

TABLE 10

Preliminary Department of Defense obligations for research, development, test, and evaluation, by agency and performer: FY 2020

(Dollars in millions)

Agency	Total	Intramural ^a	Extramural							
			United States and U.S. territories							Foreign
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	
Department of Defense										
RDT&E	99,764.3	30,038.7	62,678.7	550.6	3,433.2	480.2	1,103.8	840.3	12.5	626.3
Total research	8,464.9	2,584.9	2,957.6	67.8	2,214.0	93.1	353.4	75.3	4.0	114.9
Basic research	2,564.7	575.5	380.8	14.1	1,381.2	7.9	95.3	27.4	2.7	79.8
Applied research	5,900.2	2,009.4	2,576.8	53.7	832.8	85.1	258.0	47.9	1.3	35.2
Total experimental development ^b	53,996.4	19,241.5	31,235.7	336.5	1,106.4	352.7	657.1	613.0	8.0	445.5
Advanced technology	7,301.8	2,746.7	3,543.5	71.4	314.7	79.0	446.0	50.1	1.0	49.5
Major systems	46,694.6	16,494.8	27,692.2	265.1	791.7	273.8	211.1	562.9	7.0	396.0
Total operational systems development ^c	37,303.0	8,212.3	28,485.4	146.3	112.8	34.4	93.4	152.1	0.5	65.8
Defense Advanced Research Projects Agency										
RDT&E	3,667.2	395.5	2,268.5	42.7	667.7	62.3	145.7	31.0	0.8	53.1
Total research	1,994.8	94.3	1,027.4	28.7	621.2	30.7	128.9	22.8	0.8	40.1
Basic research	481.6	15.0	139.3	8.8	244.4	6.0	41.4	7.8	0.0	18.9
Applied research	1,513.2	79.3	888.0	19.9	376.8	24.7	87.5	15.0	0.8	21.1
Total experimental development ^b	1,672.4	301.2	1,241.1	14.0	46.5	31.6	16.8	8.2	0.0	13.0
Advanced technology	1,536.9	219.9	1,186.9	14.0	46.5	31.6	16.8	8.2	0.0	13.0
Major systems	135.5	81.3	54.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total operational systems development ^c	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Air Force										
RDT&E	42,703.4	6,210.5	35,083.2	183.1	540.3	80.4	71.1	356.3	7.2	171.4
Total research	2,164.8	957.4	686.2	2.4	444.5	2.3	35.2	6.0	0.5	30.3
Basic research	503.4	88.3	54.6	0.1	326.7	0.2	3.1	1.0	0.0	29.5
Applied research	1,661.3	869.1	631.6	2.2	117.8	2.2	32.1	5.0	0.5	0.9
Total experimental development ^b	13,457.0	3,632.9	9,202.0	122.7	77.4	48.3	15.5	232.0	6.2	120.0
Advanced technology	942.3	410.1	498.5	0.7	17.1	0.2	7.0	8.6	0.1	0.0

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			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	
Major systems	12,514.7	3,222.8	8,703.5	121.9	60.3	48.1	8.6	223.4	6.1	120.0
Total operational systems development ^c	27,081.6	1,620.1	25,195.0	58.1	18.4	29.7	20.4	118.3	0.5	21.1
Department of the Army										
RDT&E	12,559.2	4,840.4	6,729.0	9.8	523.6	28.8	294.9	70.0	2.1	60.4
Total research	1,812.8	650.9	693.7	0.5	364.7	2.4	73.5	14.0	2.1	10.8
Basic research	550.9	177.3	73.1	0.0	265.0	0.2	13.5	10.9	2.1	8.8
Applied research	1,262.0	473.6	620.6	0.5	99.7	2.2	60.0	3.2	0.0	2.0
Total experimental development ^b	8,941.9	3,409.8	5,067.2	9.3	147.9	25.1	182.7	53.1	*	46.9
Advanced technology	1,498.1	629.1	742.2	*	63.2	4.0	51.3	2.2	0.0	6.1
Major systems	7,443.8	2,780.8	4,324.9	9.3	84.7	21.0	131.4	50.9	*	40.8
Total operational systems development ^c	1,804.4	779.6	968.2	0.0	11.1	1.3	38.7	2.9	0.0	2.7
Department of the Navy										
RDT&E	19,950.7	8,049.0	10,235.7	163.4	1,040.8	48.4	256.6	101.0	1.0	54.7
Total research	1,546.8	523.6	294.9	6.5	587.6	1.7	92.9	9.0	0.6	30.0
Basic research	637.1	177.7	21.4	0.1	380.6	0.3	33.9	0.9	0.6	21.5
Applied research	909.7	345.9	273.5	6.4	207.0	1.3	59.0	8.1	0.0	8.5
Total experimental development ^b	15,240.2	6,189.6	8,303.0	83.4	389.3	43.4	133.5	75.7	0.4	21.7
Advanced technology	982.0	404.3	407.7	1.1	66.8	0.2	94.6	6.1	0.3	0.8
Major systems	14,258.2	5,785.3	7,895.3	82.4	322.5	43.2	39.0	69.6	0.1	20.8
Total operational systems development ^c	3,163.6	1,335.9	1,637.7	73.5	63.8	3.3	30.1	16.3	0.0	3.0
Other defense agencies										
RDT&E	20,883.9	10,543.4	8,362.3	151.6	660.8	260.2	335.6	282.1	1.3	286.6
Total research	945.8	358.7	255.4	29.7	196.0	55.9	22.8	23.5	0.0	3.7
Basic research	391.8	117.2	92.4	5.1	164.6	1.2	3.4	6.9	0.0	1.1
Applied research	554.0	241.5	163.0	24.6	31.4	54.7	19.5	16.6	0.0	2.6
Total experimental development ^b	14,684.8	5,707.9	7,422.4	107.1	445.3	204.3	308.6	244.0	1.3	243.9

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Advanced technology	2,342.5	1,083.3	708.1	55.5	121.1	42.9	276.4	25.1	0.5	29.6
Major systems	12,342.3	4,624.7	6,714.2	51.6	324.2	161.4	32.2	218.9	0.8	214.3
Total operational systems development ^c	5,253.3	4,476.7	684.5	14.8	19.5	0.0	4.2	14.6	0.0	38.9

* = amount greater than \$0 but less than \$50,000.

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

^a Intramural activities cover costs associated with the administration of intramural R&D programs and extramural R&D procurements by federal personnel as well as actual intramural performance.^b 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.^c 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. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. FY 2020 preliminary data do not include obligations from supplemental COVID-19 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 2019–20.