

TABLE 52

Preliminary federal obligations for experimental development, by agency and performer: FY 2021

(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	94,309,779.9	43,440,277.9	42,030,639.0	984,235.0	3,421,580.5	1,328,555.9	1,598,045.0	1,189,605.4	63,636.3	253,204.8
Departments										
Department of Agriculture	229,078.5	209,661.1	0.0	0.0	17,720.2	0.0	1,342.8	0.0	22.4	332.0
Agricultural Marketing Service	3,500.3	3,500.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	158,700.0	145,527.6	0.0	0.0	11,744.6	0.0	1,073.4	0.0	22.4	332.0
Animal and Plant Health Inspection Service	20,884.0	14,972.6	0.0	0.0	5,911.4	0.0	0.0	0.0	0.0	0.0
Forest Service	41,674.2	41,674.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	4,320.0	3,986.3	0.0	0.0	64.2	0.0	269.5	0.0	0.0	0.0
Department of Commerce	360,341.5	146,261.6	3,135.7	0.0	97,793.5	3,216.0	109,061.8	0.0	870.6	2.2
National Institute of Standards and Technology	164,298.9	20,538.0	609.7	0.0	87,678.2	0.0	55,472.9	0.0	0.0	0.0
National Oceanic and Atmospheric Administration	145,704.0	75,385.0	2,526.0	0.0	10,115.3	3,216.0	53,588.8	0.0	870.6	2.2
U.S. Census Bureau	50,338.6	50,338.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense, total experimental development	60,047,756.2	20,604,325.6	33,998,522.0	428,040.5	2,362,596.8	284,899.7	1,338,013.0	798,692.8	7,629.8	225,036.0
Defense Advanced Research Projects Agency	1,705,207.0	223,458.8	1,356,487.3	5,268.3	65,687.2	15,064.6	22,952.8	9,222.9	0.0	7,065.0
Defense Health Agency	2,518,559.3	673,003.4	407,145.6	0.0	754,697.1	0.0	640,163.7	1,763.1	346.5	41,440.0
Department of the Air Force	9,103,443.6	3,513,015.6	5,189,174.2	220,294.9	83,872.6	21,570.2	31.6	75,413.5	24.7	46.2
Department of the Army	10,179,275.4	3,602,853.5	5,490,935.8	952.1	625,086.5	12,535.3	202,445.9	195,007.7	0.0	49,458.5
Department of the Navy	16,943,610.7	6,819,573.4	9,377,643.4	25,672.3	352,607.4	35,221.6	205,040.5	96,054.8	250.8	31,546.4
U.S. Space Force	5,038,943.1	217,870.0	4,526,503.1	5,139.7	14,530.5	34,765.1	9,166.0	209,725.8	5,972.8	15,270.1
Other defense agencies	14,558,717.1	5,554,550.9	7,650,632.5	170,713.3	466,115.4	165,742.9	258,212.5	211,504.9	1,035.0	80,209.8
Department of Defense, advanced technology	9,363,569.3	2,380,338.4	4,364,026.7	69,402.0	1,201,877.4	40,667.5	1,038,217.9	133,360.9	1,406.3	134,272.3
Defense Advanced Research Projects Agency	1,544,961.0	160,689.1	1,259,521.4	5,268.3	65,687.2	15,064.6	22,442.4	9,222.9	0.0	7,065.0
Defense Health Agency	1,759,098.5	150,612.9	246,789.8	0.0	737,541.8	0.0	585,666.1	1,763.1	346.5	36,378.3
Department of the Air Force	917,430.6	169,594.5	707,638.0	2,949.3	28,805.0	628.7	31.6	7,758.8	24.7	0.0
Department of the Army	1,895,199.2	517,161.5	1,023,436.4	195.2	162,941.5	4,803.0	71,470.1	91,338.2	0.0	23,853.2

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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	965,001.4	332,556.3	401,947.4	3,345.0	93,598.8	105.5	127,045.2	4,931.4	0.0	1,471.8	
Other defense agencies	2,281,878.6	1,049,724.0	724,693.7	57,644.1	113,303.1	20,065.6	231,562.5	18,346.6	1,035.0	65,504.0	
Department of Defense, major systems	50,684,186.9	18,223,987.2	29,634,495.2	358,638.6	1,160,719.3	244,232.2	299,795.1	665,331.9	6,223.6	90,763.8	
Defense Advanced Research Projects Agency	160,246.0	62,769.7	96,965.9	0.0	0.0	0.0	510.4	0.0	0.0	0.0	
Defense Health Agency	759,460.8	522,390.5	160,355.8	0.0	17,155.3	0.0	54,497.6	0.0	0.0	5,061.7	
Department of the Air Force	8,186,013.0	3,343,421.1	4,481,536.2	217,345.6	55,067.6	20,941.5	0.0	67,654.8	0.0	46.2	
Department of the Army	8,284,076.2	3,085,692.0	4,467,499.4	756.9	462,145.0	7,732.3	130,975.8	103,669.6	0.0	25,605.3	
Department of the Navy	15,978,609.3	6,487,017.1	8,975,696.1	22,327.3	259,008.6	35,116.1	77,995.3	91,123.4	250.8	30,074.6	
U.S. Space Force	5,038,943.1	217,870.0	4,526,503.1	5,139.7	14,530.5	34,765.1	9,166.0	209,725.8	5,972.8	15,270.1	
Other defense agencies	12,276,838.5	4,504,826.9	6,925,938.8	113,069.1	352,812.3	145,677.3	26,650.0	193,158.3	0.0	14,705.8	
Department of Education	117,456.0	2,772.1	14,620.2	0.0	65,600.1	0.0	16,003.7	0.0	18,459.9	0.0	
Department of Energy	3,599,863.7	127,815.7	2,228,242.1	549,844.4	302,747.1	80,024.8	28,711.2	273,663.4	8,815.0	0.0	
Advanced Research Projects Agency—Energy	213,500.0	0.0	80,608.1	8,965.2	88,491.2	7,779.4	13,076.9	14,579.2	0.0	0.0	
Electricity Delivery and Energy Reliability	69,160.0	1,581.0	4,557.6	16,127.0	8,202.4	6,927.1	4,834.3	26,717.0	213.5	0.0	
Energy Efficiency and Renewable Energy	700,450.0	0.0	215,731.6	46,797.7	174,029.0	57,087.5	0.0	198,202.8	8,601.5	0.0	
Environmental Management	19,619.0	0.0	5,417.7	4,154.3	8,139.3	1,017.4	0.0	890.2	0.0	0.0	
National Nuclear Security Administration	2,444,536.9	124,524.1	1,842,192.0	450,972.7	0.0	3,860.6	800.0	22,187.5	0.0	0.0	
Defense Programs	915,195.3	72,575.4	434,704.3	407,265.6	0.0	0.0	650.0	0.0	0.0	0.0	
Naval Nuclear Propulsion Program	1,443,427.0	51,948.7	1,390,498.2	890.0	0.0	0.0	0.0	90.0	0.0	0.0	
Office of Defense Nuclear Nonproliferation	85,914.6	0.0	16,989.5	42,817.1	0.0	3,860.6	150.0	22,097.5	0.0	0.0	
Nuclear Energy	130,166.9	46.6	79,735.1	22,827.6	13,118.3	3,352.8	0.0	11,086.6	0.0	0.0	
Office of Cybersecurity, Energy Security, and Emergency Response	22,431.0	1,664.0	0.0	0.0	10,767.0	0.0	10,000.0	0.0	0.0	0.0	
Department of Health and Human Services	25,454,278.8	21,098,238.1	3,891,572.0	0.0	438,684.1	0.0	24,921.8	0.0	862.9	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
Biomedical Advanced Research and Development Authority	25,378,577.8	21,092,118.4	3,887,682.8	0.0	387,305.2	0.0	11,471.4	0.0	0.0	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	300,598.4	69,814.2	190,549.4	6,350.0	11,514.0	0.0	2,150.0	18,070.7	1,000.0	1,150.0
Countering Weapons of Mass Destruction Office	10,837.4	1,621.0	2,107.4	4,350.0	514.0	0.0	150.0	1,944.9	0.0	150.0
Cybersecurity and Infrastructure Security Agency	1,125.8	0.0	0.0	0.0	0.0	0.0	0.0	1,125.8	0.0	0.0
Science and Technology Directorate	240,000.0	61,000.0	147,000.0	2,000.0	11,000.0	0.0	2,000.0	15,000.0	1,000.0	1,000.0
Transportation Security Administration	29,500.0	0.0	29,500.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Coast Guard	7,193.2	7,193.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Secret Service	11,942.0	0.0	11,942.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	143,376.2	117,388.8	3,386.0	0.0	17,127.6	500.0	782.2	0.0	3,781.6	409.9
Bureau of Land Management	3,601.0	1,765.0	86.0	0.0	1,587.0	0.0	153.0	0.0	10.0	0.0
Bureau of Ocean Energy Management	16,517.4	13,949.6	798.8	0.0	127.0	0.0	0.0	0.0	1,642.0	0.0
Bureau of Reclamation	8,350.0	1,300.0	1,000.0	0.0	5,000.0	500.0	200.0	0.0	350.0	0.0
Bureau of Safety and Environmental Enforcement	2,842.8	990.9	1,198.2	0.0	243.8	0.0	0.0	0.0	0.0	409.9
U.S. Geological Survey	112,065.0	99,383.4	303.0	0.0	10,169.8	0.0	429.2	0.0	1,779.6	0.0
Department of Justice	12,872.2	3,386.3	0.0	0.0	3,307.1	0.0	659.3	0.0	5,519.4	0.0
Bureau of Prisons	6,735.0	1,535.0	0.0	0.0	0.0	0.0	0.0	0.0	5,200.0	0.0
Office of Justice Programs	6,137.2	1,851.3	0.0	0.0	3,307.1	0.0	659.3	0.0	319.4	0.0
Department of State	13,000.0	13,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	303,264.0	50,853.9	131,627.9	0.0	14,440.4	0.0	1,939.7	87,741.1	16,661.1	0.0
Federal Aviation Administration	239,017.1	23,417.0	114,559.4	0.0	12,781.7	0.0	517.9	87,741.1	0.0	0.0
Federal Highway Administration	20,880.1	4,219.0	0.0	0.0	0.0	0.0	0.0	0.0	16,661.1	0.0
Federal Railroad Administration	11,847.8	3,198.9	5,568.5	0.0	1,658.7	0.0	1,421.7	0.0	0.0	0.0

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			United States and U.S. territories						State, local governments	
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs		
Office of the Secretary of Transportation	18,156.0	18,156.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pipeline and Hazardous Materials Safety Administration	13,363.0	1,863.0	11,500.0	0.0	0.0	0.0	0.0	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	31,806.7	31,806.7	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	117,380.3	59,031.0	58,349.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	1,469.5	1,469.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	3,501,846.6	901,478.3	1,486,982.8	0.0	73,879.2	959,915.4	56,865.8	11,437.5	13.7	11,273.9
Nuclear Regulatory Commission	2,399.9	0.0	0.0	0.0	2,399.9	0.0	0.0	0.0	0.0	0.0
Tennessee Valley Authority	2,587.3	0.0	2,587.3	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 2021 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.