

TABLE 48

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

(Dollars in thousands)

Agency	Total	Astronomy	Chemistry	Physics	Other physical sciences
All agencies	1,909,174.4	6,220.8	434,164.6	875,339.8	593,449.1
Departments					
Department of Agriculture	44,573.4	0.0	43,332.7	1,240.7	0.0
Agricultural Research Service	33,188.2	0.0	31,947.5	1,240.7	0.0
Forest Service	2,434.2	0.0	2,434.2	0.0	0.0
National Institute of Food and Agriculture	8,950.9	0.0	8,950.9	0.0	0.0
Department of Commerce	71,396.0	0.0	25,224.1	43,794.4	2,377.6
National Institute of Standards and Technology	51,130.0	0.0	23,665.1	25,087.4	2,377.6
National Oceanic and Atmospheric Administration	20,266.0	0.0	1,559.0	18,707.0	0.0
Department of Defense	429,632.0	5,736.8	152,521.6	161,091.6	110,281.9
Defense Advanced Research Projects Agency	65,106.1	0.0	28,808.2	35,869.5	428.4
Department of the Air Force	137,723.3	171.4	5,265.9	86,277.3	46,008.6
Department of the Army	4,885.9	0.0	0.0	4,885.9	0.0
Department of the Navy	33,952.3	5,565.4	4,200.1	5,111.0	19,075.8
Other defense agencies	187,964.4	0.0	114,247.4	28,947.9	44,769.1
Department of Energy	993,707.3	0.0	143,769.7	652,833.0	197,104.6
Advanced Research Projects Agency—Energy	42,117.1	0.0	19,871.3	22,245.8	0.0
Fossil Energy	100,000.0	0.0	100,000.0	0.0	0.0
National Nuclear Security Administration	825,743.7	0.0	8,658.7	619,980.5	197,104.6
Defense Programs	712,545.9	0.0	0.0	582,206.5	130,339.4
Office of Defense Nuclear Nonproliferation	113,197.8	0.0	8,658.7	37,774.0	66,765.2
Office of Science	25,846.4	0.0	15,239.8	10,606.7	0.0
Department of Health and Human Services	42,936.7	0.0	42,400.9	0.0	535.9
National Institutes of Health	42,936.7	0.0	42,400.9	0.0	535.9
Department of Homeland Security	34,826.4	0.0	7,461.9	3,619.5	23,745.0
Cybersecurity and Infrastructure Security Agency	798.0	0.0	798.0	0.0	0.0
Science and Technology Directorate	34,028.4	0.0	6,663.9	3,619.5	23,745.0
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	35,715.0	0.0	0.0	0.0	35,715.0
Bureau of Engraving and Printing	35,715.0	0.0	0.0	0.0	35,715.0
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	219,324.5	0.0	0.0	7,022.0	212,302.5
National Science Foundation	11,534.8	484.0	1,446.4	5,438.7	4,165.7

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.