0	0	0
Private	904	0	101	699	0	104	0	0	0	0	0
Bryant U.	280	0	101	117	0	62	0	0	0	0	0
Salve Regina U.	624	0	0	582	0	42	0	0	0	0	0
South Carolina	1,820	65	54	737	35	434	0	15	0	480	0
Public	854	12	2	527	11	71	0	15	0	216	0
Francis Marion U.	174	0	0	97	6	71	0	0	0	0	0
U. South Carolina Upstate	216	0	0	0	0	0	0	0	0	216	0
U. South Carolina, Beaufort	464	12	2	430	5	0	0	15	0	0	0
Private	966	53	52	210	24	363	0	0	0	264	0
Benedict C.	725	53	52	210	24	122	0	0	0	264	0
Converse C.	241	0	0	0	0	241	0	0	0	0	0
South Dakota	646	0	236	410	0	0	0	0	0	0	0
Public	646	0	236	410	0	0	0	0	0	0	0
Northern State U.	173	0	0	173	0	0	0	0	0	0	0
Oglala Lakota C.	473	0	236	237	0	0	0	0	0	0	0
Tennessee	67	0	17	22	0	0	0	25	0	0	3
Public	22	0	0	22	0	0	0	0	0	0	0
U. Tennessee, Martin	22	0	0	22	0	0	0	0	0	0	0
Private	45	0	17	0	0	0	0	25	0	0	3
Sewanee: U. of the South	45	0	17	0	0	0	0	25	0	0	3
Texas	2,045	645	95	494	58	55	1	30	158	316	193
Public	1,465	645	95	282	58	0	0	4	158	30	193
Angelo State U.	20	0	0	20	0	0	0	0	0	0	0



**TABLE 84**  
**Federally financed higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Midwestern State U.	515	0	95	262	0	0	0	0	158	0	0
Texas A&M U.-Central Texas	653	645	0	0	8	0	0	0	0	0	0
Texas A&M U.-San Antonio	277	0	0	0	50	0	0	4	0	30	193
U. Houston system administration	0	0	0	0	0	0	0	0	0	0	0
Private	580	0	0	212	0	55	1	26	0	286	0
Austin C.	85	0	0	20	0	43	0	22	0	0	0
LeTourneau U.	217	0	0	0	0	0	0	0	0	217	0
McMurry U.	262	0	0	192	0	1	0	0	0	69	0
Parker U.	0	0	0	0	0	0	0	0	0	0	0
Southwestern U.	11	0	0	0	0	11	0	0	0	0	0
Texas Chiropractic C.	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
U. Dallas	5	0	0	0	0	0	1	4	0	0	0
Utah	2,101	166	704	434	0	569	0	10	82	136	0
Public	2,101	166	704	434	0	569	0	10	82	136	0
Southern Utah U.	650	0	542	50	0	33	0	0	0	25	0
Utah Valley U.	1,028	102	95	361	0	390	0	0	0	80	0
Weber State U.	423	64	67	23	0	146	0	10	82	31	0
Vermont	1,332	0	276	330	0	53	48	53	346	222	4
Private	1,332	0	276	330	0	53	48	53	346	222	4
Norwich U.	588	0	0	0	0	16	0	0	346	222	4
Saint Michael's C.	744	0	276	330	0	37	48	53	0	0	0
Virginia	2,150	664	26	486	1	62	0	63	4	54	790
Public	1,740	659	0	194	0	43	0	59	4	54	727
Longwood U.	412	0	0	0	0	0	0	2	4	0	406
Radford U.	253	0	0	194	0	2	0	57	0	0	0
Virginia Military Institute	1,075	659	0	0	0	41	0	0	0	54	321
Private	410	5	26	292	1	19	0	4	0	0	63
Eastern Mennonite U.	151	0	0	151	0	0	0	0	0	0	0
Roanoke C.	10	0	0	0	0	10	0	0	0	0	0
U. Lynchburg	86 i	5 i	3 i	65 i	1 i	9 i	0 i	1 i	0 i	0 i	2 i
Washington and Lee U.	163	0	23	76	0	0	0	3	0	0	61
Washington	2,525	39	154	719	5	593	17	361	0	36	601



TABLE 84

**Federally financed higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Pontifical Catholic U. Puerto Rico, Ponce	186	0	0	186	0	0	0	0	0	0	0
San Juan Bautista School of Medicine	448	0	0	448	0	0	0	0	0	0	0
U. Ana G. Mendez, Carolina	489	0	0	277	0	0	0	0	0	212	0
U. Ana G. Mendez, Cupey	598	0	0	165	0	232	0	0	0	0	201

i = imputed.

nec = not elsewhere classified; S&amp;E = science and engineering.

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2021.

**TABLE 85**  
**Higher education R&D expenditures received from and passed through to other U.S. higher education institutions, at institutions in the short form survey population, by state, institutional control, institution, and source of funds: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	Received as a subrecipient			Passed through to subrecipients		
	Total	Federally financed	Nonfederally financed	Total	Federally financed	Nonfederally financed
United States	20,448	19,372	1,076	2,878	2,371	507
Alabama						
Public						
Auburn U., Montgomery	52	52	0	0	0	0
U. North Alabama	45	45	0	0	0	0
U. West Alabama	219	219	0	0	0	0
Private						
Alabama C., Osteopathic Medicine	0	0	0	0	0	0
Oakwood U.	90	90	0	0	0	0
Arizona						
Public						
Dine C.	41	41	0	443	443	0
Arkansas						
Public						
Arkansas Tech U.	0	0	0	0	0	0
Southern Arkansas U.	0	0	0	0	0	0
Private						
Arkansas C. of Health Education	0	0	0	0	0	0
Hendrix C.	451	451	0	0	0	0
Ouachita Baptist U.	0	0	0	0	0	0
Philander Smith C.	42 i	42 i	0 i	0 i	0 i	0 i
California						
Private						
California Lutheran U.	0	0	0	0	0	0
Claremont School of Theology	0 i	0 i	0 i	0 i	0 i	0 i
Dominican U. California	49 i	49 i	0 i	0 i	0 i	0 i
Palo Alto U.	171	171	0	0	0	0
Pitzer C.	0	0	0	0	0	0
Point Loma Nazarene U.	0	0	0	0	0	0
Scripps C.	10 i	9 i	1 i	5 i	5 i	0 i
Southern California U. of Health Sciences	51	51	0	54	54	0
Westmont C.	80	80	0	0	0	0
Whittier C.	0	0	0	0	0	0

**TABLE 85**  
**Higher education R&D expenditures received from and passed through to other U.S. higher education institutions, at institutions in the short form survey population, by state, institutional control, institution, and source of funds: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	Received as a subrecipient			Passed through to subrecipients		
	Total	Federally financed	Nonfederally financed	Total	Federally financed	Nonfederally financed
Colorado						
Public						
Colorado Mesa U.	31	26	5	7	7	0
Metropolitan State U. of Denver	0	0	0	20	20	0
Western Colorado U.	2	2	0	0	0	0
Private						
Regis U.	14	14	0	13	13	0
Connecticut						
Public						
U.S. Coast Guard Academy	0	0	0	0	0	0
Western Connecticut State U.	0	0	0	64	64	0
Private						
Hartford International U. for Religion and Peace	0	0	0	0	0	0
Quinnipiac U.	63 i	60 i	3 i	43 i	40 i	3 i
Florida						
Public						
New C. Florida	21	21	0	0	0	0
Private						
Barry U.	87	8	79	0	0	0
Bethune-Cookman U.	192	192	0	0	0	0
Eckerd C.	15	12	3	0	0	0
Jacksonville U.	0	0	0	0	0	0
Keiser U.	0 i	0 i	0 i	0 i	0 i	0 i
Rollins C.	30	24	6	11	0	11
St. Thomas U.	0	0	0	0	0	0
Stetson U.	118	118	0	0	0	0
U. Tampa	9	7	2	0	0	0
Georgia						
Public						
Clayton State U.	292	268	24	0	0	0
Columbus State U.	0	0	0	0	0	0
Georgia C. and State U.	29	9	20	11	11	0
Georgia Gwinnett C.	9	9	0	0	0	0

**TABLE 85**  
**Higher education R&D expenditures received from and passed through to other U.S. higher education institutions, at institutions in the short form survey population, by state, institutional control, institution, and source of funds: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	Received as a subrecipient			Passed through to subrecipients		
	Total	Federally financed	Nonfederally financed	Total	Federally financed	Nonfederally financed
U. West Georgia	92	84	8	2	2	0
Valdosta State U.	37	37	0	0	0	0
Private						
Agnes Scott C.	10	10	0	0	0	0
Berry C.	27	27	0	37	37	0
Life U.	0	0	0	0	0	0
Idaho						
Public						
Lewis-Clark State C.	343	343	0	0	0	0
Private						
Northwest Nazarene U.	307	307	0	0	0	0
Illinois						
Public						
Chicago State U.	134	134	0	0	0	0
Eastern Illinois U.	68	68	0	0	0	0
Governors State U.	95	95	0	11	11	0
Private						
Augustana C.	20	20	0	0	0	0
Bradley U.	101	101	0	0	0	0
Elmhurst U.	0	0	0	100	100	0
Illinois C. of Optometry	0	0	0	0	0	0
Lake Forest C.	0	0	0	0	0	0
Indiana						
Public						
Indiana U., Kokomo	40	27	13	0	0	0
Indiana U., Northwest	48	48	0	0	0	0
Indiana U., Southeast	40	37	3	0	0	0
U. Southern Indiana	35	35	0	0	0	0
Private						
Butler U.	29	29	0	0	0	0
DePauw U.	0	0	0	0	0	0
Earlham C.	8	8	0	0	0	0
Indiana Wesleyan U.	18	17	1	8	8	0

**TABLE 85**  
**Higher education R&D expenditures received from and passed through to other U.S. higher education institutions, at institutions in the short form survey population, by state, institutional control, institution, and source of funds: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	Received as a subrecipient			Passed through to subrecipients		
	Total	Federally financed	Nonfederally financed	Total	Federally financed	Nonfederally financed
Manchester U.	0	0	0	0	0	0
Taylor U.	9	9	0	0	0	0
U. Evansville	0	0	0	0	0	0
Valparaiso U.	237	237	0	0	0	0
Iowa						
Private						
Coe C.	0	0	0	0	0	0
Cornell C.	0	0	0	0	0	0
Luther C.	59 i	57 i	2 i	0 i	0 i	0 i
Kansas						
Public						
Emporia State U.	153	153	0	0	0	0
Kentucky						
Private						
Centre C.	136	136	0	0	0	0
Louisiana						
Public						
Louisiana State U., Shreveport	273	273	0	0	0	0
McNeese State U.	27	17	10	0	0	0
Nicholls State U.	30	30	0	9	9	0
Southern U., New Orleans	156	156	0	0	0	0
Private						
Loyola U., New Orleans	36	36	0	0	0	0
Maine						
Public						
U. Maine Farmington	32 i	29 i	3 i	13 i	11 i	2 i
Maryland						
Public						
Coppin State U.	73	72	1	0	0	0
St. Mary's C. Maryland	4	4	0	0	0	0
Private						
Goucher C.	14	14	0	0	0	0
Loyola U., Maryland	83	83	0	118	0	118

**TABLE 85**  
**Higher education R&D expenditures received from and passed through to other U.S. higher education institutions, at institutions in the short form survey population, by state, institutional control, institution, and source of funds: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	Received as a subrecipient			Passed through to subrecipients		
	Total	Federally financed	Nonfederally financed	Total	Federally financed	Nonfederally financed
Maryland Institute C. of Art	130	88	42	0	0	0
Massachusetts						
Public						
Bridgewater State U.	130	130	0	0	0	0
Private						
Bentley U.	138	91	47	181	181	0
C. of the Holy Cross	22	22	0	2	2	0
Emerson C.	125	98	27	45	5	40
Hult International Business School	67 i	63 i	4 i	24 i	23 i	1 i
MCPHS U.	15	15	0	0	0	0
Merrimack C.	97	97	0	0	0	0
Simmons U.	5	5	0	0	0	0
Stonehill C.	363	363	0	0	0	0
Western New England U.	146	146	0	13	13	0
Wheaton C., Norton	78	78	0	0	0	0
Michigan						
Public						
Ferris State U.	37	37	0	0	0	0
Lake Superior State U.	69	69	0	0	0	0
Private						
Kalamazoo C.	0 i	0 i	0 i	0 i	0 i	0 i
Minnesota						
Public						
Metropolitan State U.	5 i	4 i	1 i	5 i	5 i	0 i
Minnesota State U., Moorhead	18	8	10	0	0	0
U. Minnesota, Rochester	14	14	0	0	0	0
Private						
Augsburg U.	195	195	0	0	0	0
Concordia C., Moorhead	0	0	0	30	30	0
Gustavus Adolphus C.	66	64	2	0	0	0
Hamline U.	54	54	0	119	119	0
Saint Mary's U. Minnesota	0	0	0	0	0	0
St. Catherine U.	51	23	28	33	0	33



**TABLE 85**  
**Higher education R&D expenditures received from and passed through to other U.S. higher education institutions, at institutions in the short form survey population, by state, institutional control, institution, and source of funds: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	Received as a subrecipient			Passed through to subrecipients		
	Total	Federally financed	Nonfederally financed	Total	Federally financed	Nonfederally financed
Mississippi						
Public						
Delta State U.	125	125	0	0	0	0
Mississippi Valley State U.	27	27	0	0	0	0
Private						
Millsaps C.	131	131	0	0	0	0
Missouri						
Public						
Missouri Western State U.	0	0	0	0	0	0
Northwest Missouri State U.	0	0	0	0	0	0
Southeast Missouri State U.	24	24	0	0	0	0
Truman State U.	60	46	14	0	0	0
U. Central Missouri	0	0	0	0	0	0
Private						
A. T. Still U. of Health Sciences	61	61	0	25	25	0
Graduate School of the Stowers Institute for Medical Research	0	0	0	0	0	0
Montana						
Public						
Montana State U., Billings	284	284	0	43	43	0
Montana State U., Northern	107	107	0	24	24	0
Salish Kootenai C.	95	95	0	20	20	0
Nevada						
Public						
C. Southern Nevada	335	327	8	0	0	0
Nevada State C.	775	775	0	50	50	0
New Hampshire						
Public						
Plymouth State U.	312	261	51	0	0	0
New Jersey						
Public						
New Jersey City U.	0	0	0	0	0	0
Ramapo C. New Jersey	0	0	0	0	0	0
Private						

**TABLE 85**  
**Higher education R&D expenditures received from and passed through to other U.S. higher education institutions, at institutions in the short form survey population, by state, institutional control, institution, and source of funds: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	Received as a subrecipient			Passed through to subrecipients		
	Total	Federally financed	Nonfederally financed	Total	Federally financed	Nonfederally financed
Fairleigh Dickinson U.	35	35	0	0	0	0
Rider U.	72	72	0	31	31	0
New Mexico						
Public						
Eastern New Mexico U., Portales	272	268	4	0	0	0
Northern New Mexico C.	162	162	0	0	0	0
New York						
Public						
CUNY, Medgar Evers C.	96	96	0	60	60	0
SUNY, C. Cortland	216	216	0	8	0	8
SUNY, C. of Technology, Canton	1,794	1,794	0	0	0	0
SUNY, C. Old Westbury	8 i	6 i	2 i	3 i	2 i	1 i
SUNY, Cobleskill	70	0	70	0	0	0
SUNY, Delhi	0	0	0	0	0	0
SUNY, Empire State C.	0	0	0	0	0	0
SUNY, Farmingdale State C.	10	10	0	0	0	0
SUNY, Morrisville	0	0	0	0	0	0
SUNY, New Paltz	28	10	18	13	13	0
SUNY, Oneonta	0	0	0	8	8	0
SUNY, Potsdam	0	0	0	5	5	0
Private						
Adelphi U.	227	227	0	7	7	0
Bard C.	0	0	0	0	0	0
Cooper Union	250	211	39	0	0	0
D'Youville C.	0	0	0	0	0	0
Iona C.	0	0	0	35	35	0
Northeast C. of Health Sciences	0	0	0	0	0	0
Siena C.	33	0	33	0	0	0
St. Bonaventure U.	0	0	0	38	38	0
Touro C.	77	77	0	0	0	0
Utica C.	0	0	0	0	0	0
North Carolina						
Public						

**TABLE 85**  
**Higher education R&D expenditures received from and passed through to other U.S. higher education institutions, at institutions in the short form survey population, by state, institutional control, institution, and source of funds: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	Received as a subrecipient			Passed through to subrecipients		
	Total	Federally financed	Nonfederally financed	Total	Federally financed	Nonfederally financed
U. North Carolina, Pembroke	0	0	0	0	0	0
North Dakota						
Public						
Mayville State U.	513	513	0	0	0	0
Minot State U.	487	439	48	0	0	0
Private						
United Tribes Technical C.	60	60	0	22	22	0
Ohio						
Private						
Baldwin Wallace U.	1	1	0	0	0	0
Denison U.	20	0	20	0	0	0
John Carroll U.	24	24	0	0	0	0
Kenyon C.	123	123	0	0	0	0
Ohio Northern U.	10	10	0	64	64	0
Ohio Wesleyan U.	28	0	28	0	0	0
Wittenberg U.	21	21	0	0	0	0
Oklahoma						
Public						
East Central U.	101	101	0	30	30	0
Northeastern State U.	175	159	16	0	0	0
Southwestern Oklahoma State U.	70	55	15	0	0	0
Oregon						
Public						
Eastern Oregon U.	0	0	0	0	0	0
Southern Oregon U.	41	34	7	54	54	0
Private						
Linfield U.	4	4	0	0	0	0
U. Portland	61	61	0	0	0	0
Pennsylvania						
Public						
Bloomsburg U. Pennsylvania	12	12	0	0	0	0
East Stroudsburg U. Pennsylvania	0	0	0	0	0	0
Kutztown U. Pennsylvania	70	70	0	0	0	0

**TABLE 85**  
**Higher education R&D expenditures received from and passed through to other U.S. higher education institutions, at institutions in the short form survey population, by state, institutional control, institution, and source of funds: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	Received as a subrecipient			Passed through to subrecipients		
	Total	Federally financed	Nonfederally financed	Total	Federally financed	Nonfederally financed
Millersville U. Pennsylvania	0	0	0	21	21	0
Pennsylvania State U., Abington	0	0	0	0	0	0
Pennsylvania State U., Altoona	165	165	0	0	0	0
Pennsylvania State U., Berks	17	17	0	0	0	0
Pennsylvania State U., Great Valley School of Graduate Professional Studies	0	0	0	0	0	0
Pennsylvania State U., Greater Allegheny	0	0	0	0	0	0
Pennsylvania State U., Lehigh Valley	0	0	0	0	0	0
Pennsylvania State U., New Kensington	129	129	0	126	126	0
Pennsylvania State U., Wilkes-Barre	0	0	0	0	0	0
Slippery Rock U. Pennsylvania	11	11	0	3	3	0
Private						
Bryn Athyn C.	0	0	0	0	0	0
Delaware Valley U.	20	20	0	0	0	0
Dickinson C.	232	173	59	0	0	0
Gannon U.	139	3	136	0	0	0
Gettysburg C.	0	0	0	161	10	151
Juniata C.	27	27	0	9	9	0
La Salle U.	21	21	0	0	0	0
Lake Erie C. of Osteopathic Medicine	0	0	0	0	0	0
Moravian C.	1	1	0	0	0	0
Muhlenberg C.	0	0	0	0	0	0
Saint Francis U.	0	0	0	0	0	0
Salus U.	0	0	0	0	0	0
Susquehanna U.	0	0	0	0	0	0
U. Scranton	0	0	0	0	0	0
Ursinus C.	43	43	0	0	0	0
Widener U., Chester	50	50	0	0	0	0
Wilkes U.	0	0	0	0	0	0
Rhode Island						
Private						
Bryant U.	235	235	0	0	0	0
Salve Regina U.	624	624	0	0	0	0
South Carolina						

**TABLE 85**  
**Higher education R&D expenditures received from and passed through to other U.S. higher education institutions, at institutions in the short form survey population, by state, institutional control, institution, and source of funds: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	Received as a subrecipient			Passed through to subrecipients		
	Total	Federally financed	Nonfederally financed	Total	Federally financed	Nonfederally financed
Public						
Francis Marion U.	16	0	16	0	0	0
U. South Carolina Upstate	24	24	0	9	9	0
U. South Carolina, Beaufort	38	38	0	0	0	0
Private						
Benedict C.	133	133	0	7	7	0
Converse C.	172	172	0	0	0	0
South Dakota						
Public						
Northern State U.	173	173	0	0	0	0
Oglala Lakota C.	0	0	0	0	0	0
Tennessee						
Public						
U. Tennessee, Martin	0 i	0	0 i	0	0	0
Private						
Sewanee: U. of the South	2	2	0	0	0	0
Texas						
Public						
Angelo State U.	0	0	0	83	0	83
Midwestern State U.	8	8	0	0	0	0
Texas A&M U.-Central Texas	15	15	0	257	257	0
Texas A&M U.-San Antonio	90	84	6	0	0	0
U. Houston system administration	0	0	0	0	0	0
Private						
Austin C.	12	12	0	0	0	0
LeTourneau U.	0	0	0	0	0	0
McMurry U.	0	0	0	0	0	0
Parker U.	0	0	0	0	0	0
Southwestern U.	11	11	0	0	0	0
Texas Chiropractic C.	0 i	0 i	0 i	0 i	0 i	0 i
U. Dallas	50	5	45	0	0	0
Utah						
Public						

**TABLE 85**  
**Higher education R&D expenditures received from and passed through to other U.S. higher education institutions, at institutions in the short form survey population, by state, institutional control, institution, and source of funds: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	Received as a subrecipient			Passed through to subrecipients		
	Total	Federally financed	Nonfederally financed	Total	Federally financed	Nonfederally financed
Southern Utah U.	9	9	0	0	0	0
Utah Valley U.	19	19	0	76	61	15
Weber State U.	83 i	77 i	6 i	0 i	0 i	0 i
Vermont						
Private						
Norwich U.	610	588	22	0	0	0
Saint Michael's C.	606	606	0	0	0	0
Virginia						
Public						
Longwood U.	0	0	0	0	0	0
Radford U.	85	78	7	37	26	11
Virginia Military Institute	0	0	0	0	0	0
Private						
Eastern Mennonite U.	0	0	0	0	0	0
Roanoke C.	0	0	0	0	0	0
U. Lynchburg	8 i	7 i	1 i	7 i	6 i	1 i
Washington and Lee U.	1	1	0	2	2	0
Washington						
Public						
Evergreen State C.	27	27	0	0	0	0
Private						
Gonzaga U.	46	46	0	0	0	0
Pacific Lutheran U.	35	35	0	0	0	0
Saint Martin's U.	0	0	0	0	0	0
Seattle Pacific U.	280	280	0	5	5	0
U. Puget Sound	58	58	0	0	0	0
Whitman C.	48	48	0	29	0	29
Whitworth U.	16	16	0	0	0	0
West Virginia						
Public						
Bluefield State C.	265	265	0	0	0	0
West Liberty U.	333	333	0	0	0	0
Private						

**TABLE 85**  
**Higher education R&D expenditures received from and passed through to other U.S. higher education institutions, at institutions in the short form survey population, by state, institutional control, institution, and source of funds: FY 2021**

(Dollars in thousands)

State, institutional control, and institution	Received as a subrecipient			Passed through to subrecipients		
	Total	Federally financed	Nonfederally financed	Total	Federally financed	Nonfederally financed
Future Generations U.	0 i	0 i	0 i	0 i	0 i	0 i
U. Charleston	215	215	0	0	0	0
Wisconsin						
Public						
U. Wisconsin-Stout	36	7	29	0	0	0
U. Wisconsin-Whitewater	130	130	0	0	0	0
Private						
Alverno C.	0	0	0	0	0	0
Concordia U., Wisconsin	52	52	0	85	85	0
Lawrence U.	38	38	0	0	0	0
St. Norbert C.	0	0	0	0	0	0
Puerto Rico						
Public						
U. Puerto Rico, Aguadilla	31	0	31	0	0	0
U. Puerto Rico, Ponce	0	0	0	0	0	0
Private						
Polytechnic U. Puerto Rico	0	0	0	0	0	0
Pontifical Catholic U. Puerto Rico, Ponce	148	148	0	0	0	0
San Juan Bautista School of Medicine	0	0	0	0	0	0
U. Ana G. Mendez, Carolina	37	37	0	0	0	0
U. Ana G. Mendez, Cupey	455	455	0	0	0	0

i = imputed.

**Note(s):**

Institutions are included in the short form population if they reported less than \$1 million in total R&amp;D expenditures during the previous fiscal year.

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2021.

## Technical Notes

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### Survey Overview (FY 2021 Survey Cycle)

*Purpose.* The Higher Education Research and Development (HERD) Survey is the primary source of information on separately accounted-for R&D expenditures within higher education institutions in the United States and outlying areas.

*Data collection authority.* The information is solicited under the authority of the National Science Foundation Act of 1950, as amended, and the America COMPETES Reauthorization Act of 2010. The Office of Management and Budget control number is 3145-0100, with an expiration date of 31 August 2022.

*Survey contractor.* ICF.

*Survey sponsor.* The HERD Survey is sponsored by the National Center for Science and Engineering Statistics (NCSES) within the National Science Foundation.

### Key Survey Information

*Frequency.* Annual.

*Initial survey year.* In 2010, the HERD Survey replaced a previous annual collection, the Survey of Research and Development Expenditures at Universities and Colleges (Academic R&D Expenditures Survey), which was conducted from FY 1972 through FY 2009.

*Reference period.* The academic fiscal year ending in 2021; for most institutions, this was 1 July 2020 to 30 June 2021.

*Response unit.* Establishment; U.S. academic institutions reporting at least \$150,000 in R&D expenditures in the previous fiscal year.

*Sample or census.* Census.

*Population size.* A total of 910 institutions.

*Sample size.* The survey was a census of all known eligible universities and colleges.

### Survey Design

*Target population.* Public and private nonprofit postsecondary institutions in the United States, Guam, Puerto Rico, and the U.S. Virgin Islands that granted a bachelor's degree or higher in any field; expended at least \$150,000 in separately accounted-for R&D in FY 2021; and were geographically separate campuses headed by a president, chancellor, or equivalent. A list of all accredited, degree-granting institutions in the United States (the *Higher Education Directory*) was obtained from Higher Education Publications (HEP). More information about HEP and its sources can be found at <https://hepinc.com/about/>.

The survey population was reviewed before data collection began to ensure that each institutional classification was accurate. Characteristics of the schools were reviewed before and during the survey to determine whether changes had occurred (e.g., name; highest degree granted; school openings, closings, or mergers). [Table A-1](#) shows all institution name changes or mergers between the FY 2020 and FY 2021 surveys.



After data collection closed, institutions were reviewed to verify that only those reporting at least \$150,000 in separately-accounted-for R&D were included in the population. Of the 935 institutions surveyed, 25 completed the survey but reported total R&D expenditures of less than \$150,000. These institutions were excluded from the population, and their data are not included in the FY 2021 survey totals. The total and federally funded R&D expenditures for these 25 institutions are listed in [table A-2](#).

*Sampling frame.* The frame for the FY 2021 HERD Survey included (1) all institutions considered in scope for the FY 2020 survey, (2) institutions that granted a bachelor's degree or higher and reported an amount greater than \$0 for research on the Integrated Postsecondary Education Data System (IPEDS) 2019 Finance Survey, (3) all U.S. service institutions that granted a bachelor's degree or higher and were not already part of the HERD Survey population, and (4) institutions that granted doctoral degrees but did not report to IPEDS and were not already part of the HERD Survey population. The information in the *Higher Education Directory* was used to locate institutions meeting the conditions listed in 3 and 4. When FY 2020 R&D expenditures were not known, institutions in the frame were sent a brief questionnaire asking whether the institution had R&D expenditures during FY 2020 and FY 2021 and whether those expenditures were less than \$150,000, were \$150,000 to \$999,999, or were \$1 million or more.

The population review screener was sent to 141 institutions. A total of 18 institutions were added to the survey population during the population review. Eight other institutions were added when representatives of university systems contacted data collection staff about campuses that newly qualified for the survey. During data collection, 31 institutions were removed from the population after they indicated that their R&D expenditures were less than \$150,000 for FY 2021, or that they did not qualify for the survey for another reason. After accounting for these additions and subtractions, the number of academic institutions in the final population decreased from 915 in FY 2020 to 910 in FY 2021 ([table A-3](#)).

*Sample design.* The FY 1997 survey was the last one conducted as a sample survey. Since FY 1998, the survey has been a census of all known eligible universities and colleges.

## Data Collection and Processing Methods

*Data collection.* The FY 2021 survey questionnaires were sent by e-mail in November 2021. Respondents could choose to submit a questionnaire downloaded from the Web or use a Web-based data collection system to respond to the survey. Every effort was made to maintain close contact with respondents to preserve both the consistency and continuity of the resulting data. Survey data reports for each institution were available on the survey website; these showed comparisons between the current and 2 prior years of data and noted any substantive disparities. Questionnaires were carefully examined for completeness upon receipt. Respondents were sent personalized e-mail messages asking them to provide any necessary revisions before the final processing and tabulation of data. These e-mail messages included a link to the HERD Survey Web-based data collection system, allowing respondents to view and correct their data online.

Respondents were asked to explain significant differences between current-year reporting and established patterns of reporting verified for prior years. They were encouraged to correct prior-year data, if necessary. When respondents updated or amended figures from past years, NCSSES made corresponding changes to trend data in the 2021 data tables and to the underlying microdata. For accurate historical data, use only the most recently released data tables.

*Mode.* Respondents could choose to submit a questionnaire downloaded from the Web or use the Web-based data collection system to respond to the survey. All institutions submitted data using the Web-based survey.

*Response rates.* By the survey's closing date in August 2022, forms had been received from 865 universities and colleges out of a population of 910, a response rate of 95.1%. Responses were received from 97.3% of all doctorate-granting institutions. The R&D expenditures reported by these doctoral institutions constituted 99.1% of the estimated national R&D expenditures for FY 2021. [Table A-4](#) displays a detailed breakdown of response rates by survey form and highest degree granted, and [table A-5](#) displays a breakdown of response rates for each survey question.

*Data editing.* The HERD Survey was subject to very little editing. Respondents were contacted and asked to resolve possible self-reporting issues themselves. Questionnaires were carefully examined by survey staff upon receipt. Reviews focused on unexplained missing data, expenditures that were outliers compared to those of peer institutions, and explanations provided for changes in reporting patterns. If additional explanations or data revisions were needed, respondents were sent personalized e-mail messages asking them to provide any necessary revisions before the final processing and tabulation of data.

*Imputation.* Missing values were imputed based on the previous year's data and the reported data of peer institutions in the current cycle. For the 43 institutions that had not responded by the closing date of the survey and had been included in the FY 2020 HERD Survey population, R&D expenditures were imputed by applying inflator and deflator factors to the prior year's key totals. The key totals for FY 2021 included total R&D expenditures, federal R&D expenditures, expenditures received as a subrecipient from higher education sources, expenditures received as a subrecipient from non-higher education sources, expenditures passed through to higher education entities, and expenditures passed through to non-higher education entities. Imputation factors were ratios derived from the 2-year-trend data of responding institutions with similar characteristics, including highest degree granted, type of institutional control (public or private), and level of total R&D expenditures. Other values that were not identified as key totals were imputed by applying ratios from the previous year's data.

For two institutions that were new to the survey population, no past-year data were available. For these institutions, total R&D expenditures were assumed to be \$150,000 or \$1,000,000 based on the institutions' responses to the population review screener. Other values were then imputed as a proportion of total R&D expenditures based on the data of institutions with similar characteristics. Data for partial nonresponse were imputed using similar techniques.

[Table A-6](#) through [table A-18](#) present imputed amounts for each applicable survey variable. The dollar amount imputed is displayed, along with the percentage it represents of the national estimate for universities and colleges for a variable. The imputed total R&D was \$106 million, or 0.1%, of the \$89.9 billion in total R&D expenditures ([table A-6](#)).

Several surveyed institutions have responded intermittently in past years. For years in which no response was received, data have been imputed as previously described. Although the imputation algorithm accurately reflects national trends, it cannot account for specific trends at individual institutions. For this reason, a re-imputation of institutional data for prior years is also performed. For each institution, previously imputed values from the HERD Survey (FYs 2010–20) were recomputed to ensure that the imputed data are consistent with reporting patterns from the FY 2021 survey. These procedures result in much more consistent reporting trends for individual institutions but have little effect on aggregate figures reflecting national totals. In the data tables, the letter *i* is used to identify imputed data.

R&D expenditures from unspecified federal agencies (Question 10) and capitalization thresholds for software and equipment (Question 13) were not imputed. Response summaries for these questions can be found in [table A-19](#) and [table A-20](#).

*Weighting.* Survey data were not weighted.

*Variance estimation.* No variance estimation techniques were used.

## Survey Quality Measures

*Sampling error.* Because the FY 2021 survey was distributed to all institutions in the universe, there was no sampling error.

*Coverage error.* Coverage error of large research institutions is minimal because of comprehensive lists. These institutions are easily identified using the NCSES Survey of Federal Science and Engineering Support to Universities, Colleges, and Nonprofit Institutions. However, institutions with smaller amounts of R&D expenditures have been more difficult to identify because they often do not receive federal funding for science and engineering (S&E) R&D.

*Nonresponse error.* Forty-five universities and colleges did not respond in FY 2021, out of a total of 910 eligible institutions, for a nonresponse rate of 4.9%. [Table A-4](#) displays a detailed breakdown of response rates by survey population and highest degree granted.

The item nonresponse rates for questions recurring from FY 2019 varied from 0.0% for Question 1, total R&D expenditures by source of funds; Question 9, federal expenditures by R&D field; and for Question 11, R&D expenditures from nonfederal sources, to 6.8% for Question 6, R&D expenditures by type of R&D (basic research, applied research, and experimental development). Questions 15 and 16, which were new or greatly revised from FY 2019, had nonresponse rates of 13.4% and 32.6% respectively. [Table A-5](#) displays a breakdown of response rates for each question in each of the two surveys. See section “Imputation” for mitigation of item nonresponses. [Table A-6](#) through [table A-18](#) present imputed amounts for each applicable survey variable.

*Measurement error.* The most likely source of measurement error is institutional records containing categories different from those on the survey. For example, institutions were asked to report all R&D expenditures by field. The NCSSES-designed fields do not always translate to an institution’s departmental structure, and adjustments must be made by the institution in order to complete the survey. Fields were revised for the FY 2016 survey to better reflect the R&D currently being conducted at universities and colleges and make HERD Survey fields more consistent with those used by other NCSSES surveys as well as with the National Center for Education Statistics’ Classification of Instructional Programs (CIP) codes. Details of this change are included in the methodology report and technical notes for the FY 2016 survey. Minor revisions were also made in FY 2020.

Another source of error is the survey’s category of institutionally funded research. The survey requests that institutions report discretionary internal funds used for research. NCSSES discovered through debriefings conducted at the conclusion of the FY 2010 survey that there were varying definitions of what should be included on the HERD Survey as institutionally funded research. Some institutions included all expenditures from separate accounts designated for research; others included only internal R&D projects that are competitively awarded and have detailed budgets. A workshop was held in summer 2012 to discuss these differences in definitional interpretation. Based on the findings from the workshop, the FY 2012 survey was modified to clarify that all expenditures designated for research can be included in this category. This includes expenditures for organized research and expenditures of other funds designated for research but not categorized as organized research. A checklist question (Question 1.1) was also added to encourage the inclusion of all eligible expenditures and to determine the full extent of the variations in reporting across institutions. This question has been on the survey since FY 2012. An analysis of Question 1.1 responses from FY 2016 indicated that most institutions that reported some institutionally funded R&D were including research funds that would not be considered organized research (e.g., 77% included startup funds, bridge funding, or seed funding, and 79% included other departmental funds designated for research). However, many institutions reported that they still could not report institutionally funded research that was not organized research because those funds were not separately accounted for. Therefore, survey totals are missing expenditures for R&D that come from multipurpose accounts, and as such, they represent an undercount of the total amount of internal discretionary funding that institutions make available to conduct R&D.

The reporting of unrecovered indirect costs is another known source of error. The survey requests that the total amount of indirect costs associated with a research grant or contract be calculated and reported, including costs that were not reimbursed by the external funding source. The unrecovered indirect cost is calculated by multiplying the institution’s negotiated indirect cost rate by the corresponding base and then subtracting the actual indirect cost recovery, preferably on a project-by-project basis. In FY 2021, 5.4% of respondents reported unrecovered indirect costs as unavailable. Respondents who were unable to provide values were asked to provide information on their nonresponse. Based on the collected information, survey guidance is revised to encourage response.

It should also be noted that because institutions were asked to include funds passed through to higher education institutions as well as subrecipient funding from higher education institutions, there is double counting included in national and group totals. For example, Institution A's survey included the \$2 million passed through to Institution B, and Institution B's survey also included the \$2 million in subrecipient funding that it received from Institution A. Overall, institutions reported \$4.2 billion in expenditures from subrecipient funding received from other universities in FY 2021 and \$4.1 billion in funds passed through to higher education subrecipients in FY 2021. Adjustments are made to R&D totals presented in the NCSES *National Patterns of R&D Resources* publications (<https://www.nsf.gov/statistics/natlpatterns/>).

## Data Comparability (Changes)

Annual data are available for FYs 1972–2021. When the review for consistency between each year's data and submissions in prior years reveals discrepancies, it is sometimes necessary to modify prior years' data. This is especially likely to affect trends for certain institutions that fail to report every year, because current-year data are used to impute prior-year data. For accurate historical data, use only the most recently released data tables. Individuals wishing to analyze trends other than those in the most recent data tables are encouraged to contact the Survey Manager for more information about comparability of data over time.

*Changes in survey coverage and population.* Before FY 2010, the population included only institutions with R&D expenditures and degree programs in S&E fields. Institutions that performed R&D in only non-S&E fields were excluded from the population. Although not a change in the coverage or population, each campus headed by a campus-level president, chancellor, or equivalent began completing a separate survey in 2010 rather than combining its response with the responses of other campuses in the university system. As a result, the overall number of academic institutions in the population increased from 711 in FY 2009 to 742 in FY 2010.

To compare HERD Survey data across university systems by aggregating member campuses, [table 6](#) shows all institutions in the FY 2021 population, including short-form survey institutions, by state, institutional control, and system.

Universities and colleges can merge or separate, possibly resulting in large changes in data from previous years.

- FYs 2015–20. For FY 2015, the Indiana University School of Medicine (IUSM) reporting line was changed from the Chancellor of the Indiana University-Purdue University, Indianapolis (IUPUI) campus to the President of Indiana University. As such, the research expenditures for IUSM are now included in the Indiana University–Bloomington figures, resulting in an increase in total R&D expenditures of approximately \$280 million for this campus. IUPUI total R&D expenditures decreased from \$324 million in FY 2014 to \$56 million in FY 2015. In September 2015, Yeshiva University relinquished control of Albert Einstein College of Medicine to Montefiore Health System. As a result, FY 2016 data for Yeshiva University included only 2 months (July–August 2015) of R&D expenditures from the college of medicine. Albert Einstein College of Medicine reported separately for its entire FY 2016 (January–December 2016). Because of this change, FY 2016 research expenditures for Yeshiva University decreased by \$260 million. For FY 2017, Yeshiva University included no expenditures from the college of medicine, and total research expenditures decreased by \$43 million. In 2016, the Maryland General Assembly approved legislation to create a strategic partnership between University of Maryland (UMD) College Park and UMD Baltimore. The two schools began reporting as one unit, University of Maryland, in FY 2019. In FY 2018, UMD Baltimore reported over \$475 million in total R&D expenditures, and UMD College Park reported over \$540 million in total R&D expenditures. In FY 2019, the new combined institution reported \$1,096 million in total R&D expenditures. In 2019, University of Tennessee reorganized University of Tennessee, Knoxville, Institute of Agriculture, and University of Tennessee, Knoxville. The two schools began reporting as one unit, University of Tennessee, Knoxville, in FY 2020. In FY 2019, University of Tennessee, Institute of Agriculture reported over \$71 million in total R&D expenditures, and University of Tennessee, Knoxville reported over \$240 million in total R&D expenditures. In FY 2020, the new combined institution reported \$320 million in total R&D expenditures.

- FY 2021. In FY 2021 the University of South Florida consolidated its three separate institutions, University of South Florida, Tampa; University of South Florida, St. Petersburg; and University of South Florida, Sarasota-Manatee into one, singularly-accredited university. The three schools began reporting as one unit, University of South Florida, in FY 2021. In FY 2020, University of South Florida, Tampa reported over \$333 million in total R&D expenditures, University of South Florida, St. Petersburg reported over \$18 million in total R&D expenditures, and University South Florida, Sarasota-Manatee reported over \$2 million in total R&D expenditures. In FY 2021, the new combined institution reported over \$405 million in total R&D expenditures. In FY 2021 the University of Colorado Denver and Anschutz Medical Campus began reporting to the survey separately. Prior to FY 2021 the two campuses reported as one unit. In FY 2020, the combined unit reported over \$554 million in total R&D expenditures. In FY 2021, University of Colorado Anschutz Medical Campus reported over \$562 million in total R&D expenditures and University of Colorado Denver reported over \$18 million in total R&D expenditures.

*Changes in questionnaire.* Tables include data from the Academic R&D Expenditures Survey (FYs 1972–2009) and the HERD Survey (FYs 2010–20). Analysts should be cautious when examining trend data. Although many variables are similar across the two surveys because of clarification of which funds are to be included in the definition of R&D and the inclusion of non-S&E expenditures, exact comparisons may be misleading. In prior years, the Academic R&D Expenditures Survey collected expenditures for S&E and non-S&E fields separately. Institutions were not always able to provide non-S&E expenditures, and those data were not imputed previously. Also, revisions to the instructions on what types of activities are included as R&D in 2010 may have influenced reported values to varying degrees, depending on the numbers of clinical trials and training grants at an institution. Specific changes are described below:

- For the FY 2012 data collection, NCSES modified the survey instructions to clarify what types of institutionally funded activities should be included in reported data. The instructions explained that all expenditures for R&D from an institution's current operating funds that are separately accounted for should be reported. This includes expenditures separately budgeted for organized research and expenditures of other funds designated for research but not categorized as organized research. The instructions also specified that funds from an institution's 501(c)3 foundation should be reported under institutionally financed research.
- For the FY 2013 collection, the instructions were revised to clarify that funds from foreign and U.S. universities and colleges should be reported under All other sources (Question 1, row f). The instructions also specified that gifts designated by donors for research should be included in Question 1, row f.
- Several changes were made to the FY 2016 questionnaire:
  - Question 16 on the FY 2015 questionnaire, regarding the number of postdocs paid from R&D expenditures, was removed from the survey. Question 2, regarding foreign funding of R&D, was expanded to identify sources of foreign funding. The question now collects R&D expenditures funded by foreign governments, businesses, nonprofit organizations, and higher education (see the definition *foreign sources* for additional information).
  - Questions 9, 11, and 14 include revisions to the fields of R&D that better reflect the R&D currently being conducted at universities and colleges. The revisions make the HERD Survey fields more consistent with those used by other NCSES surveys as well as with the CIP codes.
- For the FY 2017 collection, the instructions were revised to clarify that funding from federally funded R&D centers (FFRDCs) should be reported as direct federal funding from the FFRDC's sponsoring agency.
- For the FY 2018 collection, the instructions were revised to clarify that expenditures for institution research administration and support (e.g., office of sponsored programs) should be excluded from the institutionally financed research totals.

- Several changes were made to the FY 2020 questionnaire:
  - Question 15, which asked for a headcount of research personnel, was revised to ask for a headcount by three R&D functions: researchers, R&D technicians, and R&D support staff (see the definition *R&D functions* for additional information). Subfields for sex, citizenship status, and education level were collected for those functioning as researchers.
  - Question 16, which asked for the full-time equivalents (FTEs) by three R&D functions, was added to the survey.
  - Institutions were given guidance to include throughout the survey equipment-only R&D awards, such as Major Research Instrumentation grants.
  - Questions 9, 11, and 14 include revisions to the fields of R&D that better reflect the R&D currently being conducted at universities and colleges. The revisions make the HERD Survey fields more consistent with those used by other NCSES surveys.

*Changes in reporting procedures or classification.* In order to reduce the burden for institutions with minimal amounts of R&D expenditures, NCSES introduced a shorter version of the HERD Survey, beginning with the FY 2012 collection. The short-form survey includes four core questions. For the FY 2021 cycle, the short-form population included 262 institutions that reported R&D expenditures between \$150,000 and \$1 million during FY 2020. The remainder of the institutions (648) received the full version of the survey.

Short-form survey data for FYs 2012–2021 appear only in those tables that specify in their title that the data presented include data from the short-form version of the survey. Data from the short-form survey population are included in the year totals prior to FY 2012, aggregated under “all other surveyed institutions.” The total FY 2021 R&D expenditures reported by institutions in the short-form survey population (\$149 million) represent 0.2% of the expenditures reported by all institutions (\$89.9 billion).

## Definitions

- *Clinical trials.* Research studies designed to answer specific questions about the effects of drugs, vaccines, medical devices, tests, treatments, or other therapies for patients. Clinical trials are used to determine safety and effectiveness. Includes Phase I, Phase II, and Phase III clinical trials with human patients but excludes Phase IV clinical trials.
- *Contracts.* Legal commitments in which a good or service was provided by the reporting institution and benefited the sponsor. The sponsor specified the deliverables and gained the rights to the results.
- *Federal agency.* Any agency of the U.S. government. Expenditures were reported by six specific agency funding sources (the Department of Agriculture; Department of Defense; Department of Energy; Department of Health and Human Services, including the National Institutes of Health; National Aeronautics and Space Administration; and National Science Foundation). Any expenditures funded by other federal agencies were reported under Other. The names of agencies included in the Other category are also requested.
- *Fields of R&D.* A list of the 40 fields of R&D reported on can be found on the survey questionnaire. In the data tables, the fields are grouped into 10 major areas: computer and information sciences; engineering; geosciences, atmospheric sciences, and ocean sciences; life sciences; mathematics and statistics; physical sciences; psychology; social sciences; other sciences; and non-science and engineering.
- *Fiscal year.* Institution’s financial year.
- *Foreign sources:*
  - *Foreign government.* All levels of foreign government, including national, regional, municipal, or other local government.

- *Business*. Foreign for-profit organizations. Projects sponsored by a U.S. location of a foreign company were not considered foreign. Funds from a company's nonprofit foundation were not reported here; they were reported under Nonprofit organizations.
- *Nonprofit organizations*. Foreign nonprofit foundations and organizations, except higher education institutions. Funds from foreign universities were reported under Higher education.
- *Higher education*. Foreign colleges and universities and units owned, operated, and controlled by such institutions.
- *All other sources*. International governmental organizations located in the United States, such as the United Nations, the World Bank, and the International Monetary Fund, and all other entities sending funds to the United States from a location outside the United States and its territories.
- *Full-time equivalents (FTEs)*. Calculated as the total working effort spent on research during a specific period divided by the total effort representing a full-time schedule within the same period.
- *Medical schools*. A medical school awards MD or DO degrees. Expenditures from projects assigned to the medical school or to research centers that were organizationally part of the medical school were included.
- *Pass-through entity*. Organizations that pass through grant or contract funds to subrecipient organizations. Vendor relationships were not included.
- *Research and development (R&D)*. R&D activity is creative and systematic work undertaken in order to increase the stock of knowledge—including knowledge of humankind, culture, and society—and to devise new applications of available knowledge. R&D covers three activities: basic research, applied research, and experimental development. R&D does not include public service or outreach programs, curriculum development (unless included as part of an overall research project), or non-research training grants. R&D as measured on this survey does not include capital projects (i.e., construction or renovation of research facilities).
- *R&D expenditures*. Expenditures for R&D activities from the institution's current operating funds that were separately accounted for. For the purposes of the survey, R&D includes expenditures for organized research as defined by 2 CFR 220 Part 200 Appendix III and expenditures from funds designated for research. Expenditures came from internal or external funding and included recovered and unrecovered indirect costs. Funds passed through to subrecipient organizations were also included. R&D was excluded if it was conducted by university faculty or staff at outside institutions and was not accounted for in the reporting institution's financial records.
- *R&D functions*:
  - *Researchers*. Professionals engaged in the conception or creation of new knowledge, products, processes, methods, and systems and also in the management of the projects concerned. Researchers contribute more to the creative aspects of R&D, whereas technicians provide technical support.
  - *R&D technicians*. Persons whose main tasks require technical knowledge and experience in one or more fields of science or engineering, but who contribute to R&D by performing technical tasks such as computer programming, data analysis, ensuring accurate testing, operating lab equipment, and preparing and processing samples under the supervision of researchers.
  - *R&D support staff*. Employees who are not directly involved with the conduct of a research project, but who support the researchers and technicians. These employees might include clerical staff, financial and personnel administrators, report writers, patent agents, safety trainers, equipment specialists, and other related employees.
- *Sources of funds*:
  - *U.S. federal government*. Any agency of the U.S. government. Federal funds that were passed through to the reporting institution from another institution were included.

- *State and local government.* Any state, county, municipality, or other local government entity in the United States, including state health agencies. State funds that supported R&D at agricultural and other experiment stations were included. Public institutions reported state appropriations restricted for R&D activities in this category.
- *Business.* Domestic or foreign for-profit organizations. Funds from a company's nonprofit foundation were not reported here; they were reported under Nonprofit organizations.
- *Nonprofit organizations.* Domestic or foreign nonprofit foundations and organizations, except universities and colleges. Funds from the reporting institution's 501(c)3 foundation were reported under Institutional funds. Funds from other universities and colleges were reported under All other sources.
- *Institutional funds.* Includes institutionally financed research (all R&D funded by the institution from accounts that are only used for research, excluding institution research administration and support), cost sharing (committed), and unrecovered indirect costs (the portion of indirect costs associated with a sponsored project that was not reimbursed by the sponsor in accordance with the institution's negotiated indirect cost rate).
- *All other sources.* Sources not reported in other categories, such as funds from foreign governments, foreign or U.S. universities, and gifts designated by the donors for research.
- *Subrecipient.* The subrecipient for an award carries out the work but receives the funds from a pass-through entity rather than directly from the original funding source. Subrecipients tend to be the coauthors of publications, writers of technical reports discussing findings, inventors, and similar. Vendor relationships were not included.
- *Type of cost.* R&D expenditures were reported in the following categories:
  - *Salaries, wages, and fringe benefits.* Includes compensation for all R&D personnel whether full time or part time; temporary or permanent; including salaries, wages, and fringe benefits paid from institution funds and from external support.
  - *Software purchases, noncapitalized and capitalized.* Includes payments for all software—both purchases of software packages and license fees for systems.
  - *Capitalized equipment.* Includes payments for movable equipment exceeding the institution's capitalization threshold, including ancillary costs such as delivery and setup.
  - *Pass-throughs to other organizations.* See the definition for *subrecipient*.
  - *Other direct costs.* Other costs that do not fit into one of the above categories, including (but not limited to) travel, tuition waivers, services such as consulting, computer usage fees, and supplies.
  - *Indirect costs.* Includes both recovered and unrecovered indirect costs.
- *Type of R&D.* R&D expenditures were reported in the following categories:
  - *Basic research.* Experimental or theoretical work undertaken primarily to acquire new knowledge of the underlying foundations of phenomena and observable facts, without any particular application or use in view.
  - *Applied research.* Original investigation undertaken in order to acquire new knowledge. It is directed primarily toward a specific, practical aim or objective.
  - *Experimental development.* Systematic work, drawing on knowledge gained from research and practical experience and producing additional knowledge, which is directed toward producing new products or processes or toward improving existing products or processes.



## Technical Tables

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TABLE A-1

**Institution name changes between FY 2020 and FY 2021 Higher Education Research and Development Survey**

(Institution name)

FY 2020 survey	FY 2021 survey
A. T. Still U.	A. T. Still U. of Health Sciences
Carlos Albizu U.	Albizu U.
Cooper Union for the Advancement of Science and Art	Cooper Union
Hartford Seminary	Hartford International U. for Religion and Peace
Linfield C.	Linfield U.
Saint John's U., Collegeville	Saint John's U.
St. Thomas U., Miami Gardens	St. Thomas U.
SUNY, Downstate Medical Center	SUNY, Downstate Health Sciences U.
U. Colorado Denver and Anschutz Medical Campus	Multiple campuses
	U. Colorado Anschutz Medical Campus
	U. Colorado Denver
Multiple campuses	U. South Florida
U. South Florida, Sarasota-Manatee	
U. South Florida, Saint Petersburg	
U. South Florida, Tampa	

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE A-2

**Total and federally financed higher education R&D expenditures at surveyed institutions reporting less than \$150,000 in separately accounted for R&D expenditures: FY 2021**

(Dollars in thousands)

Institution	Total	Federally financed
All institutions	2,315	709
Allegheny C.	104	5
Bastyr U.	125	0
Coker U.	0	0
Ferrum C.	77	0
Hampshire C.	100	100
International Technological U.	146	0
Kansas City U. of Medicine and Biosciences	110	3
Lasell U.	144	0
Lincoln U.	136	49
Marist C.	144	90
New York Law School	142	0
Pacific Northwest U. of Health Sciences	26	0
Sarah Lawrence C.	102	2
Shippensburg U. Pennsylvania	114	78
Southern C. of Optometry	101	4
St. Lawrence U.	134	54
St. Mary's U., San Antonio	144	106
Texas A&M U.-Texarkana	49	27
U. Bridgeport	32	25
U. Minnesota, Crookston	111	0
U. Puerto Rico, Arecibo	64	14
U. Wisconsin-Parkside	116	66
Western Oregon U.	48	48
Wheeling U.	0	0
Winona State U.	46	38

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2021.

TABLE A-3

**Institutions surveyed for the Higher Education Research and Development Survey, by highest degree granted and survey population: FYs 2016–21**

(Number)

Highest degree granted	2016		2017		2018		2019		2020		2021	
	Short form population <sup>a</sup>	Standard form population	Short form population <sup>a</sup>	Standard form population	Short form population <sup>a</sup>	Standard form population	Short form population <sup>a</sup>	Standard form population	Short form population <sup>a</sup>	Standard form population	Short form population <sup>a</sup>	Standard form population
All respondents	257	639	255	643	265	646	267	647	261	655	262	648
Doctorate	63	454	66	464	76	467	73	473	77	474	81	478
Professional	40	44	42	35	44	34	45	32	44	37	42	37
Master's	101	106	101	105	96	102	104	95	96	98	92	93
Bachelor's	53	35	46	39	49	43	45	47	44	46	47	40

<sup>a</sup> Institutions reporting less than \$1 million received a shorter version of the survey questionnaire in FYs 2016–21.

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE A-4

**Response rates for the Higher Education Research and Development Survey, by survey population, highest degree granted, and institutional control: FY 2021**

(Number and percent)

Survey population and type of institution	Number in survey universe	Complete responses	Partial responses	Total responses	Response rate (%)
All respondents	910	521	344	865	95.1
Standard form institutions	648	288	332	620	95.7
Doctorate	478	203	267	470	98.3
Professional	37	18	16	34	91.9
Master's	93	45	35	80	86.0
Bachelor's	40	22	14	36	90.0
Public	412	174	227	401	97.3
Private	236	114	105	219	92.8
Short form institutions	262	233	12	245	93.5
Doctorate	81	71	3	74	91.4
Professional	42	36	4	40	95.2
Master's	92	85	4	89	96.7
Bachelor's	47	41	1	42	89.4
Public	114	107	3	110	96.5
Private	148	126	9	135	91.2

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2021.

TABLE A-5

**Response rates for the Higher Education Research and Development Survey, by survey form and question: FY 2021**

(Number and percent)

Survey form and question	All respondents	Complete question responses	Partial question responses	Total question responses	Question nonresponses	Response rate (%)
Standard form						
Question 1	620	555	65	620	0	100.0
Question 2	620	597	15	612	8	98.7
Question 3	620	599	0	599	21	96.6
Question 4	620	619	0	619	1	99.8
Question 5	620	615	1	616	4	99.4
Question 6	620	570	8	578	42	93.2
Question 7	620	567	45	612	8	98.7
Question 8	620	585	28	613	7	98.9
Question 9	620	615	5	620	0	100.0
Question 10	620	617	0	617	3	99.5
Question 11	620	596	24	620	0	100.0
Question 12	620	483	135	618	2	99.7
Question 13	620	610	2	612	8	98.7
Question 14	620	606	2	608	12	98.1
Question 15	620	504	33	537	83	86.6
Question 16	620	401	17	418	202	67.4
Short form						
Question 1	245	235	10	245	0	100.0
Question 2	245	244	0	244	1	99.6
Question 3	245	242	1	243	2	99.2
Question 4	245	243	0	243	2	99.2

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2021.

TABLE A-6

**Imputed amounts for total higher education R&D expenditures, by survey population and highest degree granted: FY 2021**

(Dollars in thousands)

Survey population and highest degree granted	All R&D expenditures	Imputed amount	Imputed amount as % of total
All universities and colleges	89,872,007	106,424	0.1
Standard form institutions	89,723,447	98,338	0.1
Doctorate-granting institutions	89,051,221	51,746	0.1
Nondoctorate-granting institutions	672,226	46,592	6.9
Short form institutions	148,560	8,086	5.4
Doctorate-granting institutions	55,173	3,495	6.3
Nondoctorate-granting institutions	93,387	4,591	4.9

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2021.



TABLE A-7

**Imputed amounts for total higher education R&D expenditures, by survey population and source of funds: FY 2021**

(Dollars in thousands)

Survey population and source of funds	All R&D expenditures	Imputed amount	Imputed amount as % of total
<b>Standard form institutions</b>			
All sources	89,723,447	98,338	0.1
Federal government	49,143,460	57,678	0.1
State and local government	4,736,015	5,106	0.1
Institution funds	22,448,362	26,235	0.1
Institutionally financed research	14,945,647	18,578	0.1
Cost sharing	1,625,933	5,292	0.3
Unrecovered indirect costs	5,876,782	2,365	0.0
Business	5,115,480	1,478	0.0
Nonprofit organizations	5,590,273	4,682	0.1
All other sources	2,689,857	3,159	0.1
<b>Short form institutions</b>			
All sources	148,560	8,086	5.4
Federal government	84,667	4,129	4.9
State and local government	9,383	707	7.5
Institution funds	33,479	2,097	6.3
Institutionally financed research	28,242	1,899	6.7
Cost sharing	1,925	81	4.2
Unrecovered indirect costs	3,312	117	3.5
Business	3,419	232	6.8
Nonprofit organizations	13,860	830	6.0
All other sources	3,752	91	2.4

**Note(s):**

Imputation rate at total level is lower than imputation rates at detail levels because some institutions could provide totals but not details.

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2021.

TABLE A-8

**Imputed amounts for higher education R&D expenditures from foreign sources, by source of funds: FY 2021**

(Dollars in thousands)

Source of foreign funding	All R&D expenditures	Imputed amount	Imputed amount as % of total
All foreign funds	1,343,381	34,175	2.5
Foreign government	285,738	5,853	2.0
Business	659,378	46,321	7.0
Nonprofit organizations	268,334	14,966	5.6
Higher education institutions	104,444	6,493	6.2
All other sources	25,487	3,926	15.4

**Note(s):**

This table includes only institutions reporting \$1 million or more in total R&D expenditures in FY 2020. Institutions reporting less than \$1 million in total R&D expenditures in FY 2020 completed a shorter version of the survey form in FY 2021 that did not include this question.

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2021.

TABLE A-9

**Imputed amounts for externally financed higher education R&D expenditures, by type of agreement: FY 2021**

(Dollars in thousands)

Type of agreement	All R&D expenditures	Imputed amount	Imputed amount as % of total
All agreements	67,275,085	72,103	0.1
Contracts	16,124,550	619,173	3.8
Grants, reimbursements, and all other agreements	51,150,535	2,351,494	4.6

**Note(s):**

Imputation rate at total level is lower than imputation rates at detail levels because some institutions could provide totals but not details. This table includes only institutions reporting \$1 million or more in total R&D expenditures in FY 2020. Institutions reporting less than \$1 million in total R&D expenditures in FY 2020 completed a shorter version of the survey form in FY 2021 that did not include this question.

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2021.

TABLE A-10

**Imputed amounts for higher education R&D expenditures in a medical school, by institutional control: FY 2021**

(Dollars in thousands)

Institutional control	All R&D expenditures	Imputed amount	Imputed amount as % of total
All institutions	33,137,637	16,465	0.0
Public	17,993,278	0	0.0
Private	15,144,359	16,465	0.1

**Note(s):**

This table includes only institutions reporting \$1 million or more in total R&D expenditures in FY 2020. Institutions reporting less than \$1 million in total R&D expenditures in FY 2020 completed a shorter version of the survey form in FY 2021 that did not include this question.

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2021.

TABLE A-11

**Imputed amounts for higher education R&D expenditures in clinical trials, by source of funds: FY 2021**

(Dollars in thousands)

Source of funds	All R&D expenditures	Imputed amount	Imputed amount as % of total
All sources	3,387,004	62,351	1.8
Federally financed	1,447,555	31,863	2.2
Nonfederally financed	1,939,449	55,893	2.9

**Note(s):**

Imputation rate at total level is lower than imputation rates at detail levels because some institutions could provide totals but not details. This table includes only institutions reporting \$1 million or more in total R&D expenditures in FY 2020. Institutions reporting less than \$1 million in total R&D expenditures in FY 2020 completed a shorter version of the survey form in FY 2021 that did not include this question.

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2021.

TABLE A-12

**Imputed amounts for total and federally financed higher education R&D expenditures, by type of R&D: FY 2021**

(Dollars in thousands)

Type of R&D	Total			Federally financed		
	All R&D expenditures	Imputed amount	Imputed amount as % of total	All R&D expenditures	Imputed amount	Imputed amount as % of total
All types of R&D	89,723,447	98,338	0.1	49,143,460	57,678	0.1
Basic research	55,947,468	9,134,111	16.3	31,128,457	6,179,665	19.9
Applied research	25,071,537	4,233,432	16.9	13,917,379	2,571,659	18.5
Experimental development	8,704,442	1,255,648	14.4	4,097,624	658,893	16.1

**Note(s):**

Imputation rate at total level is lower than imputation rates at detail levels because some institutions could provide totals but not details. This table includes only institutions reporting \$1 million or more in total R&D expenditures in FY 2020. Institutions reporting less than \$1 million in total R&D expenditures in FY 2020 completed a shorter version of the survey form in FY 2021 that did not include this question.

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2021.

TABLE A-13

**Imputed amounts for total and federally financed higher education R&D expenditures received as a subrecipient, by survey population and type of pass-through entity: FY 2021**

(Dollars in thousands)

Survey population and type of pass-through entity	Total			Federally financed		
	All R&D expenditures	Imputed amount	Imputed amount as % of total	All R&D expenditures	Imputed amount	Imputed amount as % of total
Standard form institutions						
All pass-through entities <sup>a</sup>	8,751,401	1,097,084	12.5	7,528,216	52,051	0.7
From educational pass-through entities	4,157,506	457,629	11.0	3,760,454	26,004	0.7
From business	1,430,740	188,036	13.1	1,167,340	5,983	0.5
From nonprofit organizations	1,689,859	200,136	11.8	1,352,685	8,221	0.6
From other pass-through entities	1,473,296	176,259	12.0	1,247,737	9,664	0.8
Short form institutions <sup>b</sup>						
From educational pass-through entities	20,448	669	3.3	19,372	618	3.2

<sup>a</sup> Imputation rate at total level is lower than imputation rates at detail levels because some institutions could provide totals but not details.

<sup>b</sup> Institutions in the short form population were asked to provide R&D expenditures received as a subrecipient from educational pass-through entities only.

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2021.

TABLE A-14

**Imputed amounts for total and federally financed higher education R&D expenditures passed through, by survey population and type of subrecipient: FY 2021**

(Dollars in thousands)

Survey population and type of subrecipient	Total			Federally financed		
	All R&D expenditures	Imputed amount	Imputed amount as % of total	All R&D expenditures	Imputed amount	Imputed amount as % of total
Standard form institutions						
All subrecipients <sup>a</sup>	7,576,989	12,502	0.2	6,537,697	11,557	0.2
To educational subrecipients	4,070,435	586,960	14.4	3,648,190	494,453	13.6
To businesses	1,487,533	188,422	12.7	1,222,751	154,208	12.6
To nonprofit organizations	1,382,664	159,948	11.6	1,177,985	128,767	10.9
To other pass-through entities	636,357	127,628	20.1	488,771	96,327	19.7
Short form institutions <sup>b</sup>						
To educational subrecipients	2,878	102	3.5	2,371	94	4.0

<sup>a</sup> Imputation rate at total level is lower than imputation rates at detail levels because some institutions could provide totals but not details.

<sup>b</sup> Institutions in the short form population were asked to provide R&D expenditures passed through to educational subrecipients only.

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2021.



TABLE A-15

**Imputed amounts for total and federally financed higher education R&D expenditures at institutions in the standard form population, by R&D field: FY 2021**

(Dollars in thousands)

R&D field	Total			Federally financed		
	All R&D expenditures	Imputed amount	Imputed amount as % of total	All R&D expenditures	Imputed amount	Imputed amount as % of total
All R&D fields	89,723,447	98,338	0.1	49,143,460	57,678	0.1
All science and engineering	84,610,017	929,401	1.1	47,778,518	63,504	0.1
Computer and information sciences	2,951,923	30,463	1.0	1,994,728	2,054	0.1
Geosciences, atmospheric sciences, and ocean sciences	3,295,883	43,670	1.3	2,145,163	1,875	0.1
Atmospheric science and meteorology	624,579	38,133	6.1	484,265	33,360	6.9
Geological and earth sciences	1,242,339	98,875	8.0	772,157	50,377	6.5
Ocean sciences and marine sciences	1,035,519	44,717	4.3	640,634	37,969	5.9
Geosciences, atmospheric sciences, and ocean sciences nec	393,446	22,004	5.6	248,107	9,254	3.7
Life sciences	52,364,596	619,525	1.2	28,452,956	38,173	0.1
Agricultural sciences	3,548,896	15,881	0.4	1,099,585	9,926	0.9
Biological and biomedical sciences	16,557,201	158,274	1.0	10,001,728	12,707	0.1
Health sciences	29,884,728	436,759	1.5	16,138,445	11,362	0.1
Natural resources and conservation	934,765	2,821	0.3	429,905	776	0.2
Life sciences nec	1,439,006	5,790	0.4	783,293	3,402	0.4
Mathematics and statistics	772,935	7,963	1.0	475,827	1,576	0.3
Physical sciences	5,740,630	90,414	1.6	3,852,415	6,192	0.2
Astronomy and astrophysics	741,127	10,174	1.4	509,733	373	0.1
Chemistry	1,999,546	27,849	1.4	1,239,825	2,828	0.2
Materials science	285,931	10,652	3.7	174,331	1	0.0
Physics	2,463,331	38,371	1.6	1,767,740	2,235	0.1
Physical sciences nec	250,695	3,368	1.3	160,786	755	0.5
Psychology	1,326,030	8,662	0.7	812,660	710	0.1
Social sciences	2,842,033	17,277	0.6	955,852	6,970	0.7
Anthropology	109,546	876	0.8	29,533	176	0.6
Economics	549,132	1,037	0.2	137,555	78	0.1
Political science and government	425,661	1,490	0.4	86,443	40	0.0
Sociology, demography, and population studies	552,551	4,520	0.8	232,318	1,211	0.5
Social sciences nec	1,205,143	9,354	0.8	470,003	5,465	1.2
Sciences nec	1,022,500	2,015	0.2	374,088	114	0.0
Engineering	14,293,487	109,412	0.8	8,714,829	5,840	0.1
Aerospace, aeronautical, and astronautical engineering	1,451,964	7,439	0.5	1,110,088	2	0.0
Bioengineering and biomedical engineering	1,560,381	15,931	1.0	960,152	249	0.0
Chemical engineering	1,024,301	7,235	0.7	572,307	258	0.0
Civil engineering	1,482,377	10,734	0.7	664,620	642	0.1
Electrical, electronic, and communications engineering	3,080,363	29,234	0.9	2,209,153	1,467	0.1
Industrial and manufacturing engineering	573,915	3,474	0.6	384,142	87	0.0
Mechanical engineering	1,881,551	15,271	0.8	1,274,012	1,521	0.1
Metallurgical and materials engineering	841,196	5,018	0.6	559,447	245	0.0
Engineering nec	2,397,439	15,591	0.7	980,908	1,625	0.2

TABLE A-15

**Imputed amounts for total and federally financed higher education R&D expenditures at institutions in the standard form population, by R&D field: FY 2021**

(Dollars in thousands)

R&D field	Total			Federally financed		
	All R&D expenditures	Imputed amount	Imputed amount as % of total	All R&D expenditures	Imputed amount	Imputed amount as % of total
All non-science and engineering	5,113,430	50,871	1.0	1,364,942	3,887	0.3
Business management and business administration	934,020	4,659	0.5	97,277	224	0.2
Communication and communications technologies	186,003	1,265	0.7	39,337	13	0.0
Education	1,616,705	10,188	0.6	701,430	2,466	0.4
Humanities	556,694	10,884	2.0	56,658	251	0.4
Law	282,662	228	0.1	28,777	5	0.0
Social work	319,273	1,532	0.5	165,278	67	0.0
Visual and performing arts	179,563	1,486	0.8	11,476	111	1.0
Non-science and engineering nec	1,038,510	20,629	2.0	264,709	750	0.3

nec = not elsewhere classified.

**Note(s):**

Imputation rate at total level is lower than imputation rates at detail levels because some institutions could provide totals but not details. This table includes only institutions reporting \$1 million or more in total R&D expenditures in FY 2020. Institutions reporting less than \$1 million in total R&D expenditures in FY 2020 completed a shorter version of the survey form in FY 2021 that did not include this question.

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2021.

TABLE A-16

**Imputed amounts for total and federally financed higher education R&D expenditures at institutions in the short form population, by R&D field: FY 2021**

(Dollars in thousands)

R&D field	Total			Federally financed		
	All R&D expenditures	Imputed amount	Imputed amount as % of total	All R&D expenditures	Imputed amount	Imputed amount as % of total
All R&D fields	148,560	8,086	5.4	84,667	4,129	4.9
All science and engineering	124,184	6,339	5.1	76,468	4,447	5.8
Computer and information sciences	7,786	575	7.4	6,535	441	6.7
Geosciences, atmospheric sciences, and ocean sciences	8,336	786	9.4	5,254	658	12.5
Life sciences	59,531	2,943	4.9	37,061	1,920	5.2
Mathematics and statistics	3,692	413	11.2	2,359	327	13.9
Physical sciences	18,465	832	4.5	12,509	638	5.1
Psychology	4,153	249	6.0	2,346	165	7.0
Social sciences	9,146	271	3.0	3,429	85	2.5
Sciences nec	3,622	42	1.2	1,792	42	2.3
Engineering	9,453	228	2.4	5,183	171	3.3
All non-science and engineering	24,376	2,383	9.8	8,199	313	3.8

nec = not elsewhere classified.

**Note(s):**

Imputation rate at total level is lower than imputation rates at detail levels because some institutions could provide totals but not details.

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2021.

TABLE A-17

**Imputed amounts for higher education R&D expenditures, by type of cost: FY 2021**

(Dollars in thousands)

Type of cost	All R&D expenditures	Imputed amount	Imputed amount as % of total
All costs	89,723,447	98,338	0.1
Direct costs	69,185,932	2,651,490	3.8
Salaries, wages, and fringe benefits	40,337,368	362,093	0.9
Software purchases	172,603	3,749	2.2
Noncapitalized	158,043	3,625	2.3
Capitalized	14,560	124	0.9
Capitalized equipment	2,662,006	7,190	0.3
Passed through to subrecipients	7,576,989	12,502	0.2
Other direct costs	18,436,966	521,452	2.8
Indirect costs	20,537,515	116,960	0.6

**Note(s):**

Imputation rate at total level is lower than imputation rates at detail levels because some institutions could provide totals but not details. This table includes only institutions reporting \$1 million or more in total R&D expenditures in FY 2020. Institutions reporting less than \$1 million in total R&D expenditures in FY 2020 completed a shorter version of the survey form in FY 2021 that did not include this question.

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2021.

TABLE A-18

**Imputed amounts for total and federally financed higher education R&D equipment expenditures, by R&D field: FY 2021**

(Dollars in thousands)

R&D field	Total			Federally financed		
	All R&D expenditures	Imputed amount	Imputed amount as % of total	All R&D expenditures	Imputed amount	Imputed amount as % of total
All R&D fields	2,662,006	7,190	0.3	1,272,156	3,888	0.3
All science and engineering	2,607,229	119,624	4.6	1,264,539	59,571	4.7
Computer and information sciences	112,305	14,211	12.7	61,300	5,621	9.2
Geosciences, atmospheric sciences, and ocean sciences	125,635	4,358	3.5	82,581	1,527	1.8
Atmospheric science and meteorology	21,241	750	3.5	16,808	257	1.5
Geological and earth sciences	46,776	1,985	4.2	24,303	713	2.9
Ocean sciences and marine sciences	51,267	1,593	3.1	37,823	539	1.4
Geosciences, atmospheric sciences, and ocean sciences nec	6,351	30	0.5	3,647	18	0.5
Life sciences	1,029,337	20,300	2.0	409,732	13,596	3.3
Agricultural sciences	96,332	181	0.2	28,703	131	0.5
Biological and biomedical sciences	448,424	10,555	2.4	212,198	7,232	3.4
Health sciences	439,402	9,481	2.2	150,692	6,187	4.1
Natural resources and conservation	14,937	44	0.3	6,694	22	0.3
Life sciences nec	30,242	39	0.1	11,445	24	0.2
Mathematics and statistics	9,780	4,993	51.1	5,812	2,479	42.7
Physical sciences	447,085	17,366	3.9	273,687	9,001	3.3
Astronomy and astrophysics	39,188	3,236	8.3	20,664	1,870	9.0
Chemistry	147,904	2,097	1.4	81,731	1,733	2.1
Materials science	28,355	219	0.8	17,379	219	1.3
Physics	210,252	9,701	4.6	140,734	4,719	3.4
Physical sciences nec	21,386	2,113	9.9	13,179	460	3.5
Psychology	17,293	71	0.4	9,684	23	0.2
Social sciences	11,893	502	4.2	3,711	337	9.1
Anthropology	1,029	5	0.5	42	1	2.4
Economics	3,311	29	0.9	853	3	0.4
Political science and government	427	33	7.7	23	4	17.4
Sociology, demography, and population studies	984	197	20.0	449	138	30.7
Social sciences nec	6,142	238	3.9	2,344	191	8.1
Sciences nec	62,697	2,035	3.2	9,317	1,119	12.0
Engineering	791,204	55,788	7.1	408,715	25,868	6.3
Aerospace, aeronautical, and astronautical engineering	68,280	7,034	10.3	41,490	3,139	7.6
Bioengineering and biomedical engineering	58,226	2,385	4.1	26,204	1,448	5.5
Chemical engineering	58,603	738	1.3	29,151	382	1.3
Civil engineering	39,391	525	1.3	16,260	340	2.1
Electrical, electronic, and communications engineering	181,023	25,769	14.2	127,631	11,637	9.1
Industrial and manufacturing engineering	23,314	4,695	20.1	13,954	2,092	15.0
Mechanical engineering	98,623	9,955	10.1	64,312	4,734	7.4
Metallurgical and materials engineering	65,891	1,030	1.6	46,073	461	1.0
Engineering nec	197,853	3,657	1.8	43,640	1,635	3.7
All non-science and engineering	54,777	749	1.4	7,617	129	1.7

TABLE A-18

**Imputed amounts for total and federally financed higher education R&D equipment expenditures, by R&D field: FY 2021**

(Dollars in thousands)

R&D field	Total			Federally financed		
	All R&D expenditures	Imputed amount	Imputed amount as % of total	All R&D expenditures	Imputed amount	Imputed amount as % of total
Business management and business administration	6,236	36	0.6	702	10	1.4
Communication and communications technologies	3,415	5	0.1	145	0	0.0
Education	5,099	360	7.1	918	61	6.6
Humanities	3,092	136	4.4	157	10	6.4
Law	215	16	7.4	92	1	1.1
Social work	351	7	2.0	85	3	3.5
Visual and performing arts	1,813	22	1.2	167	2	1.2
Non-science and engineering nec	34,556	167	0.5	5,351	42	0.8

nec = not elsewhere classified.

**Note(s):**

Imputation rate at total level is lower than imputation rates at detail levels because some institutions could provide totals but not details. This table includes only institutions reporting \$1 million or more in total R&D expenditures in FY 2020. Institutions reporting less than \$1 million in total R&D expenditures in FY 2020 completed a shorter version of the survey form in FY 2021 that did not include this question.

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2021.

TABLE A-19

**Federally financed higher education R&D expenditures from federal agencies not specified in question 9: FY 2021**

(Dollars in thousands)

Federal agency	R&D expenditures
All other federal agencies	3,547,676
Agency for International Development	173,984
Appalachian Regional Commission	989
Central Intelligence Agency	5,045
Consumer Financial Protection Bureau	200
Consumer Product Safety Commission	449
Corporation for National and Community Service	6,071
Department of Commerce	719,091
Department of Defense <sup>a</sup>	459
Department of Education	648,351
Department of Health and Human Services <sup>a</sup>	1,319
Department of Homeland Security	151,581
Department of Housing and Urban Development	16,644
Department of Justice	126,554
Department of Labor	35,254
Department of State	43,608
Department of the Interior	284,569
Department of the Treasury	61,194
Department of Transportation	438,872
Department of Veterans Affairs	97,588
Environmental Protection Agency	80,693
Executive Office of the President	7,415
Federal Communications Commission	2,998
Federal Deposit Insurance Corporation	188
General Services Administration	65,691
Institute of Museum and Library Services	8,030
Inter-American Foundation	78
Medicare Payment Advisory Commission	38
Millennium Challenge Corporation	148
National Archives and Records Administration	1,247
National Commission on Military Aviation Safety	45
National Council on Disability	21
National Endowment for the Arts	2,190
National Endowment for the Humanities	16,883
Northern Border Regional Commission	1,072
Nuclear Regulatory Commission	5,471
Office of Personnel Management	2,884
Office of the Director of National Intelligence	29,913
Small Business Administration	23,011
Smithsonian Institution	3,397
Social Security Administration	12,829
Tennessee Valley Authority	1,462
U.S. Institute of Peace	18
U.S. Postal Service	143
U.S. Securities and Exchange Commission	386
U.S. Trade Development Agency	199
Other agencies not listed <sup>b</sup>	469,404

<sup>a</sup> This table includes a small amount of expenditures that originated from the Departments of Defense and Health and Human Services, which are explicitly included in Question 9. These expenditures were submitted by one institution that did not move those expenditures to Question 9 before survey close.

<sup>b</sup> Some funding sources were not identified for security reasons or because the original source was not known.

**Note(s):**

This table includes only institutions reporting \$1 million or more in total R&D expenditures in FY 2020. Institutions reporting less than \$1 million in total R&D expenditures in FY 2020 completed a shorter version of the survey form in FY 2021 that did not include this question.

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2021.



TABLE A-20

**Response summary for question 13, capitalization thresholds, by highest degree granted, institutional control, and capitalization threshold: FY 2021**

(Number)

Capitalization thresholds	All institutions	Highest degree granted		Institutional control	
		Doctorate	Nondoctorate	Public	Private
Equipment					
Do not capitalize	11	6	5	6	5
500	2	2	0	0	2
1,000	11	7	4	2	9
1,500	1	1	0	0	1
2,000	8	3	5	1	7
2,500	8	6	2	1	7
3,000	14	12	2	1	13
3,500	1	1	0	1	0
4,000	1	0	1	0	1
5,000	529	415	114	377	152
6,000	1	0	1	1	0
10,000	12	8	4	2	10
15,000	1	0	1	0	1
25,000	6	1	5	0	6
50,000	1	1	0	0	1
100,000	1	0	1	1	0
250,000	4	2	2	4	0
Software					
Do not capitalize	96	67	29	59	37
500	2	1	1	0	2
1,000	10	6	4	3	7
1,500	1	1	0	0	1
2,000	5	2	3	0	5
2,500	3	3	0	0	3
3,000	13	10	3	3	10
4,000	1	0	1	0	1
5,000	267	199	68	164	103
10,000	19	11	8	6	13
15,000	1	0	1	0	1
20,000	1	0	1	0	1
25,000	13	8	5	4	9
50,000	12	12	0	6	6
75,000	2	2	0	1	1
100,000	96	82	14	89	7
140,000	1	1	0	1	0
200,000	3	3	0	3	0
250,000	17	14	3	14	3
300,000	1	1	0	0	1
400,000	3	3	0	3	0
500,000	17	16	1	15	2
1,000,000	23	18	5	22	1
4,000,000	2	2	0	2	0
5,000,000	1	1	0	1	0

**Note(s):**

This table includes only institutions reporting \$1 million or more in total R&D expenditures in FY 2020. Institutions reporting less than \$1 million in total R&D expenditures in FY 2020 completed a shorter version of the survey form in FY 2021 that did not include this question.

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2021.

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## Contact Us

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### Report Author

Michael T. Gibbons  
Survey Manager  
NCSES  
Tel: (703) 292-4590  
E-mail: [mgibbons@nsf.gov](mailto:mgibbons@nsf.gov)

### NCSES

National Center for Science and Engineering Statistics  
Directorate for Social, Behavioral and Economic Sciences  
National Science Foundation  
2415 Eisenhower Avenue, Suite W14200  
Alexandria, VA 22314  
Tel: (703) 292-8780  
FIRS: (800) 877-8339  
TDD: (800) 281-8749  
E-mail [ncsesweb@nsf.gov](mailto:ncsesweb@nsf.gov)