

TABLE 5

Federal budget authority for National defense (050) R&D and R&D plant: FYs 2019–21

(Millions of dollars and percent change)

Budget function and agency	2019 actual	2020 preliminary	2021 proposed	2019–20 (% change)	2020–21 (% change)
R&D and R&D plant	72,027	80,923	76,480	12.4	-5.5
Department of Defense, military (051)	64,685	73,154	67,844	13.1	-7.3
R&D within RDT&E accounts ^a	61,292	67,264	66,052	9.7	-1.8
Defense agencies	19,021	19,863	17,690	4.4	-10.9
Defense Advanced Research Projects Agency	3,426	3,458	3,566	1.0	3.1
Missile Defense Agency	7,246	8,138	7,170	12.3	-11.9
Other defense agencies	8,350	8,266	6,954	-1.0	-15.9
Department of the Air Force	18,436	21,130	15,925	14.6	-24.6
Space Force	na	na	5,445	--	--
Department of the Army	9,650	10,812	10,650	12.0	-1.5
Department of the Navy	13,807	15,230	16,131	10.3	5.9
Operational Test and Evaluation	377	228	210	-39.5	-7.9
Other military funding ^b	3,393	5,890	1,793	73.6	-69.6
Department of Energy, atomic energy defense activities (053)	7,306	7,752	8,627	6.1	11.3
Defense environmental cleanup	25	30	28	18.5	-6.7
Naval reactors development	1,543	1,365	1,498	-11.5	9.7
Nonproliferation	379	411	452	8.5	10.1
Weapons activities	5,359	5,947	6,649	11.0	11.8
Department of Justice, Federal Bureau of Investigation (054)	23	2	2	-91.3	0.0
Department of Homeland Security, Cybersecurity and Infrastructure Security Agency (054)	13	14	6	9.9	-55.4
R&D	71,396	78,439	75,556	9.9	-3.7
Department of Defense, military (051)	64,663	71,301	67,844	10.3	-4.8
R&D within RDT&E accounts ^a	61,292	67,264	66,052	9.7	-1.8
Defense agencies	19,021	19,863	17,690	4.4	-10.9
Defense Advanced Research Projects Agency	3,426	3,458	3,566	1.0	3.1
Missile Defense Agency	7,246	8,138	7,170	12.3	-11.9
Other defense agencies	8,350	8,266	6,954	-1.0	-15.9
Department of the Air Force	18,436	21,130	15,925	14.6	-24.6
Space Force	na	na	5,445	--	--
Department of the Army	9,650	10,812	10,650	12.0	-1.5
Department of the Navy	13,807	15,230	16,131	10.3	5.9
Operational Test and Evaluation	377	228	210	-39.5	-7.9
Other military funding ^b	3,371	4,037	1,793	19.8	-55.6
Department of Energy, atomic energy defense activities (053)	6,698	7,121	7,703	6.3	8.2
Defense environmental cleanup	25	30	28	18.5	-6.7
Naval reactors development	1,238	1,112	1,164	-10.2	4.7
Nonproliferation	379	393	452	3.8	15.1
Weapons activities	5,056	5,587	6,059	10.5	8.5
Department of Justice, Federal Bureau of Investigation (054)	23	2	2	-91.3	0.0
Department of Homeland Security, Cybersecurity and Infrastructure Security Agency (054)	13	14	6	9.9	-55.4

na = not applicable.

RDT&E = research, development, test, and evaluation.

^a Totals for development spending across all years do not include Department of Defense (DOD) Budget Activity 7 (BA-7) (Operational Systems Development) due to implementation of the narrowed definition of development described by the Office of Management and Budget (OMB) in its Circular A-11 of July 2016. These BA-7 funds support development efforts to upgrade systems that have been fielded or have received approval for full-rate production and anticipate production funding in the current or subsequent fiscal year.

^b This item includes appropriate personnel costs in direct support of conduct of R&D, other appropriations funding certain DOD programs, and medical research funded outside RDT&E accounts. Includes \$415 million in emergency RDT&E funding for the coronavirus (COVID-19) activities in FY 2020.

Note(s):

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

Source(s):

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