

TABLE 83

**Federal obligations for applied 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	118,031.4	1,063.1	66,439.3	30,645.8	19,883.3
Departments					
Department of Agriculture	10,793.0	0.0	10,670.8	122.2	0.0
Agricultural Research Service	3,269.5	0.0	3,147.3	122.2	0.0
Forest Service	106.0	0.0	106.0	0.0	0.0
National Institute of Food and Agriculture	7,417.5	0.0	7,417.5	0.0	0.0
Department of Defense	30,742.2	579.1	11,651.2	12,825.2	5,686.7
Defense Advanced Research Projects Agency	4,134.6	0.0	2,009.9	2,124.7	0.0
Department of the Air Force	11,364.3	14.1	431.9	7,077.1	3,841.2
Department of the Navy	3,234.4	565.0	0.0	824.0	1,845.5
Other defense agencies	12,008.8	0.0	9,209.4	2,799.4	0.0
Department of Energy	21,335.8	0.0	10,728.5	10,607.2	0.0
Advanced Research Projects Agency—Energy	20,635.8	0.0	10,728.5	9,907.2	0.0
National Nuclear Security Administration	700.0	0.0	0.0	700.0	0.0
Defense Programs	700.0	0.0	0.0	700.0	0.0
Department of Health and Human Services	32,434.7	0.0	31,942.3	0.0	492.4
National Institutes of Health	32,434.7	0.0	31,942.3	0.0	492.4
Other agencies					
National Aeronautics and Space Administration	11,252.9	0.0	0.0	1,714.4	9,538.6
National Science Foundation	11,472.8	484.0	1,446.4	5,376.7	4,165.7

**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. Applied research obligations of these seven agencies represented more than 95% of total federal applied 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.