

TABLE 73

**Federal obligations for basic research performed at universities and colleges in physical sciences, by selected agency and detailed field: FY 2019**

(Dollars in thousands)

Agency	Total	Astronomy	Chemistry	Physics	Other physical sciences
All agencies surveyed	2,080,811.6	208,675.7	454,985.6	822,093.8	595,056.5
Departments					
Department of Agriculture	8,165.9	0.0	8,013.2	152.8	0.0
Agricultural Research Service	4,086.9	0.0	3,934.1	152.8	0.0
Forest Service	85.0	0.0	85.0	0.0	0.0
National Institute of Food and Agriculture	3,994.0	0.0	3,994.0	0.0	0.0
Department of Defense	241,236.3	106.2	46,662.4	181,468.9	12,998.9
Defense Advanced Research Projects Agency	45,447.3	0.0	12,853.1	32,594.2	0.0
Department of the Air Force	137,094.8	106.2	11,785.1	119,494.3	5,709.2
Department of the Army	13,913.5	0.0	5,265.4	5,173.4	3,474.7
Department of the Navy	12,184.7	0.0	4,021.1	4,348.6	3,815.0
Other defense agencies	32,596.2	0.0	12,737.8	19,858.4	0.0
Department of Energy	530,532.5	0.0	128,738.5	388,042.7	13,751.4
Fossil Energy	33,000.0	0.0	33,000.0	0.0	0.0
National Nuclear Security Administration	13,751.4	0.0	0.0	0.0	13,751.4
Office of Defense Nuclear Nonproliferation	13,751.4	0.0	0.0	0.0	13,751.4
Office of Science	483,781.1	0.0	95,738.5	388,042.7	0.0
Department of Health and Human Services	34,440.9	0.0	33,918.1	0.0	522.8
National Institutes of Health	34,440.9	0.0	33,918.1	0.0	522.8
Department of Homeland Security	804.9	0.0	699.4	0.0	105.5
Science and Technology Directorate	804.9	0.0	699.4	0.0	105.5
Other agencies					
National Aeronautics and Space Administration	495,510.4	118,991.2	0.0	0.0	376,519.2
National Science Foundation	770,120.6	89,578.4	236,954.1	252,429.5	191,158.7

**Note(s):**

Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Basic research obligations of these seven agencies represented more than 99% of total federal basic research obligations to universities and colleges in FY 2019. 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.