

TABLE 6

**Preliminary federal obligations for research and experimental development, by agency and type of R&D: FY 2021**

(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Experimental development		
				Total	Advanced technology	Major systems
All agencies	179,465,235.7	41,231,293.0	43,924,162.8	94,309,779.9	na	na
Departments						
Department of Agriculture	2,738,037.5	1,236,053.6	1,272,905.4	229,078.5	na	na
Agricultural Marketing Service	7,000.5	0.0	3,500.3	3,500.3	na	na
Agricultural Research Service	1,587,000.0	793,500.0	634,800.0	158,700.0	na	na
Animal and Plant Health Inspection Service	41,930.0	21,046.0	0.0	20,884.0	na	na
Economic Research Service	87,000.0	0.0	87,000.0	0.0	na	na
Forest Service	264,915.0	73,307.6	149,933.1	41,674.2	na	na
National Agricultural Statistics Service	9,492.0	0.0	5,172.0	4,320.0	na	na
National Institute of Food and Agriculture	737,900.0	348,200.0	389,700.0	0.0	na	na
Rural Business-Cooperative Service	2,800.0	0.0	2,800.0	0.0	na	na
Department of Commerce	1,884,118.2	275,172.5	1,248,604.3	360,341.5	na	na
National Institute of Standards and Technology	966,371.4	275,172.5	526,900.1	164,298.9	na	na
National Oceanic and Atmospheric Administration	786,097.0	0.0	640,393.0	145,704.0	na	na
National Telecommunications and Information Administration	11,180.0	0.0	11,180.0	0.0	na	na
U.S. Census Bureau	120,469.8	0.0	70,131.2	50,338.6	na	na
Department of Defense	69,297,425.1	2,667,604.9	6,582,063.9	60,047,756.2	9,363,569.3	50,684,186.9
Defense Advanced Research Projects Agency	3,608,159.0	524,282.0	1,378,670.0	1,705,207.0	1,544,961.0	160,246.0
Defense Health Agency	2,718,049.0	10,415.6	189,074.1	2,518,559.3	1,759,098.5	759,460.8
Department of the Air Force	11,429,305.5	496,355.3	1,829,506.6	9,103,443.6	917,430.6	8,186,013.0
Department of the Army	12,222,064.2	552,996.5	1,489,792.3	10,179,275.4	1,895,199.2	8,284,076.2
Department of the Navy	18,803,425.0	719,171.6	1,140,642.7	16,943,610.7	965,001.4	15,978,609.3
U.S. Space Force	5,038,943.1	0.0	0.0	5,038,943.1	0.0	5,038,943.1
Other defense agencies	15,477,479.2	364,383.9	554,378.2	14,558,717.1	2,281,878.6	12,276,838.5
Department of Education	379,217.7	42,137.3	219,624.4	117,456.0	na	na
Department of Energy	15,069,975.8	5,477,355.7	5,992,756.4	3,599,863.7	na	na
Advanced Research Projects Agency—Energy	427,000.0	0.0	213,500.0	213,500.0	na	na
Electricity Delivery and Energy Reliability	133,757.0	12,943.0	51,654.0	69,160.0	na	na
Energy Efficiency and Renewable Energy	1,976,564.0	0.0	1,276,114.0	700,450.0	na	na
Environmental Management	29,278.0	0.0	9,659.0	19,619.0	na	na
Fossil Energy	684,993.0	1,701.0	683,292.0	0.0	na	na
National Nuclear Security Administration	5,914,311.1	125,502.7	3,344,271.5	2,444,536.9	na	na
Defense Programs	4,109,867.2	0.0	3,194,671.9	915,195.3	na	na
Naval Nuclear Propulsion Program	1,443,427.0	0.0	0.0	1,443,427.0	na	na
Office of Defense Nuclear Nonproliferation	361,016.9	125,502.7	149,599.6	85,914.6	na	na
Nuclear Energy	517,640.7	0.0	387,473.9	130,166.9	na	na
Office of Cybersecurity, Energy Security, and Emergency Response	51,093.0	1,870.0	26,792.0	22,431.0	na	na
Office of Science	5,335,339.0	5,335,339.0	0.0	0.0	na	na
Department of Health and Human Services	68,834,181.9	21,759,200.3	21,620,702.8	25,454,278.8	na	na
Administration for Children and Families	3,084.9	0.0	3,084.9	0.0	na	na
Administration for Community Living	91,902.5	0.0	72,304.2	19,598.4	na	na

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Agency for Healthcare Research and Quality	308,145.0	0.0	308,145.0	0.0	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	25,378,577.8	0.0	0.0	25,378,577.8	na	na
Centers for Disease Control and Prevention	543,119.2	56,766.4	430,250.2	56,102.6	na	na
Centers for Medicare and Medicaid Services	228,033.2	0.0	228,033.2	0.0	na	na
Food and Drug Administration	495,000.0	0.0	495,000.0	0.0	na	na
Health Resources and Services Administration	33,817.0	2,433.9	31,383.1	0.0	na	na
National Institutes of Health	41,726,000.0	21,700,000.0	20,026,000.0	0.0	na	na
Office of the Secretary of Health and Human Services	16,900.0	0.0	16,900.0	0.0	na	na
Office of the Assistant Secretary for Planning and Evaluation	16,900.0	0.0	16,900.0	0.0	na	na
Department of Homeland Security	541,027.6	53,393.8	187,035.4	300,598.4	na	na
Countering Weapons of Mass Destruction Office	35,878.6	8,393.8	16,647.4	10,837.4	na	na
Cybersecurity and Infrastructure Security Agency	9,431.0	0.0	8,305.2	1,125.8	na	na
Science and Technology Directorate	444,000.0	45,000.0	159,000.0	240,000.0	na	na
Transportation Security Administration	29,500.0	0.0	0.0	29,500.0	na	na
U.S. Coast Guard	10,276.0	0.0	3,082.8	7,193.2	na	na
U.S. Secret Service	11,942.0	0.0	0.0	11,942.0	na	na
Department of the Interior	879,089.2	86,260.8	649,452.2	143,376.2	na	na
Bureau of Indian Affairs	*	0.0	*	0.0	na	na
Bureau of Land Management	15,848.0	0.0	12,247.0	3,601.0	na	na
Bureau of Ocean Energy Management	81,700.6	0.0	65,183.2	16,517.4	na	na
Bureau of Reclamation	26,350.0	0.0	18,000.0	8,350.0	na	na
Bureau of Safety and Environmental Enforcement	18,878.6	1,071.0	14,964.9	2,842.8	na	na
National Park Service	10,231.0	865.9	9,365.1	0.0	na	na
Office of Surface Mining Reclamation and Enforcement	2,161.0	0.0	2,161.0	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	691,270.0	84,324.0	494,881.0	112,065.0	na	na
Department of Justice	99,526.8	783.1	85,871.5	12,872.2	na	na
Bureau of Prisons	8,663.0	0.0	1,928.0	6,735.0	na	na
Federal Bureau of Investigation	948.9	0.0	948.9	0.0	na	na
Office of Justice Programs	89,914.9	783.1	82,994.6	6,137.2	na	na
Department of Labor	4,297.2	0.0	4,297.2	0.0	na	na
Employee Benefits Security Administration	2,256.5	0.0	2,256.5	0.0	na	na
Occupational Safety and Health Administration	2,040.7	0.0	2,040.7	0.0	na	na
Department of State	43,000.0	0.0	30,000.0	13,000.0	na	na
Department of Transportation	1,151,767.4	0.0	848,503.4	303,264.0	na	na
Federal Aviation Administration	536,439.7	0.0	297,422.6	239,017.1	na	na

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Federal Highway Administration	376,645.4	0.0	355,765.3	20,880.1	na	na
Federal Motor Carrier Safety Administration	11,373.6	0.0	11,373.6	0.0	na	na
Federal Railroad Administration	47,391.2	0.0	35,543.4	11,847.8	na	na
Federal Transit Administration	54,000.0	0.0	54,000.0	0.0	na	na
National Highway Traffic Safety Administration	65,982.6	0.0	65,982.6	0.0	na	na
Office of the Secretary of Transportation	40,956.0	0.0	22,800.0	18,156.0	na	na
Pipeline and Hazardous Materials Safety Administration	18,979.0	0.0	5,616.0	13,363.0	na	na
Department of the Treasury	63,432.6	0.0	52,466.5	10,966.1	na	na
Bureau of Engraving and Printing	63,339.4	0.0	52,373.3	10,966.1	na	na
U.S. Mint	93.2	0.0	93.2	0.0	na	na
Department of Veterans Affairs	1,689,396.7	669,822.6	987,767.4	31,806.7	na	na
Other agencies						
Administrative Office of the U.S. Courts	6,404.3	0.0	6,404.3	0.0	na	na
Agency for International Development	194,332.7	100.0	134,794.6	59,438.1	na	na
Appalachian Regional Commission	2.5	0.0	2.5	0.0	na	na
Consumer Product Safety Commission	390.6	0.0	390.6	0.0	na	na
Environmental Protection Agency	521,778.0	0.0	404,397.7	117,380.3	na	na
Federal Communications Commission	2,625.0	0.0	2,625.0	0.0	na	na
Federal Trade Commission	7,496.6	0.0	7,496.6	0.0	na	na
Library of Congress	2,685.8	0.0	1,216.3	1,469.5	na	na
National Aeronautics and Space Administration	8,799,396.0	3,241,916.9	2,055,632.6	3,501,846.6	na	na
National Science Foundation	6,405,641.9	5,505,381.4	900,260.5	0.0	na	na
Nuclear Regulatory Commission	76,346.0	2,550.1	71,396.0	2,399.9	na	na
Patient-Centered Outcomes Research Trust Fund	390,870.7	0.0	390,870.7	0.0	na	na
RESTORE Act Centers of Excellence Research Grants Program	5,000.0	0.0	5,000.0	0.0	na	na
Smithsonian Institution	213,560.0	213,560.0	0.0	0.0	na	na
Social Security Administration	129,366.1	0.0	129,366.1	0.0	na	na
Tennessee Valley Authority	11,062.2	0.0	8,474.9	2,587.3	na	na
U.S. Agency for Global Media	4,777.7	0.0	4,777.7	0.0	na	na
U.S. Postal Service	19,006.0	0.0	19,006.0	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 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.