

TABLE 8

Federal obligations for science and engineering to universities and colleges, by agency and type of activity: FY 2019

(Dollars in thousands)

| Agency | All federal obligations | R&D ^a | | | | R&D plant | Facilities for instruction in S&E | Fellowships, traineeships, and training grants | General support for S&E | Other S&E activities |
|--|-------------------------|------------------|-------------|---------------------------------|---------------------------|-----------|-----------------------------------|--|-------------------------|----------------------|
| | | Total | Research | Advanced technology development | Major systems development | | | | | |
| All agencies | 38,084,768.1 | 35,125,460.1 | na | na | na | 593,658.8 | 6,103.3 | 1,802,625.2 | 96,092.7 | 460,827.9 |
| Department of Agriculture | 1,243,381.7 | 915,630.8 | na | na | na | 0.0 | 0.0 | 97,518.8 | 7,534.1 | 222,698.0 |
| Department of Commerce | 424,013.6 | 348,756.3 | na | na | na | 0.0 | 0.0 | 16,680.8 | 0.0 | 58,576.5 |
| Department of Defense | 4,679,372.0 | 4,679,372.0 | 2,662,678.2 | 959,543.3 | 1,057,150.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Department of the Air Force | 924,050.1 | 924,050.1 | 803,847.0 | 81,790.0 | 38,413.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Department of the Army | 1,426,622.0 | 1,426,622.0 | 781,680.5 | 586,816.1 | 58,125.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Department of the Navy | 1,714,585.1 | 1,714,585.1 | 735,712.9 | 27,778.5 | 951,093.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Other Department of Defense | 614,114.8 | 614,114.8 | 341,437.9 | 263,158.7 | 9,518.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Department of Education | 176,914.7 | 157,751.8 | na | na | na | 0.0 | 0.0 | 8,022.6 | 0.0 | 11,140.3 |
| Department of Energy | 1,369,567.0 | 1,262,777.4 | na | na | na | 75,000.0 | 0.0 | 31,789.6 | 0.0 | 0.0 |
| Department of Health and Human Services | 22,637,592.7 | 21,387,307.5 | na | na | na | 70,486.2 | 103.3 | 1,083,152.7 | 88,558.6 | 7,984.5 |
| Administration for Community Living | 60,517.8 | 51,117.1 | na | na | na | 1,018.5 | 0.0 | 7,831.2 | 551.0 | 0.0 |
| Agency for Healthcare Research and Quality | 97,777.9 | 97,777.9 | na | na | na | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Biomedical Advanced Research and Development Authority | 58,012.8 | 58,012.8 | na | na | na | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Centers for Disease Control and Prevention | 131,528.6 | 129,138.2 | na | na | na | 0.0 | 0.0 | 2,390.4 | 0.0 | 0.0 |
| Centers for Medicare and Medicaid Services | 12,080.5 | 12,080.5 | na | na | na | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Food and Drug Administration | 72,945.1 | 72,945.1 | na | na | na | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Health Resources and Services Administration | 480,136.1 | 23,338.3 | na | na | na | 0.0 | 103.3 | 448,998.9 | 1,400.0 | 6,295.6 |
| National Institutes of Health | 21,722,705.3 | 20,942,609.0 | na | na | na | 69,467.7 | 0.0 | 622,332.2 | 86,607.5 | 1,688.9 |

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|---|-------------------------|------------------|----------|---------------------------------|---------------------------|-----------|-----------------------------------|--|-------------------------|----------------------|
| | | Total | Research | Advanced technology development | Major systems development | | | | | |
| Office of the Assistant Secretary for Planning and Evaluation | 1,888.6 | 288.6 | na | na | na | 0.0 | 0.0 | 1,600.0 | 0.0 | 0.0 |
| Department of Homeland Security | 20,385.5 | 20,385.5 | na | na | na | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Countering Weapons of Mass Destruction Office | 5,266.7 | 5,266.7 | na | na | na | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Science and Technology Directorate | 15,118.8 | 15,118.8 | na | na | na | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Department of Housing and Urban Development | 1,625.0 | 1,625.0 | na | na | na | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Department of the Interior | 63,631.0 | 63,631.0 | na | na | na | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Department of Justice | 7,700.0 | 0.0 | na | na | na | 0.0 | 0.0 | 7,700.0 | 0.0 | 0.0 |
| Department of Transportation | 248,517.0 | 160,931.9 | na | na | na | 293.9 | 6,000.0 | 8,006.0 | 0.0 | 73,285.2 |
| Other agencies | | | | | | | | | | |
| Agency for International Development | 57,182.1 | 57,182.1 | na | na | na | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Appalachian Regional Commission | 593.6 | 593.6 | na | na | na | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Environmental Protection Agency | 9,416.9 | 7,816.9 | na | na | na | 0.0 | 0.0 | 1,600.0 | 0.0 | 0.0 |
| National Aeronautics and Space Administration | 1,077,685.0 | 1,077,685.0 | na | na | na | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| National Science Foundation | 6,057,633.1 | 4,975,120.0 | na | na | na | 447,878.7 | 0.0 | 547,490.9 | 0.0 | 87,143.5 |
| Nuclear Regulatory Commission | 590.0 | 590.0 | na | na | na | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Social Security Administration | 8,967.0 | 8,303.2 | na | na | na | 0.0 | 0.0 | 663.8 | 0.0 | 0.0 |

na = not applicable; data were not collected at this level of detail.

S&E = science and engineering.

^a The Department of Defense (DOD) states that more than 90% of its development obligations reported for universities and colleges are performed at university-administered laboratories that are separate from academic departments. Furthermore, DOD states that much of its development obligations are for major systems development, that such obligations differ from its obligations for advanced technology development, and that DOD total development obligations are therefore not comparable with development obligations at other federal agencies. Refer to table 14 for DOD obligations to individual institutions, by R&D breakdown.

Note(s):

Detail may not add to total because of rounding.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Science and Engineering Support to Universities, Colleges, and Nonprofit Institutions, FY 2019.