TABLE 11

Preliminary Department of Defense obligations for research, development, test, and evaluation, by agency and performer: FY 2022

(Dollars in millions)

Agency	Total	Intramural		Extramural				
				United States and U.S. territories				Non-U.S. performers
		Federal agencies[a]	FFRDCs	Businesses	Higher education[b]	Nonprofit organizations	State and local governments	
Department of Defense								
RDT&E	113,647	31,090	4,154	71,388	4,993	1,701	18	302
Total research	10,377	2,922	1,054	3,139	2,750	412	8	93
Basic research	2,977	629	72	511	1,602	104	4	56
Applied research	7,401	2,294	982	2,628	1,148	308	4	37
Total experimental development[c]	65,096	23,940	2,444	35,253	2,028	1,217	10	202
Advanced technology	10,488	3,092	261	4,866	1,205	931	2	131
Major systems	54,608	20,848	2,183	30,387	823	287	8	71
Total operational systems development[d]	38,173	4,228	656	32,996	214	72	0	7
Defense Advanced Research Projects Agency								
RDT&E	3,809	288	108	2,532	675	175	*	31
Total research	1,997	106	78	1,015	609	158	*	31
Basic research	513	18	25	141	276	43	0	11
Applied research	1,484	89	53	874	334	115	*	19
Total experimental development[c]	1,812	182	30	1,518	65	17	0	0
Advanced technology	1,639	117	30	1,409	65	17	0	0
Major systems	173	65	0	108	0	*	0	0
Total operational systems development[d]	0	0	0	0	0	0	0	0
Defense Health Agency								
RDT&E	2,558	611	6	352	823	698	0	67
Total research	174	48	3	33	44	46	0	1
Basic research	16	4	*	6	2	3	0	0
Applied research	159	43	2	27	42	43	0	1
Total experimental development[c]	2,363	554	3	309	778	653	0	66
Advanced technology	1,668	44	3	212	750	596	0	63
Major systems	695	509	*	98	28	57	0	3
Total operational systems development[d]	21	10	*	10	*	0	0	0
Department of the Air Force								
RDT&E	35,455	6,812	1,110	26,497	931	77	2	26
Total research	2,422	659	86	877	738	34	2	26
Basic research	725	60	2	75	560	4	0	24
Applied research	1,697	599	84	802	178	31	2	2
Total experimental development[c]	10,823	4,168	508	5,956	161	30	*	0
Advanced technology	990	217	10	702	53	6	*	0
Major systems	9,833	3,951	497	5,254	108	23	0	0
Total operational systems development[d]	22,210	1,985	516	19,664	31	13	0	0

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Preliminary Department of Defense obligations for research, development, test, and evaluation, by agency and performer: FY 2022

(Dollars in millions)

Agency	Total	Intramural		Extramural				
				United States and U.S. territories				
		Federal agencies[a]	FFRDCs	Businesses	Higher education[b]	Nonprofit organizations	State and local governments	Non-U.S. performers
Department of the Army								
RDT&E	14,384	6,645	161	6,665	594	262	0	56
Total research	2,089	981	54	536	457	50	0	11
Basic research	586	196	32	78	260	13	0	7
Applied research	1,502	785	22	458	197	36	0	4
Total experimental development[c]	10,845	4,897	104	5,468	137	200	0	40
Advanced technology	2,127	1,080	34	888	84	40	0	2
Major systems	8,718	3,817	70	4,580	53	160	0	38
Total operational systems development[d]	1,450	767	4	661	*	13	0	6
Department of the Navy								
RDT&E	21,485	9,089	224	10,559	1,312	253	6	41
Total research	2,082	857	19	284	789	104	6	24
Basic research	852	323	*	29	443	40	4	13
Applied research	1,230	534	18	255	346	64	2	10
Total experimental development[c]	16,587	7,287	173	8,596	390	123	*	17
Advanced technology	1,005	403	7	394	104	96	0	1
Major systems	15,582	6,884	167	8,202	287	27	*	16
Total operational systems development[d]	2,816	945	32	1,679	133	26	0	1
Space Force								
RDT&E	9,977	365	304	9,258	38	6	7	0
Total research	76	7	6	59	5	0	0	0
Basic research	76	7	6	59	5	0	0	0
Applied research	0	0	0	0	0	0	0	0
Total experimental development[c]	4,517	274	228	3,992	15	0	7	0
Advanced technology	0	0	0	0	0	0	0	0
Major systems	4,517	274	228	3,992	15	0	7	0
Total operational systems development[d]	5,383	84	70	5,206	17	6	0	0
Other defense agencies								
RDT&E	25,979	7,281	2,241	15,525	620	230	3	80
Total research	1,537	265	809	335	107	20	0	1
Basic research	209	21	5	123	57	1	0	1
Applied research	1,329	244	803	212	50	19	0	*
Total experimental development[c]	18,149	6,579	1,398	9,415	481	195	3	79
Advanced technology	3,060	1,230	177	1,261	149	176	2	64
Major systems	15,089	5,348	1,221	8,154	332	19	1	15
Total operational systems development[d]	6,293	437	34	5,776	32	14	0	0

* = amount greater than $0 but less than $500,000.

FFRDC = federally funded research and development center; RDT&E = research, development, test, and evaluation.

[a] Federal agencies' activities cover costs associated with the administration of federal R&D performance and R&D procurements from nonfederal performers by federal personnel, transfers of funds to other federal agencies for purposes related to R&D, and actual federal performance.

[b] Higher education includes both public and private institutions as well as University Affiliated Research Centers.

[c] Department of Defense (DOD) development obligations have been reported in two categories, advanced technology and major systems, since volume 44 (FYs 1994–96). As of volume 66 (FYs 2016–17), the definition of major systems development was changed to represent DOD Budget Activities 4 through 6 instead of Budget Activities 4 through 7.

[d] Funding for DOD's Operational Systems Development (Budget Activity 7) was first reported as a separate category for volume 66.

Note(s):
Because of rounding, detail may not add to total. As of volume 71 (FYs 2021–22), FFRDCs are classified as intramural R&D performers, whereas they were extramural in previous volumes; therefore, data are not directly comparable across volumes. Past years in the trend tables have been adjusted to reflect the current classification of FFRDCs. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. FY 2022 obligations include additional funding provided by supplemental COVID-19 pandemic-related appropriations (e.g., Coronavirus Aid, Relief, and Economic Security [CARES] Act). See technical table A-2 for additional notes associated with the agencies listed in this table.

Source(s):
National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2021–22.