

TABLE 1

Federal budget authority for R&D and R&D plant, by budget function, ordered by FY 2019 R&D and R&D plant total: FYs 2019–21

(Millions of dollars and percent change)

Budget function	2019 actual	2020 preliminary ^a	2021 proposed	2019–20 (% change)	2020–21 (% change)
R&D and R&D plant	149,971	164,453	150,874	9.7	-8.3
National defense	72,027	80,923	76,480	12.4	-5.5
Health ^b	38,998	40,726	37,802	4.4	-7.2
General science and basic research	13,165	13,675	12,087	3.9	-11.6
Space flight, research, and supporting activities	10,133	13,482	12,704	33.1	-5.8
Energy	4,473	4,619	2,488	3.2	-46.1
Natural resources and environment	2,845	2,751	1,991	-3.3	-27.6
Agriculture	2,719	2,631	2,514	-3.2	-4.5
Transportation	1,621	1,695	1,253	4.5	-26.0
Veterans benefits and services	1,370	1,313	1,351	-4.2	2.9
Commerce and housing credit	920	1,003	854	9.0	-14.8
Administration of justice	590	522	443	-11.5	-15.2
Education, training, employment, and social services	587	589	558	0.3	-5.3
International affairs	235	226	73	-3.8	-67.7
Community and regional development	165	175	169	6.1	-3.4
Income security	102	102	87	0.0	-14.7
Medicare	20	20	20	0.0	0.0
R&D	145,615	158,470	147,057	8.8	-7.2
National defense	71,396	78,439	75,556	9.9	-3.7
Health ^b	38,755	40,461	37,452	4.4	-7.4
General science and basic research	10,961	11,454	10,539	4.5	-8.0
Space flight, research, and supporting activities	10,016	13,428	12,656	34.1	-5.7
Energy	4,433	4,477	2,123	1.0	-52.6
Natural resources and environment	2,486	2,517	1,780	1.3	-29.3
Agriculture	2,205	2,292	2,330	3.9	1.7
Transportation	1,582	1,656	1,224	4.7	-26.1
Veterans benefits and services	1,370	1,313	1,351	-4.2	2.9
Commerce and housing credit	783	853	762	9.0	-10.7
Administration of justice	590	522	424	-11.5	-18.9
Education, training, employment, and social services	517	535	511	3.5	-4.5
International affairs	235	226	73	-3.8	-67.7
Community and regional development	165	175	169	6.1	-3.4
Income security	102	102	87	0.0	-14.7
Medicare	20	20	20	0.0	0.0
R&D plant	4,356	5,983	3,817	37.3	-36.2
National defense	630	2,484	924	294.1	-62.8
Health ^b	243	265	350	8.9	32.1
General science and basic research	2,205	2,221	1,549	0.8	-30.3
Space flight, research, and supporting activities	117	54	48	-53.8	-11.1
Energy	41	142	364	249.6	156.2
Natural resources and environment	359	235	211	-34.6	-10.1
Agriculture	514	340	184	-33.9	-45.8
Transportation	40	39	29	-2.5	-24.8
Veterans benefits and services	0	0	0	–	–
Commerce and housing credit	138	150	92	8.7	-38.6

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Administration of justice	0	0	19	--	--
Education, training, employment, and social services	70	54	47	-22.9	-13.0
International affairs	0	0	0	--	--
Community and regional development	0	0	0	--	--
Income security	0	0	0	--	--
Medicare	0	0	0	--	--

^a Excludes most R&D funded as part of emergency coronavirus (COVID-19) response legislation in the 2020 calendar year.

^b In March 2020, the White House issued an FY 2021 budget amendment adding \$1.3 billion to the proposed budget for the Centers for Disease Control and Prevention, and \$440 million to the proposed budget for the National Institute of Allergy and Infectious Diseases, part of the National Institutes of Health. R&D contained in these additional proposals is not reflected in the FY 2021 Health function.

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.