

TABLE 8

**Federal budget authority for General science and basic research (251) R&D and R&D plant: FYs 2020–22**

(Millions of dollars and percent change)

Budget function and agency	2020 actual	2021 preliminary	2022 proposed	2020–21 (% change)	2021–22 (% change)
R&D and R&D plant	13,659	13,800	15,445	1.0	11.9
Department of Energy					
Office of Science <sup>a</sup>	6,923	6,918	7,272	-0.1	5.1
National Science Foundation <sup>b,c</sup>	6,736	6,882	8,173	2.2	18.8
Arctic Research Commission	2	2	2	0.0	3.1
Biological Sciences	828	818	949	-1.2	15.9
Computer and Information Science and Engineering	1,011	1,005	1,116	-0.6	11.0
Education and Human Resources	1,089	1,110	1,287	1.9	15.9
Engineering	769	762	917	-1.0	20.3
Geosciences	994	1,004	1,195	1.1	19.0
Integrative Activities	353	527	505	49.3	-4.2
International Science and Engineering	51	51	75	0.6	46.8
Major Research Equipment and Facilities and Construction	155	241	249	55.6	3.3
Mathematical and Physical Sciences	1,536	1,580	1,691	2.9	7.0
Social, Behavioral and Economic Sciences	290	282	320	-2.7	13.3
Technology, Innovation, and Partnerships	352	365	865	3.6	137.0
Budget authority adjustment <sup>d</sup>	-695	-867	-996	na	na
R&D	11,620	11,683	13,344	0.5	14.2
Department of Energy					
Office of Science <sup>a</sup>	5,325	5,335	5,765	0.2	8.1
National Science Foundation <sup>b,e</sup>	6,294	6,348	7,578	0.9	19.4
Arctic Research Commission	2	2	2	0.0	3.1
Biological Sciences	828	818	949	-1.2	15.9
Computer and Information Science and Engineering	1,011	1,005	1,116	-0.6	11.0
Education and Human Resources	1,089	1,110	1,287	1.9	15.9
Engineering	769	762	917	-1.0	20.3
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Social, Behavioral and Economic Sciences	290	282	320	-2.7	13.3
Technology, Innovation, and Partnerships	352	365	865	3.6	137.0
Budget authority adjustment <sup>f</sup>	-1,136	-1,400	-1,591	na	na

na = not applicable.

<sup>a</sup> The Office of Science received \$100 million in emergency spending for COVID-19 response in FY 2020. A portion of this may have funded R&D or R&D plant, although detailed estimates are not available.

<sup>b</sup> These data include \$75 million in emergency COVID-19 R&D received in FY 2020. In addition, the National Science Foundation (NSF) received \$600 million in emergency spending in FY 2021, but data for related R&D or R&D plant expenditures from that emergency spending are not yet available.

<sup>c</sup> The NSF budget shown here includes only R&D and R&D plant; however, subaccount budgets (Arctic Research Commission, Biological Sciences, etc.) include some non-R&D and non-R&D plant funding.

<sup>d</sup> Budget authority adjustment subtracts non-R&D and non-R&D plant spending (such as support and overhead) from subaccount budgets.

<sup>e</sup> The NSF budget shown here includes only R&D; however, subaccount budgets (Arctic Research Commission, Biological Sciences, etc.) include some non-R&D funding.

<sup>f</sup> Budget authority adjustment subtracts non-R&D spending (such as support, overhead, and R&D plant) from subaccount budgets.

**Note(s):**

Detail may not add to total because of rounding. Percent change is calculated on unrounded data.

**Source(s):**

Agencies' submissions to the Office of Management and Budget per MAX Schedule C, agencies' budget justification documents, and supplemental data obtained from agencies' budget offices.