

**Table 1****Federal budget authority for R&D and R&D plant, by budget function category: FYs 2017–22**

(Millions of current and 2012 constant dollars and percent)

Fiscal year	All functions	National defense (050)	Nondefense									
			Total	General science and basic research (251)	Space flight, research, and supporting activities (252)	Energy (270)	Natural resources and environment (300)	Agriculture (350)	Transportation (400)	Health (550)	Veterans benefits and services (700)	Other <sup>a</sup>
Current \$millions												
2017 <sup>b</sup>	127,306	57,530	69,776	11,289	10,187	3,544	2,533	2,302	1,479	34,393	1,346	2,703
2018	144,460	68,916	75,544	12,559	10,552	4,233	2,662	2,346	1,594	37,316	1,286	2,996
2019	149,971	72,027	77,944	13,165	10,133	4,473	2,845	2,719	1,621	38,998	1,370	2,620
2020	169,901	81,874	88,027	13,659	14,206	4,539	2,879	2,674	1,712	44,431	1,366	2,561
2021 preliminary	165,560	79,584	85,976	13,800	12,594	4,537	2,899	2,655	1,704	43,471	1,420	2,896
2022 proposed	179,418	78,704	100,714	15,445	13,842	6,533	3,830	3,245	1,989	51,138	1,498	3,194
% avg growth 2017–21 <sup>c</sup>	6.8	8.5	5.4	5.1	5.4	6.4	3.4	3.6	3.6	6.0	1.3	1.7
% change 2017–18	13.5	19.8	8.3	11.2	3.6	19.4	5.1	1.9	7.8	8.5	-4.5	10.8
% change 2018–19	3.8	4.5	3.2	4.8	-4.0	5.7	6.9	15.9	1.7	4.5	6.5	-12.6
% change 2019–20	13.3	13.7	12.9	3.8	40.2	1.5	1.2	-1.7	5.6	13.9	-0.3	-2.3
% change 2020–21	-2.6	-2.8	-2.3	1.0	-11.3	0.0	0.7	-0.7	-0.5	-2.2	4.0	13.1
% change 2021–22	8.4	-1.1	17.1	11.9	9.9	44.0	32.1	22.2	16.7	17.6	5.5	10.3
2012 constant \$millions												
2017 <sup>b</sup>	118,127	53,382	64,745	10,475	9,453	3,288	2,350	2,136	1,372	31,913	1,249	2,508
2018	131,018	62,503	68,514	11,390	9,570	3,839	2,414	2,128	1,446	33,844	1,166	2,717
2019	133,379	64,058	69,321	11,708	9,012	3,978	2,530	2,418	1,442	34,683	1,218	2,330
2020	149,232	71,914	77,318	11,997	12,478	3,987	2,529	2,349	1,504	39,026	1,200	2,249
2021 preliminary	142,995	68,737	74,258	11,919	10,878	3,919	2,504	2,293	1,472	37,546	1,226	2,501
2022 proposed	152,165	66,749	85,416	13,099	11,739	5,541	3,248	2,752	1,687	43,370	1,270	2,709
% avg growth 2017–21 <sup>c</sup>	4.9	6.5	3.5	3.3	3.6	4.5	1.6	1.8	1.8	4.1	-0.5	-0.1
% change 2017–18	10.9	17.1	5.8	8.7	1.2	16.8	2.7	-0.4	5.4	6.1	-6.6	8.3
% change 2018–19	1.8	2.5	1.2	2.8	-5.8	3.6	4.8	13.6	-0.3	2.5	4.5	-14.2
% change 2019–20	11.9	12.3	11.5	2.5	38.5	0.2	0.0	-2.9	4.3	12.5	-1.5	-3.5
% change 2020–21	-4.2	-4.4	-4.0	-0.7	-12.8	-1.7	-1.0	-2.4	-2.1	-3.8	2.2	11.2
% change 2021–22	6.4	-2.9	15.0	9.9	7.9	41.4	29.7	20.0	14.6	15.5	3.6	8.3

<sup>a</sup> Other functions include International affairs (150); Commerce and housing credit (300); Community and regional development (450); Education, training, employment, and social services (500); Medicare (570); Income security (600); Administration of justice (750); and General government (800). Most all of the dollar amounts for these budget functions are well below \$1 billion annually.

<sup>b</sup> The data for 2017 and onward reflect application of the narrowed definition of *development* described by the Office of Management and Budget (OMB) in its Circular A-11 of July 2016. The previous years' numbers reflect use of the former development definition. The budget authority total in FY 2017 is approximately \$27 billion lower than it would have been without this narrowed R&D definition.

<sup>c</sup> Calculated as the compound average annual growth rate over the periods noted.

**Note(s):**

Data show budget information collected through October 2021.

**Source(s):**

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