

TABLE 24

**Federal obligations for research in physical sciences, by agency and detailed field: FY 2019**

(Dollars in thousands)

Agency	Total	Astronomy	Chemistry	Physics	Other physical sciences
All agencies	9,816,132.9	1,583,417.8	1,125,457.5	3,445,977.6	3,661,279.9
Departments					
Department of Agriculture	93,955.5	0.0	91,164.0	2,791.5	0.0
Agricultural Research Service	74,673.4	0.0	71,881.9	2,791.5	0.0
Forest Service	5,508.5	0.0	5,508.5	0.0	0.0
National Institute of Food and Agriculture	13,773.6	0.0	13,773.6	0.0	0.0
Department of Commerce	258,817.5	0.0	48,233.0	207,406.8	3,177.6
National Institute of Standards and Technology	238,551.5	0.0	46,674.0	188,699.8	3,177.6
National Oceanic and Atmospheric Administration	20,266.0	0.0	1,559.0	18,707.0	0.0
Department of Defense	813,142.3	5,884.6	225,986.1	426,102.8	155,168.8
Defense Advanced Research Projects Agency	126,586.3	0.0	43,754.8	82,403.1	428.4
Department of the Air Force	329,428.3	319.2	21,674.9	252,655.6	54,778.5
Department of the Army	42,629.9	0.0	16,106.1	23,032.3	3,491.5
Department of the Navy	77,244.2	5,565.4	9,969.0	11,436.2	50,273.6
Other defense agencies	237,253.5	0.0	134,481.2	56,575.5	46,196.8
Department of Energy	3,197,261.8	0.0	404,665.8	2,537,883.5	254,712.4
Advanced Research Projects Agency—Energy	42,117.1	0.0	19,871.3	22,245.8	0.0
Fossil Energy	133,000.0	0.0	133,000.0	0.0	0.0
National Nuclear Security Administration	920,440.5	0.0	16,004.0	649,724.1	254,712.4
Defense Programs	712,545.9	0.0	0.0	582,206.5	130,339.4
Office of Defense Nuclear Nonproliferation	207,894.5	0.0	16,004.0	67,517.6	124,373.0
Office of Science	2,101,704.3	0.0	235,790.6	1,865,913.6	0.0
Department of Health and Human Services	88,537.1	0.0	87,432.1	0.0	1,105.0
National Institutes of Health	88,537.1	0.0	87,432.1	0.0	1,105.0
Department of Homeland Security	35,631.3	0.0	8,161.2	3,619.5	23,850.5
Cybersecurity and Infrastructure Security Agency	798.0	0.0	798.0	0.0	0.0
Science and Technology Directorate	34,833.3	0.0	7,363.2	3,619.5	23,850.5
Department of the Interior	241.7	0.0	0.0	0.0	241.7
National Park Service	241.7	0.0	0.0	0.0	241.7
Department of Justice	9,974.2	0.0	5,176.7	0.0	4,797.6
Office of Justice Programs	9,974.2	0.0	5,176.7	0.0	4,797.6
Department of Transportation	4,440.1	0.0	3,440.1	0.0	1,000.0
Pipeline and Hazardous Materials Safety Administration	4,440.1	0.0	3,440.1	0.0	1,000.0
Department of the Treasury	46,000.0	0.0	0.0	0.0	46,000.0
Bureau of Engraving and Printing	46,000.0	0.0	0.0	0.0	46,000.0
Other agencies					
Consumer Product Safety Commission	39.3	0.0	0.0	0.0	39.3
Environmental Protection Agency	9,665.5	0.0	8,523.1	0.0	1,142.4
Federal Communications Commission	300.0	0.0	0.0	300.0	0.0
Library of Congress	867.6	0.0	867.6	0.0	0.0
National Aeronautics and Space Administration	4,228,233.8	1,270,677.3	0.0	7,022.0	2,950,534.4
National Science Foundation	979,034.2	256,864.8	241,807.9	260,851.3	219,510.2
Smithsonian Institution	49,991.0	49,991.0	0.0	0.0	0.0

**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.