

**NATIONAL SCIENCE FOUNDATION
ADMINISTRATION PRIORITIES AND CROSSCUTTING RESEARCH TOPICS SUMMARY
FY 2023 BUDGET REQUEST TO CONGRESS**

(Dollars in Millions)

	NSTC Crosscut Clean Energy Technology					NSTC Crosscut U.S. Global Change Research Program				
	FY 2021 Actual	FY 2022 (TBD)	FY 2023 Request	Change over FY 2021 Actual		FY 2021 Actual	FY 2022 (TBD)	FY 2023 Request	Change over FY 2021 Actual	
				Amount	Percent				Amount	Percent
BIO	\$45.00	-	\$59.28	\$14.28	31.7%	\$155.00	-	\$237.15	\$82.15	53.0%
CISE	24.22	-	31.12	6.90	28.5%	-	-	40.00	40.00	N/A
ENG	143.38	-	223.57	80.19	55.9%	-	-	-	-	N/A
GEO	-	-	-	-	N/A	329.00	-	515.37	186.37	56.6%
MPS	132.07	-	128.56	-3.51	-2.7%	9.83	-	34.63	24.80	252.3%
SBE	-	-	-	0.00	N/A	18.25	-	25.14	6.89	37.8%
TIP ¹	37.21	-	52.47	15.26	41.0%	-	-	-	-	N/A
OISE	0.01	-	5.00	4.99	49900.0%	-	-	5.00	5.00	N/A
OPP	-	-	-	-	N/A	56.11	-	56.11	-	-
IA	-	-	-	-	N/A	-	-	-	-	N/A
R&RA	\$381.89	-	\$500.00	\$118.11	30.9%	\$568.19	-	\$913.40	\$345.21	60.8%
EDU²	-	-	-	-	N/A	-	-	-	-	N/A
Total, NSF	\$381.89	-	\$500.00	\$118.11	30.9%	\$568.19	-	\$913.40	\$345.21	60.8%

¹ FY 2021 funding for TIP is shown for comparability across fiscal years.

² Account known as Education and Human Resources (EHR) has been renamed to STEM Education (EDU).

	Advanced Manufacturing					Advanced Wireless				
	FY 2021 Actual	FY 2022 (TBD)	FY 2023 Request	Change over FY 2021 Actual		FY 2021 Actual	FY 2022 (TBD)	FY 2023 Request	Change over FY 2021 Actual	
				Amount	Percent				Amount	Percent
BIO	\$7.16	-	\$17.16	\$10.00	139.7%	-	-	-	-	N/A
CISE	44.40	-	42.22	-2.18	-4.9%	87.45	-	93.26	5.81	6.6%
ENG	123.65	-	174.37	50.72	41.0%	25.83	-	27.75	1.92	7.4%
GEO	-	-	-	-	N/A	-	-	-	-	N/A
MPS	193.42	-	123.13	-70.29	-36.3%	17.00	-	17.00	-	-
SBE	0.50	-	3.50	3.00	600.0%	-	-	-	-	N/A
TIP ¹	44.30	-	54.63	10.33	23.3%	0.75	-	30.55	29.80	3973.3%
OISE	0.26	-	0.50	0.24	92.3%	-	-	-	-	N/A
OPP	-	-	-	-	N/A	-	-	-	-	N/A
IA	16.24	-	1.00	-15.24	-93.8%	-	-	-	-	N/A
R&RA	\$429.93	-	\$416.51	-\$13.42	-3.1%	\$131.03	-	\$168.56	\$37.53	28.6%
EDU²	\$22.19	-	\$5.00	-\$17.19	-77.5%	-	-	-	-	N/A
Total	\$452.11	-	\$421.51	-\$30.60	-6.8%	\$131.03	-	\$168.56	\$37.53	28.6%

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	Artificial Intelligence					Biotechnology				
	FY 2021 Actual	FY 2022 (TBD)	FY 2023 Request	Change over FY 2021 Actual		FY 2021 Actual	FY 2022 (TBD)	FY 2023 Request	Change over FY 2021 Actual	
				Amount	Percent				Amount	Percent
BIO	\$20.00	-	\$20.00	-	-	\$110.00	-	\$130.00	\$20.00	18.2%
CISE	344.00	-	369.80	25.80	7.5%	6.92	-	6.00	-0.92	-13.3%
ENG	85.86	-	95.80	9.94	11.6%	86.77	-	101.50	14.73	17.0%
GEO	1.00	-	5.00	4.00	400.0%	10.00	-	10.00	0.00	-
MPS	110.63	-	71.67	-38.96	-35.2%	91.88	-	62.20	-29.68	-32.3%
SBE	15.06	-	19.59	4.53	30.1%	2.04	-	1.50	-0.54	-26.6%
TIP ¹	86.79	-	101.55	14.76	17.0%	11.84	-	69.06	57.22	483.4%
OISE	0.33	-	-	-0.33	-100.0%	-	-	-	-	N/A
OPP	-	-	-	-	N/A	1.60	-	2.00	\$0.40	25.0%
IA	9.07	-	1.00	-8.07	-89.0%	1.00	-	1.00	-	-
R&RA	\$672.74	-	\$684.41	\$11.67	1.7%	\$322.05	-	\$383.26	\$61.21	19.0%
EDU²	\$29.04	-	\$50.00	\$20.96	72.2%	\$14.41	-	\$9.00	-\$5.41	-37.6%
Total	\$701.78	-	\$734.41	\$32.63	4.6%	\$336.47	-	\$392.26	\$55.79	16.6%

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	NSTC Crosscut Quantum Information Science					Microelectronics and Semiconductors				
	FY 2021 Actual	FY 2022 (TBD)	FY 2023 Request	Change over FY 2021 Actual		FY 2021 Actual	FY 2022 (TBD)	FY 2023 Request	Change over FY 2021 Actual	
				Amount	Percent				Amount	Percent
BIO	\$3.28	-	\$3.28	-	-	-	-	-	-	N/A
CISE	20.70	-	24.28	3.58	17.3%	17.95	-	23.46	5.51	30.7%
ENG	21.31	-	32.89	11.58	54.3%	43.07	-	46.00	2.93	6.8%
GEO	-	-	-	-	N/A	-	-	-	-	N/A
MPS	154.03	-	156.13	2.10	1.4%	57.31	-	26.00	-31.31	-54.6%
SBE	-	-	-	-	N/A	-	-	-	-	N/A
TIP ¹	20.53	-	38.42	17.89	87.1%	12.78	-	50.23	37.45	293.0%
OISE	0.09	-	1.00	0.91	1011.1%	-	-	-	-	N/A
OPP	-	-	-	-	N/A	-	-	-	-	N/A
IA	24.60	-	-	-24.60	-100.0%	-	-	-	-	N/A
R&RA	\$244.54	-	\$256.00	\$11.46	4.7%	\$131.11	-	\$145.69	\$14.58	11.1%
EDU²	\$10.52	-	\$5.00	-\$5.52	-52.5%	-	-	-	-	N/A
Total, NSF	\$255.06	-	\$261.00	\$5.94	2.3%	\$131.11	-	\$145.69	\$14.58	11.1%

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Summary Tables

	NSTC Crosscut National Nanotechnology Initiative (NNI)					NSTC Crosscut Networking & Information Technology R&D (NITRD)				
	FY 2021 Actual	FY 2022 (TBD)	FY 2023 Request	Change over FY 2021 Actual		FY 2021 Actual	FY 2022 (TBD)	FY 2023 Request	Change over FY 2021 Actual	
				Amount	Percent				Amount	Percent
BIO	\$39.95	-	\$39.95	-	-	\$79.00	-	\$79.00	-	-
CISE	14.67	-	14.05	-0.62	-4.2%	1,007.13	-	1,150.78	143.65	14.3%
ENG	206.45	-	231.75	25.30	12.3%	164.59	-	179.26	14.67	8.9%
GEO	-	-	-	-	N/A	23.00	-	30.00	7.00	30.4%
MPS	340.13	-	133.50	-206.63	-60.8%	298.45	-	226.81	-71.64	-24.0%
SBE	0.40	-	0.40	-	-	34.90	-	30.94	-3.96	-11.3%
TIP ¹	4.00	-	10.05	6.05	151.3%	80.45	-	380.04	299.59	372.4%
OISE	0.10	-	0.10	-	-	0.33	-	-	-0.33	-100.0%
OPP	-	-	-	-	N/A	-	-	-	-	N/A
IA	-	-	-	-	N/A	9.07	-	1.00	-8.07	-89.0%
R&RA	\$605.70	-	\$429.80	-\$175.90	-29.0%	\$1,696.92	-	\$2,077.83	\$380.91	22.4%
EDU²	\$6.04	-	\$5.00	-\$1.04	-17.2%	\$17.60	-	\$29.59	\$11.99	68.1%
Total	\$611.74	-	\$434.80	-\$176.94	-28.9%	\$1,714.52	-	\$2,107.42	\$392.90	22.9%

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