

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.