

TABLE 39

Federal obligations for applied research, by agency and performer: FY 2019

(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	41,100,526.5	11,057,883.9	7,102,283.8	3,110,922.2	13,754,525.4	462,695.6	4,166,897.2	792,779.4	414,375.0	238,164.1
Departments										
Department of Agriculture	1,350,427.2	736,540.7	29,441.9	0.0	558,674.3	0.0	19,655.4	0.0	4,822.0	1,292.9
Agricultural Marketing Service	3,855.3	3,855.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	516,949.7	458,967.2	0.0	0.0	50,927.4	0.0	5,722.4	0.0	139.4	1,193.4
Economic Research Service	85,626.4	73,922.6	5,724.1	0.0	3,680.9	0.0	2,236.5	0.0	8.8	53.5
Forest Service	170,325.6	147,919.5	416.3	0.0	15,163.2	0.0	2,266.2	0.0	4,514.4	46.0
National Agricultural Statistics Service	5,263.0	4,775.7	0.0	0.0	253.4	0.0	233.9	0.0	0.0	0.0
National Institute of Food and Agriculture	564,494.8	47,100.5	23,301.5	0.0	487,536.9	0.0	6,396.5	0.0	159.5	0.0
Rural Business-Cooperative Service	3,912.5	0.0	0.0	0.0	1,112.5	0.0	2,800.0	0.0	0.0	0.0
Department of Commerce	1,028,763.0	703,005.7	32,427.6	0.0	246,922.4	2,495.2	22,188.1	18,680.9	1,955.9	1,087.2
National Institute of Standards and Technology	449,790.2	361,935.1	28,994.8	0.0	37,378.3	0.0	1,609.9	18,680.9	108.0	1,083.2
National Oceanic and Atmospheric Administration	541,827.6	303,925.4	3,432.8	0.0	209,544.1	2,495.2	20,578.3	0.0	1,847.9	4.0
National Telecommunications and Information Administration	7,900.0	7,900.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	29,245.2	29,245.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	5,758,234.9	2,032,353.9	2,477,065.4	47,672.9	788,048.4	79,785.5	251,557.4	49,983.5	1,115.0	30,653.0
Defense Advanced Research Projects Agency	1,264,987.0	66,316.8	742,346.4	16,653.4	315,029.0	20,632.2	73,125.0	12,558.7	650.0	17,675.6
Department of the Air Force	1,547,457.8	811,187.5	587,689.5	2,074.8	109,588.0	2,004.0	29,829.0	4,620.1	465.0	0.0
Department of the Army	1,461,518.3	548,516.1	718,770.5	601.9	115,522.7	2,581.5	69,509.1	3,671.5	0.0	2,344.9
Department of the Navy	935,022.4	354,736.0	280,243.3	6,208.7	213,029.1	1,388.0	60,725.1	8,750.7	0.0	9,941.5
Other defense agencies	549,249.3	251,597.4	148,015.7	22,134.0	34,879.6	53,179.8	18,369.2	20,382.5	0.0	691.0
Department of Education	131,380.1	5,563.9	3,807.6	0.0	84,357.9	0.0	36,471.3	0.0	1,179.5	0.0
Department of Energy	6,295,185.2	705,892.2	1,513,376.3	2,801,571.0	428,308.8	185,140.0	58,000.6	591,592.5	10,885.7	418.3

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Advanced Research Projects Agency—Energy	202,477.3	0.0	85,594.9	10,582.8	81,578.5	5,374.4	6,974.3	12,372.3	0.0	0.0
Electricity Delivery and Energy Reliability	72,345.0	1,653.9	4,767.5	16,869.7	8,580.1	7,246.1	5,056.9	27,947.4	223.4	0.0
Energy Efficiency and Renewable Energy	1,270,334.0	0.0	296,261.5	95,576.8	307,763.4	134,636.1	0.0	425,483.8	10,612.4	0.0
Environmental Management	8,622.8	0.0	2,178.2	1,725.9	4,644.5	74.2	0.0	0.0	0.0	0.0
Fossil Energy	626,000.0	601,000.0	0.0	13,000.0	0.0	10,000.0	0.0	2,000.0	0.0	0.0
National Nuclear Security Administration	3,568,301.2	98,430.8	902,370.8	2,478,166.3	975.0	7,284.5	45,969.3	35,054.6	50.0	0.0
Defense Programs	3,434,107.1	98,430.8	889,424.3	2,394,696.0	975.0	950.0	45,969.3	3,661.7	0.0	0.0
Office of Defense Nuclear Nonproliferation	134,194.1	0.0	12,946.5	83,470.3	0.0	6,334.5	0.0	31,392.8	50.0	0.0
Nuclear Energy	378,272.7	1,158.8	78,666.7	174,361.7	21,267.3	20,524.6	0.0	81,875.3	0.0	418.3
Office of Cybersecurity, Energy Security, and Emergency Response	39,033.2	29.1	17,357.2	11,287.7	3,500.0	0.0	0.0	6,859.2	0.0	0.0
Office of Science	129,799.0	3,619.6	126,179.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Health and Human Services	19,254,566.8	3,992,910.8	1,086,451.5	240,424.2	10,589,653.7	9,967.4	2,969,048.2	15,470.1	208,675.7	141,965.2
Administration for Children and Families	2,254.8	205.0	0.0	0.0	0.0	0.0	2,049.8	0.0	0.0	0.0
Administration for Community Living	65,922.4	0.0	200.0	0.0	53,478.7	0.0	11,935.6	0.0	308.1	0.0
Agency for Healthcare Research and Quality	308,145.0	46,928.1	130,303.0	0.0	100,708.7	0.0	30,110.2	0.0	95.0	0.0
Agency for Toxic Substances and Disease Registry	7,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7,000.0	0.0
Centers for Disease Control and Prevention	288,660.1	105,841.7	23,841.0	0.0	90,717.2	0.0	25,790.1	0.0	22,466.7	20,003.4
Centers for Medicare and Medicaid Services	133,488.6	0.0	0.0	0.0	11,554.7	0.0	0.0	*	121,933.9	0.0
Food and Drug Administration	493,052.5	360,481.0	11,457.7	0.0	72,300.0	0.0	39,658.4	0.0	2,103.5	7,052.0

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Health Resources and Services Administration	29,998.0	1,596.3	0.0	0.0	24,027.6	0.0	4,374.1	0.0	0.0	0.0
National Institutes of Health	17,909,000.0	3,475,106.5	915,104.2	240,424.2	10,234,721.2	9,967.4	2,848,528.2	15,470.1	54,768.4	114,909.8
Office of the Secretary of Health and Human Services	17,045.5	2,752.2	5,545.7	0.0	2,145.7	0.0	6,601.9	0.0	0.0	0.0
Office of the Assistant Secretary for Planning and Evaluation	17,045.5	2,752.2	5,545.7	0.0	2,145.7	0.0	6,601.9	0.0	0.0	0.0
Department of Homeland Security	233,243.0	83,899.2	115,766.2	6,053.7	2,355.7	4,381.6	2,182.7	16,072.1	0.0	2,531.9
Countering Weapons of Mass Destruction Office	25,817.5	1,776.8	11,717.6	3,404.1	226.0	4,048.2	0.0	4,345.8	0.0	299.0
Cybersecurity and Infrastructure Security Agency	13,126.0	1,683.6	1,857.8	2,649.6	1,173.8	333.3	880.0	4,548.0	0.0	0.0
Science and Technology Directorate	188,444.5	76,863.2	100,484.6	0.0	852.8	0.0	1,302.7	6,708.3	0.0	2,232.9
U.S. Coast Guard	5,855.0	3,575.5	1,706.3	0.0	103.2	0.0	0.0	470.0	0.0	0.0
Department of Housing and Urban Development	21,918.6	16,170.3	3,515.4	0.0	619.0	0.0	1,613.9	0.0	0.0	0.0
Department of the Interior	608,302.9	510,765.6	16,815.8	0.0	46,199.8	320.0	1,489.4	200.0	29,721.5	2,790.8
Bureau of Indian Affairs	5,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	0.0
Bureau of Land Management	12,857.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12,857.0	0.0
Bureau of Ocean Energy Management	65,080.0	43,853.5	11,330.7	0.0	6,824.4	0.0	234.9	0.0	111.8	2,724.8
Bureau of Reclamation	16,514.0	13,710.0	1,500.0	0.0	784.0	320.0	0.0	200.0	0.0	0.0
Bureau of Safety and Environmental Enforcement	7,365.0	2,052.3	3,722.5	0.0	747.4	0.0	168.0	0.0	608.7	66.0
National Park Service	9,272.4	0.0	26.9	0.0	9,148.5	0.0	96.9	0.0	0.0	0.0
Office of Surface Mining Reclamation and Enforcement	327.5	327.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Fish and Wildlife Service	32,650.0	32,650.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Geological Survey	459,237.0	418,172.3	235.7	0.0	28,695.5	0.0	989.6	0.0	11,143.9	0.0

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Department of Justice	84,168.4	4,151.3	17,642.8	0.0	37,538.3	0.0	23,912.0	0.0	923.9	0.0
Bureau of Prisons	1,249.0	957.0	0.0	0.0	0.0	0.0	0.0	0.0	292.0	0.0
Federal Bureau of Investigation	998.4	0.0	998.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Justice Programs	81,920.9	3,194.3	16,644.3	0.0	37,538.3	0.0	23,912.0	0.0	631.9	0.0
Department of Labor	4,366.1	3,309.5	1,056.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Employee Benefits Security Administration	2,642.1	1,585.5	1,056.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Occupational Safety and Health Administration	1,724.0	1,724.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of State	62,200.0	62,200.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	745,596.2	146,191.9	249,740.2	0.0	145,378.3	265.0	47,791.6	4,121.9	151,672.6	434.7
Federal Aviation Administration	193,114.6	66,032.6	78,966.2	0.0	27,781.7	0.0	18,474.3	1,859.8	0.0	0.0
Federal Highway Administration	414,879.6	53,095.2	92,951.0	0.0	92,638.1	0.0	24,022.7	500.0	151,672.6	0.0
Federal Motor Carrier Safety Administration	7,766.4	5,600.7	1,271.0	0.0	729.7	0.0	165.0	0.0	0.0	0.0
Federal Railroad Administration	31,936.1	4,094.4	20,556.8	0.0	4,470.6	0.0	2,379.6	0.0	0.0	434.7
Federal Transit Administration	2,750.0	0.0	0.0	0.0	0.0	0.0	2,750.0	0.0	0.0	0.0
National Highway Traffic Safety Administration	76,323.0	9,258.2	51,511.8	0.0	14,238.9	265.0	0.0	1,049.2	0.0	0.0
Office of the Secretary of Transportation	8,210.9	3,210.9	0.0	0.0	5,000.0	0.0	0.0	0.0	0.0	0.0
Pipeline and Hazardous Materials Safety Administration	10,615.6	4,899.8	4,483.5	0.0	519.3	0.0	0.0	713.0	0.0	0.0
Department of the Treasury	35,878.8	163.8	35,715.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Engraving and Printing	35,715.0	0.0	35,715.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Mint	163.8	163.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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Department of Veterans Affairs	848,504.3	777,452.5	0.0	0.0	0.0	0.0	0.0	71,051.9	0.0	0.0
Other agencies										
Administrative Office of the U.S. Courts	6,448.3	0.0	0.0	0.0	0.0	0.0	0.0	6,448.3	0.0	0.0
Agency for International Development	171,713.9	16,127.0	12,564.1	0.0	51,524.7	0.0	44,991.3	0.0	0.0	46,506.8
Appalachian Regional Commission	898.9	0.0	254.7	0.0	500.0	0.0	144.2	0.0	0.0	0.0
Consumer Product Safety Commission	856.3	856.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Environmental Protection Agency	404,784.0	208,000.8	143,585.1	472.3	51,832.0	679.1	0.0	214.7	0.0	0.0
Federal Communications Commission	2,005.3	2,005.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Trade Commission	6,003.2	6,003.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	867.6	867.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	2,422,519.2	920,611.8	1,112,147.4	2,321.9	168,879.3	175,667.5	29,581.4	5,147.1	1,566.4	6,596.4
National Archives and Records Administration	511.0	391.2	0.0	0.0	119.8	0.0	0.0	0.0	0.0	0.0
National Science Foundation	784,050.0	1,273.7	163,108.1	0.0	541,756.1	0.0	75,715.3	0.0	1,833.8	363.0
Nuclear Regulatory Commission	74,076.6	30,267.8	8,819.9	12,406.3	590.0	3,994.3	772.9	13,796.5	0.0	3,429.0
Patient-Centered Outcomes Research Trust Fund	578,430.5	0.0	0.0	0.0	0.0	0.0	578,430.5	0.0	0.0	0.0
Social Security Administration	146,241.0	90,908.0	42,597.0	0.0	9,267.0	0.0	3,351.0	0.0	23.0	95.0
Tennessee Valley Authority	5,614.0	0.0	5,614.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Agency for Global Media	6,107.0	0.0	6,107.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Postal Service	26,664.2	0.0	24,664.2	0.0	2,000.0	0.0	0.0	0.0	0.0	0.0

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

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. 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.