TABLE 10

Department of Defense obligations for research, development, test, and evaluation, by agency and performer: FY 2021 (Dollars in millions)

Agency	Total	Intramural						
				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 Defense								
RDT&E	106,018	28,672	4,185	66,419	4,829	1,596	12	304
Total research	9,735	2,479	1,118	3,019	2,622	404	3	90
Basic research	2,835	483	76	532	1,596	93	1	55
Applied research	6,901	1,996	1,042	2,487	1,026	312	2	35
Total experimental								
development ^c	60,971	21,955	2,384	33,287	2,004	1,127	9	206
Advanced technology	9,241	2,683	238	4,303	1,100	791	2	124
Major systems	51,731	19,272	2,146	28,984	904	336	7	82
Total operational								
systems development ^d	35,311	4,238	683	30,113	204	65	0	8
Defense Advanced Research Projects Agency								
RDT&E	3,606	279	101	2,397	637	163	*	29
Total research	1,845	97	72	926	574	146	*	29
Basic research	510	17	25	140	274	42	0	11
Applied research	1,336	80	47	786	301	104	*	17
Total experimental								
development ^c	1,761	182	29	1,470	63	16	0	C
Advanced								
technology	1,576	113	29	1,355	63	16	0	C
Major systems	185	69	0	115	0	*	0	C
Total operational	_	_	_	_	_	_	_	_
systems development ^d	0	0	0	0	0	0	0	C
Defense Health Agency								
RDT&E	2,873	1,041	6	344	762	658	0	62
Total research	133	16	3	18	42	52	0	2
Basic research	18	7	*	•	2	3	0	C
Applied research	115	9	3	12	40	50	0	2
Total experimental	0.740	1010			700			
development ^c	2,719	1,012	3	318	720	606	0	60
Advanced	1,531	77	3	190	685	518	0	57
Major systems	1,188	934	*		35	87	0	37
Total operational	1,100	934		129	33	07	0	
systems development ^d	21	13	*	8	*	0	0	C
Department of the Air Force		10		0				
RDT&E	32,691	6,193	1,081	24,432	876	81	2	26
Total research	2,387	650	86	871	707	46	2	26
Basic research	703	57	2	74	543	4	0	23
Applied research	1,684	593	84		164	42	2	2
Total experimental	,	220		,			_	
development ^C	10,003	3,793	488	5,547	146	28	*	(
Advanced	2,300	5,. 20		-,0 .7				
technology	1,055	215	10	771	53	6	*	C
Major systems	8,948	3,578	478	4,777	93	23	0	C
Total operational systems development ^d	20,301	1,750	506	18,014	23	7	0	· ·

TABLE 10

Department of Defense obligations for research, development, test, and evaluation, by agency and performer: FY 2021 (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	13,660	6,317	149	6,354	542	244	0	54
Total research	1,914	898	50	491	420	45	0	10
Basic research	542	181	30	72	240	12	0	6
Applied research	1,372	717	20	419	180	33	0	3
Total experimental								
development ^c	10,007	4,499	95	5,071	122	183	0	37
Advanced technology	1,842	935	29	769	73	34	0	2
Major systems	8,166	3,564	66	4,302	49	149	0	30
Total operational								
systems development ^d	1,739	920	4	792	*	16	0	-
Department of the Navy								
RDT&E	19,762	8,008	242	9,989	1,245	228	1	50
Total research	1,654	553	19	301	689	70	1	2
Basic research	631	189	*	33	382	14	1	1.
Applied research	1,023	365	18	268	306	56	*	10
Total experimental								
development ^c	15,080	6,485	175	7,811	443	139	*	2
Advanced								
technology	871	291	8	383	94	94	0	
Major systems	14,208	6,194	166	7,428	349	45	*	2
Total operational								
systems development ^d	3,028	969	48	1,877	114	20	0	
Space Force								
RDT&E	9,639	312	331	8,925	55	10	6	
Total research	98	9	8	76	6	0	0	
Basic research	98	9	8	76	6	0	0	
Applied research	0	0	0	0	0	0	0	
Total experimental								
development ^c	5,243	228	247	4,725	32	5	6	
Advanced technology	0	0	0	0	0	0	0	
Major systems	5,243	228	247	4,725	32	5	6	
Total operational								
systems development ^d	4,298	76	76	4,125	17	5	0	(
Other defense agencies								
RDT&E	23,787	6,523	2,275	13,978	711	212	3	84
Total research	1,704	256	880	336	184	45	0	;
Basic research	333	23	11	131	148	18	0	;
Applied research	1,371	233	870	206	35	27	0	
Total experimental								
development ^c	16,159	5,757	1,346	8,343	478	150	3	8
Advanced								
technology	2,366	1,053	158	835	132	122	2	6-
Major systems	13,793	4,705	1,188	7,508	346	27	1	1
Total operational systems development ^d	5,924	510	49	5,298	49	17	0	

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* = 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 2021 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.