

TABLE 1

**Federal budget authority for R&D and R&D plant, by budget function, ordered by FY 2020 R&D and R&D plant total: FYs 2020–22**

(Millions of dollars and percent change)

Budget function	2020 actual <sup>a</sup>	2021 preliminary <sup>a</sup>	2022 proposed	2020–21 (% change)	2021–22 (% change)
R&D and R&D plant	169,901	165,560	179,418	-2.6	8.4
National defense	81,874	79,584	78,704	-2.8	-1.1
Health	44,431	43,471	51,138	-2.2	17.6
Space flight, research, and supporting activities	14,206	12,594	13,842	-11.3	9.9
General science and basic research	13,659	13,800	15,445	1.0	11.9
Energy	4,539	4,537	6,533	-0.0	44.0
Natural resources and environment	2,879	2,899	3,830	0.7	32.1
Agriculture	2,674	2,655	3,245	-0.7	22.2
Transportation	1,712	1,704	1,989	-0.4	16.7
Veterans benefits and services	1,366	1,420	1,498	4.0	5.5
Commerce and housing credit	1,008	1,127	1,300	11.8	15.4
Education, training, employment, and social services	581	767	819	32.0	6.8
Administration of justice	522	567	606	8.5	6.9
International affairs	226	226	226	0.0	0.0
Income security	106	90	90	-15.1	0.0
Community and regional development	97	99	133	2.1	34.3
Medicare	20	20	20	0.0	0.0
R&D	163,875	161,412	174,787	-1.5	8.3
National defense	79,389	78,609	77,762	-1.0	-1.1
Health	43,936	43,199	50,816	-1.7	17.6
Space flight, research, and supporting activities	14,158	12,542	13,794	-11.4	10.0
General science and basic research	11,620	11,683	13,344	0.5	14.2
Energy	4,391	4,433	6,257	0.9	41.1
Natural resources and environment	2,653	2,654	3,339	0.0	25.8
Agriculture	2,332	2,469	3,050	5.9	23.5
Transportation	1,674	1,672	1,951	-0.1	16.7
Veterans benefits and services	1,366	1,420	1,498	4.0	5.5
Commerce and housing credit	858	1,015	1,128	18.3	11.1
Education, training, employment, and social services	527	733	783	39.1	6.8
Administration of justice	522	548	597	4.9	9.0
International affairs	226	226	226	0.0	0.0
Income security	106	90	90	-15.1	0.0
Community and regional development	97	99	133	2.1	34.3
Medicare	20	20	20	0.0	0.0
R&D plant	6,026	4,148	4,632	-31.2	11.7
National defense	2,485	975	942	-60.8	-3.4
Health	495	272	322	-45.1	18.4
Space flight, research, and supporting activities	48	52	48	8.3	-7.7
General science and basic research	2,039	2,116	2,102	3.8	-0.7
Energy	147	104	276	-29.2	164.6
Natural resources and environment	227	246	491	8.4	99.9
Agriculture	343	186	195	-45.8	5.2
Transportation	38	32	38	-16.1	18.8
Veterans benefits and services	0	0	0	-	-
Commerce and housing credit	150	112	172	-25.3	53.6
Education, training, employment, and social services	54	34	36	-37.0	5.9
Administration of justice	0	19	9	-	-52.6

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Budget function	2020 actual <sup>a</sup>	2021 preliminary <sup>a</sup>	2022 proposed	2020–21 (% change)	2021–22 (% change)
International affairs	0	0	0	-	-
Income security	0	0	0	-	-
Community and regional development	0	0	0	-	-
Medicare	0	0	0	-	-

<sup>a</sup> Agencies in several functions received emergency COVID-19 funding for R&D and/or R&D plant in FY 2020 and FY 2021. This funding may be included in the data in this table, although this is not clear in all cases.

**Note(s):**

Detail may not add to total because of rounding. Percent change is calculated on unrounded data. The data for each of the years reflects the application of the narrowed definition of development described by the Office of Management and Budget (OMB) in its Circular A-11 of July 2016.

**Source(s):**

Agencies' submissions to OMB per MAX Schedule C, agencies' budget justification documents, and supplemental data obtained from agencies' budget offices.