

Technical Information

**NSF FY 2022 REQUEST FUNDING BY PROGRAM**  
(Dollars in Millions)

	FY 2020 Actual	FY 2020 CARES Act Actual	FY 2020 Total	FY 2021 Estimate <sup>1</sup>	FY 2022 Request	FY 2022 Request change over FY 2020 Actual	
						Amount	Percent
<b>BIOLOGICAL SCIENCES (BIO)</b>							
BIOLOGICAL INFRASTRUCTURE	\$181.85	-	\$181.85	\$167.08	\$204.89	\$23.04	12.7%
EMERGING FRONTIERS	98.56	19.00	117.56	109.58	149.59	51.03	51.8%
ENVIRONMENTAL BIOLOGY	171.31	-	171.31	178.86	196.22	24.91	14.5%
INTEGRATIVE ORGANISMAL SYSTEMS	204.05	-	204.05	206.98	227.07	23.02	11.3%
MOLECULAR & CELLULAR BIOSCIENCES	153.54	-	153.54	155.64	170.74	17.20	11.2%
<b>TOTAL, BIO</b>	<b>\$809.31</b>	<b>\$19.00</b>	<b>\$828.31</b>	<b>\$818.14</b>	<b>\$948.51</b>	<b>\$139.20</b>	<b>17.2%</b>
<b>COMPUTER &amp; INFORMATION SCIENCE &amp; ENGINEERING (CISE)</b>							
ADVANCED CYBERINFRASTRUCTURE	\$228.65	\$0.90	\$229.55	\$230.54	\$252.19	\$23.54	10.3%
COMPUTING & COMMUNICATION FOUNDATIONS	199.34	1.40	200.74	201.00	218.50	19.16	9.6%
COMPUTER & NETWORK SYSTEMS	236.14	6.20	242.34	238.12	259.87	23.73	10.1%
INFORMATION & INTELLIGENT SYSTEMS	216.02	6.00	222.02	217.87	238.59	22.57	10.4%
INFORMATION TECHNOLOGY RESEARCH	116.24	0.50	116.74	117.96	146.91	30.67	26.4%
<b>TOTAL, CISE</b>	<b>\$996.40</b>	<b>\$15.00</b>	<b>\$1,011.40</b>	<b>\$1,005.49</b>	<b>\$1,116.06</b>	<b>\$119.66</b>	<b>12.0%</b>
<b>ENGINEERING (ENG)<sup>2,3</sup></b>							
CHEMICAL, BIOENGINEERING, ENVIRONMENTAL, & TRANSPORT SYSTEMS	\$197.92	\$7.70	\$205.62	\$199.96	\$241.05	\$43.13	21.8%
CIVIL, MECHANICAL, & MANUFACTURING INNOVATION	238.58	3.75	242.33	241.13	290.50	51.92	21.8%
ELECTRICAL, COMMUNICATIONS, & CYBER SYSTEMS	122.86	1.50	124.36	124.05	149.52	26.66	21.7%
ENGINEERING EDUCATION & CENTERS	124.06	1.30	125.36	125.02	149.30	25.24	20.3%
EMERGING FRONTIERS AND MULTIDISCIPLINARY ACTIVITIES	70.88	0.75	71.63	71.69	86.42	15.54	21.9%
<b>TOTAL, ENG</b>	<b>\$754.31</b>	<b>\$15.00</b>	<b>\$769.31</b>	<b>\$761.85</b>	<b>\$916.79</b>	<b>\$162.48</b>	<b>21.5%</b>

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<b>GEOSCIENCES (GEO)</b>							
ATMOSPHERIC & GEOSPACE SCIENCES	\$280.08	-	\$280.08	\$283.47	\$341.71	\$61.63	22.0%
EARTH SCIENCES	199.21	-	199.21	201.36	240.04	40.83	20.5%
INTEGRATIVE & COLLABORATIVE EDUCATION AND RESEARCH	113.07	-	113.07	116.30	137.03	23.96	21.2%
OCEAN SCIENCES	401.36	-	401.36	403.05	476.14	74.78	18.6%
<b>TOTAL, GEO</b>	<b>\$993.72</b>	<b>-</b>	<b>\$993.72</b>	<b>\$1,004.18</b>	<b>\$1,194.92</b>	<b>\$201.20</b>	<b>20.2%</b>
<b>MATHEMATICAL &amp; PHYSICAL SCIENCES (MPS)</b>							
ASTRONOMICAL SCIENCES	\$279.10	-	\$279.10	\$277.05	\$294.05	\$14.95	5.4%
CHEMISTRY	260.37	-	260.37	259.71	284.14	23.77	9.1%
MATERIALS RESEARCH	330.15	-	330.15	329.78	349.92	19.77	6.0%
MATHEMATICAL SCIENCES	244.09	-	244.09	243.54	259.47	15.38	6.3%
PHYSICS	304.39	-	304.39	303.90	316.59	12.20	4.0%
MULTIDISCIPLINARY ACTIVITIES	112.01	6.00	118.01	166.50	186.57	74.56	66.6%
<b>TOTAL, MPS</b>	<b>\$1,530.12</b>	<b>\$6.00</b>	<b>\$1,536.12</b>	<b>\$1,580.48</b>	<b>\$1,690.74</b>	<b>\$160.62</b>	<b>10.5%</b>
<b>SOCIAL, BEHAVIORAL &amp; ECONOMIC SCIENCES (SBE)</b>							
BEHAVIORAL AND COGNITIVE SCIENCES	\$98.64	\$4.00	\$102.64	\$99.41	\$113.16	\$14.52	14.7%
SOCIAL AND ECONOMIC SCIENCES	99.87	5.50	105.37	102.83	117.08	17.21	17.2%
MULTIDISCIPLINARY ACTIVITIES	26.64	-	26.64	24.34	27.94	1.30	4.9%
NATIONAL CENTER FOR SCIENCE & ENGINEERING STATISTICS	55.20	-	55.20	55.48	61.48	6.28	11.4%
<b>TOTAL, SBE</b>	<b>\$280.35</b>	<b>\$9.50</b>	<b>\$289.85</b>	<b>\$282.06</b>	<b>\$319.66</b>	<b>\$39.31</b>	<b>14.0%</b>

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<b>TECHNOLOGY, INNOVATION &amp; PARTNERSHIPS (TIP)</b>							
TRANSLATIONAL IMPACT (TI) <sup>3</sup>	\$254.13	\$2.75	\$256.88	\$254.87	\$329.87	\$75.74	29.8%
<i>[SBIR/STTR, including operations]</i>	<i>[232.06]</i>	<i>[2.75]</i>	<i>[234.81]</i>	<i>[232.06]</i>	<i>[274.64]</i>	<i>[42.58]</i>	<i>[18.3%]</i>
INNOVATION ECOSYSTEMS <sup>3</sup>	98.18	0.80	98.98	110.00	335.00	236.82	241.2%
TECHNOLOGY FRONTIERS	-	-	-	-	150.00	150.00	N/A
PARTNERSHIPS OFFICE	-	-	-	-	50.00	50.00	N/A
<b>TOTAL, TIP</b>	<b>\$352.31</b>	<b>\$3.55</b>	<b>\$355.86</b>	<b>\$364.87</b>	<b>\$864.87</b>	<b>\$512.56</b>	<b>145.5%</b>
<b>OFFICE OF INTERNATIONAL SCIENCE AND ENGINEERING (OISE)</b>	<b>\$51.04</b>	<b>-</b>	<b>\$51.04</b>	<b>\$51.32</b>	<b>\$75.32</b>	<b>\$24.28</b>	<b>47.6%</b>
<b>OFFICE OF POLAR PROGRAMS (OPP)</b>							
OFFICE OF POLAR PROGRAMS	\$480.59	-	\$480.59	\$483.35	\$506.29	\$25.70	5.3%
<i>[US Antarctic Logistical Support Activities]</i>	<i>[77.00]</i>	<i>[-]</i>	<i>[77.00]</i>	<i>[77.00]</i>	<i>[77.10]</i>	<i>[0.10]</i>	<i>[0.13%]</i>
<b>Total, OPP</b>	<b>\$480.59</b>	<b>-</b>	<b>\$480.59</b>	<b>\$483.35</b>	<b>\$506.29</b>	<b>\$25.70</b>	<b>5.3%</b>
<b>INTEGRATIVE ACTIVITIES (IA)</b>							
ESTABLISHED PROGRAM TO STIMULATE COMPETITIVE RESEARCH (EPSCoR)	190.32	1.25	191.57	200.00	239.64	49.32	25.9%
INTEGRATIVE ACTIVITIES <sup>4</sup>	162.65	0.70	163.35	184.88	265.26	102.61	63.1%
<b>TOTAL, IA</b>	<b>\$352.97</b>	<b>\$1.95</b>	<b>\$354.92</b>	<b>\$384.88</b>	<b>\$504.90</b>	<b>\$151.93</b>	<b>43.0%</b>
<b>UNITED STATES ARCTIC RESEARCH COMMISSION</b>	<b>\$1.60</b>	<b>-</b>	<b>\$1.60</b>	<b>\$1.60</b>	<b>\$1.65</b>	<b>\$0.05</b>	<b>3.1%</b>
<b>TOTAL, RESEARCH AND RELATED ACTIVITIES</b>	<b>\$6,602.70</b>	<b>\$70.00</b>	<b>\$6,672.70</b>	<b>\$6,738.22</b>	<b>\$8,139.71</b>	<b>\$1,537.01</b>	<b>23.3%</b>

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<b>EDUCATION &amp; HUMAN RESOURCES (EHR)</b>							
GRADUATE EDUCATION <sup>4</sup>	\$405.48	\$0.66	\$406.14	\$420.64	\$466.63	\$61.15	15.1%
HUMAN RESOURCE DEVELOPMENT	210.77	0.80	\$211.57	215.36	307.88	97.11	46.1%
RESEARCH ON LEARNING IN FORMAL AND INFORMAL SETTINGS	198.62	2.16	\$200.78	204.16	229.66	31.04	15.6%
UNDERGRADUATE EDUCATION	269.37	1.38	\$270.74	270.10	283.10	13.73	5.1%
<b>TOTAL, EDUCATION &amp; HUMAN RESOURCES</b>	<b>\$1,084.24</b>	<b>\$5.00</b>	<b>\$1,089.24</b>	<b>\$1,110.26</b>	<b>\$1,287.27</b>	<b>\$203.03</b>	<b>18.7%</b>
<b>MAJOR RESEARCH EQUIPMENT &amp; FACILITIES CONSTRUCTION</b>	<b>\$154.84</b>	<b>-</b>	<b>\$154.84</b>	<b>\$241.00</b>	<b>\$249.00</b>	<b>\$94.16</b>	<b>60.8%</b>
<b>AGENCY OPERATIONS AND AWARD MANAGEMENT</b>	<b>\$347.58</b>	<b>\$1.00</b>	<b>\$348.58</b>	<b>\$374.93</b>	<b>\$468.30</b>	<b>\$120.72</b>	<b>34.7%</b>
<b>OFFICE OF INSPECTOR GENERAL</b>	<b>\$16.30</b>	<b>-</b>	<b>\$16.30</b>	<b>\$17.85</b>	<b>\$20.42</b>	<b>\$4.12</b>	<b>25.2%</b>
<b>OFFICE OF THE NATIONAL SCIENCE BOARD</b>	<b>\$4.43</b>	<b>-</b>	<b>\$4.43</b>	<b>\$4.50</b>	<b>\$4.60</b>	<b>\$0.17</b>	<b>3.9%</b>
<b>TOTAL, NATIONAL SCIENCE FOUNDATION</b>	<b>\$8,210.08</b>	<b>\$76.00</b>	<b>\$8,286.08</b>	<b>\$8,486.76</b>	<b>\$10,169.30</b>	<b>\$1,959.22</b>	<b>23.9%</b>

<sup>1</sup> Not included in the FY 2021 Estimate is \$600.0 million in American Rescue Plan Act of 2021 (ARP) (P.L. 117-2) supplemental mandatory two-year appropriations to fund or extend new and existing research grants, cooperative agreements, scholarships, fellowships, and apprenticeships, and related administrative expenses to prepare for, and respond to coronavirus.

<sup>2</sup> The ENG Division of Industrial Innovation and Partnerships (IIP) is being dissolved in FY 2022. Most programs are moving to TIP, while the remainder are moving to the ENG Division of Engineering Education and Centers. Funding for FY 2020 Actuals and FY 2021 Estimate are restated for comparability.

<sup>3</sup> The Directorate for Technology, Innovation, and Partnerships is created in FY 2022. Funding for FY 2020 Actuals and FY 2021 Estimate is restated for programs moving to TIP for comparability.

<sup>4</sup> The Graduate Research Fellowship Program is consolidated within the EHR Division of Graduate Education in FY 2022, and is restated in prior years for comparability.