

TABLE 10

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

(Dollars in millions)

Agency	Total	Intramural		Extramural				
		Federal agencies <sup>a</sup>	FFRDCs	United States and U.S. territories				Non-U.S. performers
				Businesses	Higher education <sup>b</sup>	Nonprofit organizations	State and local governments	
Department of Defense								
RDT&E	115,948	30,856	4,050	74,042	4,905	1,814	26	255
Total research	10,166	3,744	866	2,472	2,478	526	17	62
Basic research	3,150	650	158	523	1,531	238	16	34
Applied research	7,016	3,094	708	1,949	947	288	1	28
Total experimental development <sup>c</sup>	62,186	22,903	2,156	33,631	2,143	1,167	8	178
Advanced technology	10,138	3,428	592	3,874	1,303	807	2	134
Major systems	52,048	19,475	1,565	29,757	841	359	6	44
Total operational system development <sup>d</sup>	43,596	4,209	1,028	37,939	283	122	0	16
Defense Advanced Research Projects Agency								
RDT&E	3,609	299	156	2,355	619	154	*	25
Total research	1,798	98	100	923	512	143	*	21
Basic research	440	16	24	141	201	48	0	10
Applied research	1,358	83	76	783	310	95	*	11
Total experimental development <sup>c</sup>	1,811	201	56	1,432	107	11	0	4
Advanced technology	1,574	128	56	1,269	107	10	0	4
Major systems	236	73	0	163	*	*	0	0
Total operational system development <sup>d</sup>	0	0	0	0	0	0	0	0
Defense Health Agency								
RDT&E	2,157	153	9	454	868	609	0	64
Total research	145	26	2	32	36	43	0	7
Basic research	11	1	*	2	2	6	0	0
Applied research	135	25	2	30	34	37	0	7
Total experimental development <sup>c</sup>	1,991	124	8	405	832	565	0	57
Advanced technology	1,724	96	7	212	818	533	0	57
Major systems	267	28	1	193	14	31	0	0
Total operational system development <sup>d</sup>	20	2	0	17	*	1	0	0
Department of the Air Force								
RDT&E	40,283	9,229	1,075	28,856	802	312	10	*
Total research	2,926	2,053	47	31	586	197	10	0
Basic research	970	251	0	20	529	160	10	0
Applied research	1,956	1,803	47	11	57	37	*	0
Total experimental development <sup>c</sup>	10,973	5,097	517	5,070	179	110	0	0
Advanced technology	952	814	2	60	30	45	0	0
Major systems	10,021	4,283	515	5,009	149	65	0	0
Total operational system development <sup>d</sup>	26,385	2,079	510	23,755	37	4	0	*

TABLE 10

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

(Dollars in millions)

Agency	Total	Intramural		Extramural				
		Federal agencies <sup>a</sup>	FFRDCs	United States and U.S. territories				Non-U.S. performers
				Businesses	Higher education <sup>b</sup>	Nonprofit organizations	State and local governments	
Department of the Army								
RDT&E	13,365	5,082	128	7,140	589	373	*	54
Total research	1,804	562	9	778	398	47	0	10
Basic research	514	105	*	138	250	13	0	7
Applied research	1,290	458	8	639	149	34	0	3
Total experimental development <sup>c</sup>	10,256	3,924	115	5,709	189	288	*	32
Advanced technology	1,821	670	20	921	103	98	0	10
Major systems	8,435	3,255	95	4,788	85	190	*	23
Total operational system development <sup>d</sup>	1,305	595	5	653	2	38	0	12
Department of the Navy								
RDT&E	20,881	8,512	249	10,501	1,330	240	7	42
Total research	1,739	596	20	304	730	61	7	22
Basic research	662	218	1	31	383	9	6	14
Applied research	1,077	378	19	272	348	51	1	8
Total experimental development <sup>c</sup>	15,749	6,885	192	8,061	459	132	*	19
Advanced technology	904	311	9	395	101	88	0	1
Major systems	14,845	6,574	183	7,666	359	44	*	18
Total operational system development <sup>d</sup>	3,394	1,032	38	2,136	140	47	0	1
Space Force								
RDT&E	9,996	530	343	9,046	50	21	6	0
Total research	175	105	11	55	4	0	0	0
Basic research	71	6	6	55	4	0	0	0
Applied research	104	99	6	0	0	0	0	0
Total experimental development <sup>c</sup>	4,776	309	264	4,151	31	15	6	0
Advanced technology	0	0	0	0	0	0	0	0
Major systems	4,776	309	264	4,151	31	15	6	0
Total operational system development <sup>d</sup>	5,045	116	67	4,840	15	6	0	0
Other defense agencies								
RDT&E	25,657	7,051	2,091	15,690	647	106	2	70
Total research	1,579	304	678	349	212	34	0	2
Basic research	482	54	127	136	163	1	0	2
Applied research	1,096	250	551	214	49	33	0	*
Total experimental development <sup>c</sup>	16,631	6,362	1,007	8,803	346	47	2	65
Advanced technology	3,163	1,409	499	1,016	143	32	2	62
Major systems	13,468	4,953	507	7,787	204	14	*	3
Total operational system development <sup>d</sup>	7,447	385	407	6,538	89	25	0	3

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

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

<sup>a</sup> 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.

<sup>b</sup> Higher education includes both public and private institutions as well as University Affiliated Research Centers.

<sup>c</sup> 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.

<sup>d</sup> Funding for DOD's Operational System 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. 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 2022–23.