

TABLE 51

Federal obligations for experimental development, by agency and performer: FY 2020

(Dollars in thousands)

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	
All agencies	82,098,024.1	31,899,441.9	41,399,523.3	606,245.6	3,067,267.2	1,491,966.0	1,508,223.6	1,159,540.9	75,354.2	890,461.2
Departments										
Department of Agriculture	255,231.2	231,087.8	0.0	0.0	22,028.3	0.0	1,642.5	0.0	29.9	442.6
Agricultural Marketing Service	3,476.3	3,476.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	142,352.9	124,789.7	0.0	0.0	15,659.5	0.0	1,431.2	0.0	29.9	442.6
Animal and Plant Health Inspection Service	20,679.0	14,365.1	0.0	0.0	6,313.9	0.0	0.0	0.0	0.0	0.0
Forest Service	84,725.4	84,725.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	3,997.7	3,731.3	0.0	0.0	55.0	0.0	211.4	0.0	0.0	0.0
Department of Commerce	260,931.6	171,123.4	4,953.7	0.0	55,629.4	4,137.2	23,474.3	293.0	1,318.6	2.0
National Institute of Standards and Technology	17,451.8	7,347.6	492.0	0.0	8,396.2	0.0	1,215.9	0.0	0.0	0.0
National Oceanic and Atmospheric Administration	170,290.0	90,586.0	4,461.7	0.0	47,233.1	4,137.2	22,258.4	293.0	1,318.6	2.0
U.S. Census Bureau	73,189.8	73,189.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense, total experimental development	57,779,715.3	20,211,659.3	32,055,821.6	357,310.9	2,097,756.7	381,227.5	1,061,832.8	751,004.8	7,334.0	855,767.7
Defense Advanced Research Projects Agency	1,657,985.0	221,017.2	1,316,185.7	5,078.0	63,314.5	14,520.5	22,169.5	8,889.8	0.0	6,809.8
Defense Health Agency	2,706,390.7	1,064,339.7	361,355.7	0.0	661,828.0	308.0	581,032.1	1,566.5	301.5	35,659.2
Department of the Air Force	9,434,381.0	3,574,374.8	5,537,577.7	133,056.9	84,279.1	25,505.9	32.8	79,477.0	25.6	51.2
Department of the Army	8,879,700.4	3,155,676.2	4,810,048.5	760.8	510,035.7	11,103.1	176,763.1	172,992.6	0.0	42,320.4
Department of the Navy	17,416,147.9	6,773,209.1	9,822,948.7	63,320.4	384,335.3	37,178.8	204,288.5	98,988.9	232.5	31,645.7
U.S. Space Force	4,385,666.9	134,756.4	3,872,287.8	9,199.5	17,685.9	49,028.8	1,157.3	188,577.1	5,244.1	107,729.9
Other defense agencies	13,299,443.5	5,288,285.9	6,335,417.4	145,895.3	376,278.2	243,582.4	76,389.5	200,513.0	1,530.2	631,551.5
Department of Defense, advanced technology	8,600,278.9	2,367,232.8	4,025,684.0	61,437.0	1,059,111.5	72,100.7	779,232.4	123,512.9	1,796.8	110,170.7
Defense Advanced Research Projects Agency	1,489,154.0	154,884.7	1,214,025.0	5,078.0	63,314.5	14,520.5	21,631.8	8,889.8	0.0	6,809.8
Defense Health Agency	1,706,000.9	250,647.8	226,415.2	0.0	647,835.2	308.0	547,396.1	1,566.5	301.5	31,530.6
Department of the Air Force	952,223.4	176,026.3	734,474.6	3,061.2	29,897.4	652.6	32.8	8,053.0	25.6	0.0
Department of the Army	1,487,372.0	405,873.7	803,203.5	153.2	127,878.2	3,769.5	56,090.5	71,683.1	0.0	18,720.2

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			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments		
Department of the Navy	883,034.3	304,350.0	363,890.2	3,101.0	86,771.4	1,015.8	117,778.1	4,763.4	0.0	1,364.5	
Other defense agencies	2,082,494.3	1,075,450.3	683,675.6	50,043.7	103,414.9	51,834.4	36,303.2	28,557.1	1,469.7	51,745.6	
Department of Defense, major systems	49,179,436.4	17,844,426.5	28,030,137.6	295,873.9	1,038,645.2	309,126.8	282,600.5	627,491.9	5,537.2	745,597.0	
Defense Advanced Research Projects Agency	168,831.0	66,132.5	102,160.7	0.0	0.0	0.0	537.8	0.0	0.0	0.0	
Defense Health Agency	1,000,389.8	813,691.8	134,940.5	0.0	13,992.8	0.0	33,636.0	0.0	0.0	4,128.6	
Department of the Air Force	8,482,157.6	3,398,348.5	4,803,103.2	129,995.7	54,381.7	24,853.3	0.0	71,424.0	0.0	51.2	
Department of the Army	7,392,328.4	2,749,802.5	4,006,845.0	607.6	382,157.5	7,333.6	120,672.6	101,309.4	0.0	23,600.2	
Department of the Navy	16,533,113.6	6,468,859.1	9,459,058.6	60,219.4	297,563.9	36,163.0	86,510.4	94,225.5	232.5	30,281.2	
U.S. Space Force	4,385,666.9	134,756.4	3,872,287.8	9,199.5	17,685.9	49,028.8	1,157.3	188,577.1	5,244.1	107,729.9	
Other defense agencies	11,216,949.2	4,212,835.7	5,651,741.8	95,851.7	272,863.4	191,748.0	40,086.4	171,955.9	60.5	579,805.9	
Department of Education	50,651.8	2,111.9	11,088.2	0.0	32,798.4	0.0	3,645.6	0.0	1,007.7	0.0	
Department of Energy	2,927,857.4	59,818.4	1,842,597.6	243,099.0	347,444.3	87,965.0	30,738.0	305,528.5	10,601.6	65.0	
Advanced Research Projects Agency—Energy	218,999.6	0.0	82,684.5	9,196.1	90,770.6	7,979.8	13,413.7	14,954.8	0.0	0.0	
Electricity Delivery and Energy Reliability	61,436.9	1,404.5	4,048.7	16,783.6	7,286.4	3,696.1	4,294.4	23,733.5	189.7	0.0	
Energy Efficiency and Renewable Energy	847,875.0	0.0	261,137.0	56,647.2	210,657.2	69,102.8	0.0	239,918.9	10,411.9	0.0	
Environmental Management	14,860.1	0.0	5,329.4	8,364.9	646.6	0.0	519.3	0.0	0.0	0.0	
National Nuclear Security Administration	1,590,050.3	56,840.8	1,415,807.4	100,180.5	0.0	3,563.0	57.6	13,601.0	0.0	0.0	
Defense Programs	143,111.6	6,526.1	64,852.8	70,360.1	0.0	0.0	57.6	1,315.0	0.0	0.0	
Naval Nuclear Propulsion Program	1,387,442.2	50,314.7	1,336,147.5	890.0	0.0	0.0	0.0	90.0	0.0	0.0	
Office of Defense Nuclear Nonproliferation	59,496.5	0.0	14,807.1	28,930.4	0.0	3,563.0	0.0	12,196.0	0.0	0.0	
Nuclear Energy	180,816.4	207.2	73,590.6	51,926.6	38,083.5	3,623.3	0.0	13,320.2	0.0	65.0	
Office of Cybersecurity, Energy Security, and Emergency Response	13,819.0	1,366.0	0.0	0.0	0.0	0.0	12,453.0	0.0	0.0	0.0	
Department of Health and Human Services	15,772,003.4	9,965,951.6	5,274,477.6	0.0	324,892.6	0.0	187,071.8	11,856.9	7,753.1	0.0	

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Administration for Community Living	19,598.4	0.0	2,404.9	0.0	14,209.4	0.0	2,860.0	0.0	124.2	0.0
Agency for Healthcare Research and Quality	29,855.0	29,855.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomedical Advanced Research and Development Authority	15,666,447.5	9,929,976.9	5,270,588.4	0.0	273,513.7	0.0	173,621.3	11,856.9	6,890.2	0.0
Centers for Disease Control and Prevention	56,102.6	6,119.7	1,484.3	0.0	37,169.5	0.0	10,590.5	0.0	738.7	0.0
Department of Homeland Security	282,238.0	67,571.4	176,129.6	5,835.7	10,799.0	0.0	1,979.3	12,590.5	764.3	6,568.3
Countering Weapons of Mass Destruction Office	13,518.1	1,213.0	4,490.0	3,912.0	0.0	0.0	200.0	929.9	0.0	2,773.2
Cybersecurity and Infrastructure Security Agency	702.8	0.0	0.0	0.0	0.0	0.0	0.0	702.8	0.0	0.0
Science and Technology Directorate	228,937.2	62,909.6	136,023.5	1,923.7	10,799.0	0.0	1,779.3	10,957.9	764.3	3,779.8
Transportation Security Administration	22,900.0	0.0	22,900.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Coast Guard	3,464.0	3,448.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.3
U.S. Secret Service	12,716.0	0.0	12,716.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	138,925.7	115,401.2	3,202.1	0.0	16,419.3	429.2	1,019.4	0.0	2,065.2	389.3
Bureau of Land Management	7,032.0	4,171.0	724.0	0.0	1,705.0	0.0	339.0	0.0	93.0	0.0
Bureau of Ocean Energy Management	13,596.7	12,352.8	794.1	0.0	49.8	0.0	0.0	0.0	400.0	0.0
Bureau of Reclamation	8,306.3	2,509.5	229.6	0.0	4,598.5	429.2	260.0	0.0	279.4	0.0
Bureau of Safety and Environmental Enforcement	2,699.7	941.0	1,137.9	0.0	231.5	0.0	0.0	0.0	0.0	389.3
U.S. Geological Survey	107,291.0	95,426.9	316.5	0.0	9,834.4	0.0	420.4	0.0	1,292.8	0.0
Department of Justice	11,912.3	3,188.0	0.0	0.0	3,006.5	0.0	599.4	0.0	5,118.4	0.0
Bureau of Prisons	6,333.0	1,505.0	0.0	0.0	0.0	0.0	0.0	0.0	4,828.0	0.0
Office of Justice Programs	5,579.3	1,683.0	0.0	0.0	3,006.5	0.0	599.4	0.0	290.4	0.0
Department of State	10,000.0	10,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	283,953.4	47,185.3	111,841.9	0.0	14,870.2	0.0	2,426.3	68,285.9	39,343.8	0.0
Federal Aviation Administration	184,921.8	17,127.6	89,157.7	0.0	9,947.5	0.0	403.1	68,285.9	0.0	0.0

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Federal Highway Administration	40,377.9	4,219.0	0.0	0.0	0.0	0.0	0.0	0.0	36,158.9	0.0
Federal Railroad Administration	11,587.6	3,128.7	6,373.2	0.0	1,738.1	0.0	347.6	0.0	0.0	0.0
Office of the Secretary of Transportation	22,235.0	19,000.1	0.0	0.0	50.0	0.0	0.0	0.0	3,184.9	0.0
Pipeline and Hazardous Materials Safety Administration	24,831.0	3,709.9	16,311.0	0.0	3,134.6	0.0	1,675.6	0.0	0.0	0.0
Department of the Treasury	10,966.1	0.0	10,966.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Engraving and Printing	10,966.1	0.0	10,966.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	29,332.5	29,332.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies										
Agency for International Development	59,438.1	2,975.0	10,098.1	0.0	13,770.6	0.0	17,593.6	0.0	0.0	15,000.8
Environmental Protection Agency	76,553.5	40,556.4	35,997.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	1,606.0	1,606.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	4,143,708.3	939,873.8	1,860,350.1	0.0	126,852.1	1,018,207.1	176,200.5	9,981.3	17.8	12,225.6
Nuclear Regulatory Commission	999.9	0.0	0.0	0.0	999.9	0.0	0.0	0.0	0.0	0.0
Tennessee Valley Authority	1,999.7	0.0	1,999.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0

FFRDC = federally funded research and development center.

^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.**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. Federal intramural amounts for the Biomedical Advanced Research and Development Authority are transfers to the other agencies in support of Operation Warp Speed. FYs 2020 obligations include additional funding provided by 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 2020–21.