

TABLE 9

Federal obligations for science and engineering to universities and colleges and number of recipient institutions, by state, outlying area, and type of activity: FY 2019

(Dollars in thousands and number)

| State and outlying area | All federal obligations | R&D | R&D plant | Facilities for instruction in S&E | Fellowships, traineeships, and training grants | General support for S&E | Other S&E activities |
|-------------------------------|-------------------------|--------------|-----------|-----------------------------------|--|-------------------------|----------------------|
| All states and outlying areas | | | | | | | |
| Obligations (\$thousands) | 38,084,768.1 | 35,125,460.1 | 593,658.8 | 6,103.3 | 1,802,625.2 | 96,092.7 | 460,827.9 |
| Institutions (number) | 1,034 | 917 | 196 | 7 | 703 | 107 | 323 |
| Alabama | | | | | | | |
| Obligations (\$thousands) | 540,544.4 | 491,035.2 | 2,089.0 | 0.0 | 39,735.3 | 722.4 | 6,962.5 |
| Institutions (number) | 16 | 16 | 4 | 0 | 13 | 3 | 5 |
| Alaska | | | | | | | |
| Obligations (\$thousands) | 115,684.0 | 103,531.5 | 306.4 | 0.0 | 5,400.5 | 55.0 | 6,390.5 |
| Institutions (number) | 6 | 5 | 1 | 0 | 4 | 1 | 3 |
| Arizona | | | | | | | |
| Obligations (\$thousands) | 482,710.9 | 441,188.2 | 11,490.7 | 0.0 | 23,676.1 | 1,209.0 | 5,147.0 |
| Institutions (number) | 9 | 8 | 3 | 0 | 6 | 2 | 4 |
| Arkansas | | | | | | | |
| Obligations (\$thousands) | 112,667.8 | 93,614.8 | 0.0 | 0.0 | 10,579.4 | 764.0 | 7,709.6 |
| Institutions (number) | 10 | 10 | 0 | 0 | 7 | 1 | 3 |
| California | | | | | | | |
| Obligations (\$thousands) | 4,906,328.5 | 4,630,852.1 | 38,222.1 | 1,000.0 | 198,034.9 | 13,112.1 | 25,107.2 |
| Institutions (number) | 80 | 72 | 19 | 1 | 60 | 10 | 18 |
| Colorado | | | | | | | |
| Obligations (\$thousands) | 811,513.0 | 748,312.4 | 4,115.1 | 0.0 | 49,004.9 | 299.3 | 9,781.3 |
| Institutions (number) | 19 | 19 | 2 | 0 | 14 | 1 | 3 |
| Connecticut | | | | | | | |
| Obligations (\$thousands) | 688,353.2 | 661,563.6 | 175.4 | 0.0 | 24,911.1 | 742.9 | 960.1 |
| Institutions (number) | 15 | 15 | 1 | 0 | 5 | 2 | 5 |
| Delaware | | | | | | | |
| Obligations (\$thousands) | 138,647.1 | 121,590.0 | 9,559.9 | 0.0 | 2,447.7 | 1,121.2 | 3,928.4 |
| Institutions (number) | 3 | 2 | 1 | 0 | 2 | 1 | 3 |
| District of Columbia | | | | | | | |
| Obligations (\$thousands) | 498,905.8 | 399,414.7 | 82,358.0 | 0.0 | 11,607.5 | 1,887.5 | 3,638.0 |
| Institutions (number) | 13 | 13 | 2 | 0 | 9 | 1 | 6 |
| Florida | | | | | | | |

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|---------------------------|-------------------------|-------------|-----------|-----------------------------------|--|-------------------------|----------------------|
| Obligations (\$thousands) | 1,005,064.8 | 934,427.7 | 5,254.8 | 0.0 | 41,290.1 | 1,900.0 | 22,192.1 |
| Institutions (number) | 31 | 26 | 9 | 0 | 23 | 1 | 10 |
| Georgia | | | | | | | |
| Obligations (\$thousands) | 1,377,691.0 | 1,313,038.2 | 2,681.6 | 0.0 | 50,011.1 | 2,185.0 | 9,775.0 |
| Institutions (number) | 23 | 21 | 4 | 0 | 17 | 3 | 13 |
| Hawaii | | | | | | | |
| Obligations (\$thousands) | 172,601.3 | 149,419.2 | 9,438.2 | 0.0 | 12,409.4 | 75.0 | 1,259.4 |
| Institutions (number) | 6 | 6 | 2 | 0 | 4 | 1 | 2 |
| Idaho | | | | | | | |
| Obligations (\$thousands) | 71,398.1 | 60,218.9 | 405.0 | 0.0 | 6,995.6 | 0.0 | 3,778.6 |
| Institutions (number) | 4 | 4 | 1 | 0 | 3 | 0 | 2 |
| Illinois | | | | | | | |
| Obligations (\$thousands) | 1,419,237.7 | 1,317,966.0 | 10,218.5 | 0.0 | 76,991.2 | 3,322.8 | 10,739.2 |
| Institutions (number) | 37 | 26 | 5 | 0 | 26 | 3 | 12 |
| Indiana | | | | | | | |
| Obligations (\$thousands) | 611,975.1 | 572,186.3 | 6,302.3 | 0.0 | 21,700.5 | 1,790.0 | 9,996.0 |
| Institutions (number) | 16 | 15 | 3 | 0 | 10 | 2 | 5 |
| Iowa | | | | | | | |
| Obligations (\$thousands) | 312,625.5 | 279,598.0 | 702.1 | 0.0 | 18,353.2 | 856.4 | 13,115.9 |
| Institutions (number) | 13 | 13 | 3 | 0 | 7 | 1 | 2 |
| Kansas | | | | | | | |
| Obligations (\$thousands) | 254,812.7 | 233,121.8 | 1,000.6 | 0.0 | 9,740.9 | 3,205.4 | 7,743.8 |
| Institutions (number) | 9 | 7 | 2 | 0 | 6 | 2 | 4 |
| Kentucky | | | | | | | |
| Obligations (\$thousands) | 296,526.1 | 266,501.9 | 6,702.5 | 0.0 | 17,909.7 | 588.1 | 4,823.9 |
| Institutions (number) | 12 | 10 | 3 | 0 | 10 | 2 | 5 |
| Louisiana | | | | | | | |
| Obligations (\$thousands) | 253,580.2 | 228,775.3 | 3,535.7 | 0.0 | 13,305.9 | 893.3 | 7,070.0 |
| Institutions (number) | 15 | 13 | 2 | 0 | 9 | 2 | 6 |
| Maine | | | | | | | |
| Obligations (\$thousands) | 68,889.3 | 58,335.1 | 350.0 | 1,000.0 | 3,663.0 | 0.0 | 5,541.2 |

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|---------------------------|-------------------------|-------------|-----------|-----------------------------------|--|-------------------------|----------------------|
| Institutions (number) | 9 | 8 | 1 | 1 | 3 | 0 | 2 |
| Maryland | | | | | | | |
| Obligations (\$thousands) | 2,415,778.0 | 2,340,951.9 | 3,559.3 | 0.0 | 54,110.1 | 3,883.1 | 13,273.5 |
| Institutions (number) | 22 | 19 | 4 | 0 | 15 | 3 | 7 |
| Massachusetts | | | | | | | |
| Obligations (\$thousands) | 1,917,570.9 | 1,828,291.8 | 9,485.9 | 1,000.0 | 57,650.0 | 3,002.5 | 18,140.7 |
| Institutions (number) | 50 | 41 | 10 | 1 | 34 | 5 | 11 |
| Michigan | | | | | | | |
| Obligations (\$thousands) | 1,231,391.0 | 1,089,036.7 | 84,121.3 | 1,000.0 | 43,945.0 | 2,925.3 | 10,362.6 |
| Institutions (number) | 24 | 20 | 6 | 1 | 14 | 1 | 8 |
| Minnesota | | | | | | | |
| Obligations (\$thousands) | 483,036.7 | 432,917.7 | 2,764.0 | 0.0 | 34,160.6 | 0.0 | 13,194.4 |
| Institutions (number) | 21 | 19 | 1 | 0 | 15 | 0 | 6 |
| Mississippi | | | | | | | |
| Obligations (\$thousands) | 216,017.8 | 203,370.0 | 132.9 | 0.0 | 6,975.8 | 312.6 | 5,226.5 |
| Institutions (number) | 8 | 8 | 1 | 0 | 8 | 2 | 5 |
| Missouri | | | | | | | |
| Obligations (\$thousands) | 761,665.0 | 707,863.9 | 11,129.3 | 0.0 | 32,824.0 | 4,674.0 | 5,173.8 |
| Institutions (number) | 18 | 15 | 5 | 0 | 14 | 3 | 8 |
| Montana | | | | | | | |
| Obligations (\$thousands) | 102,503.4 | 89,930.7 | 0.0 | 0.0 | 4,852.3 | 151.1 | 7,569.2 |
| Institutions (number) | 12 | 11 | 0 | 0 | 10 | 1 | 9 |
| Nebraska | | | | | | | |
| Obligations (\$thousands) | 215,852.4 | 190,495.3 | 841.6 | 0.0 | 16,695.4 | 718.6 | 7,101.5 |
| Institutions (number) | 9 | 7 | 2 | 0 | 7 | 2 | 3 |
| Nevada | | | | | | | |
| Obligations (\$thousands) | 91,097.7 | 81,351.4 | 977.4 | 0.0 | 5,354.8 | 0.0 | 3,414.1 |
| Institutions (number) | 5 | 5 | 2 | 0 | 3 | 0 | 2 |
| New Hampshire | | | | | | | |
| Obligations (\$thousands) | 168,813.3 | 161,112.3 | 1,002.9 | 0.0 | 6,084.6 | 75.0 | 538.4 |
| Institutions (number) | 7 | 6 | 2 | 0 | 5 | 1 | 3 |

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|---------------------------|-------------------------|-------------|-----------|-----------------------------------|--|-------------------------|----------------------|
| New Jersey | | | | | | | |
| Obligations (\$thousands) | 504,752.6 | 479,649.1 | 3,663.2 | 0.0 | 12,790.1 | 1,810.0 | 6,840.2 |
| Institutions (number) | 15 | 13 | 3 | 0 | 10 | 1 | 3 |
| New Mexico | | | | | | | |
| Obligations (\$thousands) | 176,029.4 | 148,433.2 | 4,385.9 | 0.0 | 18,481.7 | 69.0 | 4,659.6 |
| Institutions (number) | 10 | 8 | 2 | 0 | 8 | 1 | 5 |
| New York | | | | | | | |
| Obligations (\$thousands) | 3,160,971.0 | 2,978,234.1 | 10,104.3 | 1,000.0 | 135,860.3 | 11,922.2 | 23,850.2 |
| Institutions (number) | 92 | 81 | 21 | 1 | 60 | 10 | 14 |
| North Carolina | | | | | | | |
| Obligations (\$thousands) | 1,662,046.6 | 1,533,633.6 | 18,341.6 | 0.0 | 84,239.1 | 990.2 | 24,842.1 |
| Institutions (number) | 28 | 25 | 6 | 0 | 24 | 4 | 13 |
| North Dakota | | | | | | | |
| Obligations (\$thousands) | 49,688.3 | 38,722.4 | 229.4 | 0.0 | 6,535.9 | 137.0 | 4,063.6 |
| Institutions (number) | 7 | 6 | 1 | 0 | 7 | 1 | 6 |
| Ohio | | | | | | | |
| Obligations (\$thousands) | 978,559.4 | 908,860.4 | 18,721.0 | 0.0 | 40,443.6 | 4,540.0 | 5,994.3 |
| Institutions (number) | 34 | 32 | 5 | 0 | 22 | 3 | 8 |
| Oklahoma | | | | | | | |
| Obligations (\$thousands) | 209,141.6 | 187,807.4 | 8,492.2 | 0.0 | 8,580.1 | 206.9 | 4,055.0 |
| Institutions (number) | 8 | 8 | 2 | 0 | 4 | 2 | 3 |
| Oregon | | | | | | | |
| Obligations (\$thousands) | 615,132.8 | 464,005.7 | 120,716.8 | 0.0 | 21,175.9 | 1,100.1 | 8,134.3 |
| Institutions (number) | 16 | 15 | 5 | 0 | 11 | 2 | 4 |
| Pennsylvania | | | | | | | |
| Obligations (\$thousands) | 2,403,531.7 | 2,282,065.1 | 3,553.4 | 0.0 | 94,024.1 | 5,194.3 | 18,694.9 |
| Institutions (number) | 54 | 48 | 10 | 0 | 29 | 5 | 11 |
| Rhode Island | | | | | | | |
| Obligations (\$thousands) | 216,940.8 | 204,531.1 | 2,612.4 | 0.0 | 6,256.2 | 600.0 | 2,941.1 |
| Institutions (number) | 6 | 4 | 3 | 0 | 2 | 1 | 2 |
| South Carolina | | | | | | | |

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|---------------------------|-------------------------|-------------|-----------|-----------------------------------|--|-------------------------|----------------------|
| Obligations (\$thousands) | 287,364.3 | 254,014.6 | 1,508.0 | 0.0 | 24,278.3 | 0.0 | 7,563.4 |
| Institutions (number) | 17 | 12 | 3 | 0 | 11 | 0 | 5 |
| South Dakota | | | | | | | |
| Obligations (\$thousands) | 45,425.4 | 33,027.0 | 255.0 | 0.0 | 8,087.1 | 746.6 | 3,309.8 |
| Institutions (number) | 10 | 10 | 2 | 0 | 6 | 1 | 6 |
| Tennessee | | | | | | | |
| Obligations (\$thousands) | 662,341.7 | 597,471.9 | 2,324.0 | 0.0 | 49,256.8 | 3,393.7 | 9,895.2 |
| Institutions (number) | 22 | 19 | 4 | 0 | 16 | 4 | 8 |
| Texas | | | | | | | |
| Obligations (\$thousands) | 2,146,144.9 | 1,955,672.7 | 49,661.8 | 1,000.0 | 101,455.5 | 4,217.9 | 34,137.0 |
| Institutions (number) | 62 | 58 | 9 | 1 | 47 | 6 | 20 |
| Utah | | | | | | | |
| Obligations (\$thousands) | 546,005.3 | 524,417.8 | 0.0 | 0.0 | 16,672.5 | 2,000.0 | 2,914.9 |
| Institutions (number) | 7 | 7 | 0 | 0 | 4 | 1 | 3 |
| Vermont | | | | | | | |
| Obligations (\$thousands) | 92,230.1 | 81,051.0 | 847.1 | 0.0 | 4,656.0 | 1,007.0 | 4,669.0 |
| Institutions (number) | 6 | 5 | 2 | 0 | 1 | 1 | 2 |
| Virginia | | | | | | | |
| Obligations (\$thousands) | 641,633.7 | 588,940.2 | 2,834.1 | 0.0 | 35,447.0 | 2,718.7 | 11,693.7 |
| Institutions (number) | 27 | 27 | 4 | 0 | 18 | 2 | 9 |
| Washington | | | | | | | |
| Obligations (\$thousands) | 1,021,099.3 | 827,974.4 | 1,565.4 | 0.0 | 176,420.1 | 195.7 | 14,943.6 |
| Institutions (number) | 27 | 23 | 4 | 0 | 20 | 1 | 4 |
| West Virginia | | | | | | | |
| Obligations (\$thousands) | 68,634.2 | 60,649.8 | 0.0 | 0.0 | 5,881.0 | 0.0 | 2,103.4 |
| Institutions (number) | 9 | 8 | 0 | 0 | 4 | 0 | 2 |
| Wisconsin | | | | | | | |
| Obligations (\$thousands) | 698,206.5 | 631,565.7 | 11,445.9 | 103.3 | 41,305.3 | 4,167.8 | 9,618.6 |
| Institutions (number) | 32 | 28 | 4 | 1 | 21 | 2 | 6 |
| Wyoming | | | | | | | |
| Obligations (\$thousands) | 45,662.6 | 33,467.5 | 10,557.3 | 0.0 | 256.1 | 175.8 | 1,205.9 |

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|--|-------------------------|----------|-----------|-----------------------------------|--|-------------------------|----------------------|
| Institutions (number) | 1 | 1 | 1 | 0 | 1 | 1 | 1 |
| American Samoa | | | | | | | |
| Obligations (\$thousands) | 1,604.9 | 1,134.2 | 0.0 | 0.0 | 0.0 | 0.0 | 470.7 |
| Institutions (number) | 1 | 1 | 0 | 0 | 0 | 0 | 1 |
| Guam | | | | | | | |
| Obligations (\$thousands) | 5,382.6 | 4,043.8 | 0.0 | 0.0 | 1,007.0 | 0.0 | 331.8 |
| Institutions (number) | 1 | 1 | 0 | 0 | 1 | 0 | 1 |
| Puerto Rico | | | | | | | |
| Obligations (\$thousands) | 94,104.1 | 70,978.5 | 12,917.1 | 0.0 | 6,868.1 | 428.4 | 2,911.9 |
| Institutions (number) | 17 | 14 | 4 | 0 | 12 | 1 | 8 |
| Trust Territory of the Pacific Islands | | | | | | | |
| Obligations (\$thousands) | 3,131.2 | 2,345.8 | 0.0 | 0.0 | 0.0 | 0.0 | 785.4 |
| Institutions (number) | 2 | 2 | 0 | 0 | 0 | 0 | 2 |
| Virgin Islands | | | | | | | |
| Obligations (\$thousands) | 5,520.5 | 2,750.2 | 0.0 | 0.0 | 2,226.5 | 0.0 | 543.8 |
| Institutions (number) | 1 | 1 | 0 | 0 | 1 | 0 | 1 |

S&E = science and engineering.

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.