

TABLE 5

**Federal obligations for research and experimental development, by agency and type of R&D: FY 2020**

(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Experimental development		
				Total	Advanced technology	Major systems
All agencies	167,402,781.5	41,546,622.0	43,758,135.4	82,098,024.1	na	na
Departments						
Department of Agriculture	2,643,630.0	1,163,827.8	1,224,571.1	255,231.2	na	na
Agricultural Marketing Service	6,952.5	0.0	3,476.3	3,476.3	na	na
Agricultural Research Service	1,423,528.8	711,764.4	569,411.5	142,352.9	na	na
Animal and Plant Health Inspection Service	39,761.1	19,082.1	0.0	20,679.0	na	na
Economic Research Service	81,718.0	0.0	81,718.0	0.0	na	na
Forest Service	342,010.7	84,828.8	172,456.5	84,725.4	na	na
National Agricultural Statistics Service	8,996.0	0.0	4,998.3	3,997.7	na	na
National Institute of Food and Agriculture	737,863.1	348,152.5	389,710.6	0.0	na	na
Rural Business-Cooperative Service	2,800.0	0.0	2,800.0	0.0	na	na
Department of Commerce	1,621,746.1	251,170.4	1,109,644.1	260,931.6	na	na
National Institute of Standards and Technology	734,875.4	251,170.4	466,253.3	17,451.8	na	na
National Oceanic and Atmospheric Administration	768,061.6	0.0	597,771.6	170,290.0	na	na
National Telecommunications and Information Administration	7,692.0	0.0	7,692.0	0.0	na	na
U.S. Census Bureau	111,117.0	0.0	37,927.3	73,189.8	na	na
Department of Defense	66,695,019.2	2,499,140.7	6,416,163.1	57,779,715.3	8,600,278.9	49,179,436.4
Defense Advanced Research Projects Agency	3,664,293.0	482,126.0	1,524,182.0	1,657,985.0	1,489,154.0	168,831.0
Defense Health Agency	2,870,444.1	10,689.1	153,364.3	2,706,390.7	1,706,000.9	1,000,389.8
Department of the Air Force	11,683,168.9	520,275.5	1,728,512.4	9,434,381.0	952,223.4	8,482,157.6
Department of the Army	10,786,387.9	523,981.7	1,382,705.8	8,879,700.4	1,487,372.0	7,392,328.4
Department of the Navy	19,113,840.9	640,949.7	1,056,743.3	17,416,147.9	883,034.3	16,533,113.6
U.S. Space Force	4,385,666.9	0.0	0.0	4,385,666.9	0.0	4,385,666.9
Other defense agencies	14,191,217.5	321,118.7	570,655.3	13,299,443.5	2,082,494.3	11,216,949.2
Department of Education	240,144.8	53,666.0	135,827.0	50,651.8	na	na
Department of Energy	13,453,045.1	5,501,609.3	5,023,578.5	2,927,857.4	na	na
Advanced Research Projects Agency—Energy	437,999.3	0.0	218,999.6	218,999.6	na	na
Electricity Delivery and Energy Reliability	139,788.5	13,038.1	65,313.5	61,436.9	na	na
Energy Efficiency and Renewable Energy	2,096,218.0	0.0	1,248,343.0	847,875.0	na	na
Environmental Management	22,179.3	0.0	7,319.2	14,860.1	na	na
Fossil Energy	679,345.0	33,967.0	645,378.0	0.0	na	na
National Nuclear Security Administration	3,983,652.3	114,311.8	2,279,290.3	1,590,050.3	na	na
Defense Programs	2,298,084.2	0.0	2,154,972.6	143,111.6	na	na
Naval Nuclear Propulsion Program	1,387,442.2	0.0	0.0	1,387,442.2	na	na
Office of Defense Nuclear Nonproliferation	298,126.0	114,311.8	124,317.7	59,496.5	na	na
Nuclear Energy	573,159.6	0.0	392,343.2	180,816.4	na	na
Office of Cybersecurity, Energy Security, and Emergency Response	50,731.0	1,153.0	35,759.0	13,819.0	na	na
Office of Science	5,469,972.1	5,339,139.4	130,832.7	0.0	na	na
Department of Health and Human Services	60,005,740.4	21,808,980.1	22,424,756.9	15,772,003.4	na	na
Administration for Children and Families	1,574.4	0.0	1,574.4	0.0	na	na
Administration for Community Living	90,413.3	0.0	70,814.9	19,598.4	na	na

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Agency for Healthcare Research and Quality	338,000.0	0.0	308,145.0	29,855.0	na	na
Agency for Toxic Substances and Disease Registry	9,602.3	0.0	9,602.3	0.0	na	na
Biomedical Advanced Research and Development Authority	15,666,447.5	0.0	0.0	15,666,447.5	na	na
Centers for Disease Control and Prevention	496,836.6	69,564.7	371,169.4	56,102.6	na	na
Centers for Medicare and Medicaid Services	223,561.9	0.0	223,561.9	0.0	na	na
Food and Drug Administration	463,951.7	0.0	463,951.7	0.0	na	na
Health Resources and Services Administration	34,897.0	2,415.4	32,481.5	0.0	na	na
National Institutes of Health	42,664,000.0	21,737,000.0	20,927,000.0	0.0	na	na
Office of the Secretary of Health and Human Services	16,455.8	0.0	16,455.8	0.0	na	na
Office of the Assistant Secretary for Planning and Evaluation	16,455.8	0.0	16,455.8	0.0	na	na
Department of Homeland Security	507,458.4	47,365.5	177,854.9	282,238.0	na	na
Countering Weapons of Mass Destruction Office	37,479.0	6,114.3	17,846.6	13,518.1	na	na
Cybersecurity and Infrastructure Security Agency	7,657.2	0.0	6,954.5	702.8	na	na
Science and Technology Directorate	421,757.1	41,251.1	151,568.8	228,937.2	na	na
Transportation Security Administration	22,900.0	0.0	0.0	22,900.0	na	na
U.S. Coast Guard	4,949.0	0.0	1,485.0	3,464.0	na	na
U.S. Secret Service	12,716.0	0.0	0.0	12,716.0	na	na
Department of the Interior	837,240.9	83,859.9	614,455.3	138,925.7	na	na
Bureau of Indian Affairs	*	0.0	*	0.0	na	na
Bureau of Land Management	20,756.0	0.0	13,724.0	7,032.0	na	na
Bureau of Ocean Energy Management	72,851.0	0.0	59,254.3	13,596.7	na	na
Bureau of Reclamation	27,453.4	0.0	19,147.1	8,306.3	na	na
Bureau of Safety and Environmental Enforcement	7,922.5	1,017.1	4,205.7	2,699.7	na	na
National Park Service	10,231.0	865.9	9,365.1	0.0	na	na
Office of Surface Mining Reclamation and Enforcement	562.0	0.0	562.0	0.0	na	na
U.S. Fish and Wildlife Service	32,650.0	0.0	32,650.0	0.0	na	na
U.S. Geological Survey	664,815.0	81,977.0	475,547.0	107,291.0	na	na
Department of Justice	96,421.6	711.9	83,797.4	11,912.3	na	na
Bureau of Prisons	8,137.0	0.0	1,804.0	6,333.0	na	na
Federal Bureau of Investigation	4,732.7	0.0	4,732.7	0.0	na	na
Office of Justice Programs	83,551.9	711.9	77,260.7	5,579.3	na	na
Department of Labor	4,748.3	0.0	4,748.3	0.0	na	na
Employee Benefits Security Administration	2,745.6	0.0	2,745.6	0.0	na	na
Occupational Safety and Health Administration	2,002.7	0.0	2,002.7	0.0	na	na
Department of State	40,000.0	0.0	30,000.0	10,000.0	na	na
Department of Transportation	1,184,168.1	0.0	900,214.7	283,953.4	na	na
Federal Aviation Administration	431,897.3	0.0	246,975.5	184,921.8	na	na

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Federal Highway Administration	512,232.7	0.0	471,854.8	40,377.9	na	na
Federal Motor Carrier Safety Administration	8,918.1	0.0	8,918.1	0.0	na	na
Federal Railroad Administration	46,350.5	0.0	34,762.8	11,587.6	na	na
Federal Transit Administration	40,153.8	0.0	40,153.8	0.0	na	na
National Highway Traffic Safety Administration	68,862.5	0.0	68,862.5	0.0	na	na
Office of the Secretary of Transportation	34,374.9	0.0	12,139.9	22,235.0	na	na
Pipeline and Hazardous Materials Safety Administration	41,378.3	0.0	16,547.3	24,831.0	na	na
Department of the Treasury	60,614.1	5,625.1	44,022.9	10,966.1	na	na
Bureau of Engraving and Printing	60,394.8	5,521.0	43,907.7	10,966.1	na	na
U.S. Mint	219.3	104.1	115.2	0.0	na	na
Department of Veterans Affairs	1,565,108.2	617,719.0	918,056.7	29,332.5	na	na
Other agencies						
Administrative Office of the U.S. Courts	5,045.5	0.0	5,045.5	0.0	na	na
Agency for International Development	194,332.7	100.0	134,794.6	59,438.1	na	na
Appalachian Regional Commission	684.3	0.0	684.3	0.0	na	na
Consumer Product Safety Commission	385.0	0.0	385.0	0.0	na	na
Environmental Protection Agency	488,501.0	0.0	411,947.5	76,553.5	na	na
Federal Communications Commission	1,800.0	0.0	1,800.0	0.0	na	na
Federal Trade Commission	5,974.3	0.0	5,974.3	0.0	na	na
Library of Congress	2,821.2	0.0	1,215.2	1,606.0	na	na
National Aeronautics and Space Administration	10,537,844.9	3,839,375.2	2,554,761.5	4,143,708.3	na	na
National Science Foundation	6,351,154.7	5,461,915.4	889,239.3	0.0	na	na
Nuclear Regulatory Commission	69,194.9	1,795.7	66,399.3	999.9	na	na
Patient-Centered Outcomes Research Trust Fund	469,730.1	0.0	469,730.1	0.0	na	na
RESTORE Act Centers of Excellence Research Grants Program	9,220.3	0.0	9,220.3	0.0	na	na
Smithsonian Institution	209,760.0	209,760.0	0.0	0.0	na	na
Social Security Administration	69,740.0	0.0	69,740.0	0.0	na	na
Tennessee Valley Authority	8,444.6	0.0	6,444.9	1,999.7	na	na
U.S. Agency for Global Media	4,828.7	0.0	4,828.7	0.0	na	na
U.S. Postal Service	18,234.2	0.0	18,234.2	0.0	na	na

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

na = not applicable; data were not collected at this level of detail for this agency or subagency.

**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. 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.