

TABLE 60

## Federal obligations for research and experimental development, by state or location and agency: FY 2021

(Dollars in thousands)

| State or location    | Total       | DHS     | DOC       | DOD        | DOE        | DOI     | DOT       | EPA     | HHS        | NASA       | NSF       | USDA      | Other <sup>a</sup> |
|----------------------|-------------|---------|-----------|------------|------------|---------|-----------|---------|------------|------------|-----------|-----------|--------------------|
| All locations        | 189,398,467 | 521,898 | 1,811,833 | 70,410,576 | 13,451,142 | 901,226 | 1,105,375 | 520,328 | 76,340,417 | 11,690,738 | 6,685,539 | 2,890,898 | 3,068,498          |
| Alabama              | 3,966,904   | 3,552   | 4,856     | 3,176,525  | 19,572     | 3,404   | 8,617     | 1,485   | 394,510    | 248,161    | 46,386    | 43,274    | 16,562             |
| Alaska               | 322,626     | 4,301   | 3,917     | 120,996    | 12,431     | 59,818  | 4,208     | 0       | 26,400     | 21,555     | 51,393    | 13,789    | 3,819              |
| Arizona              | 1,663,321   | 1,591   | 3,256     | 907,603    | 31,859     | 32,107  | 12,726    | 50      | 334,410    | 165,309    | 131,162   | 30,869    | 12,379             |
| Arkansas             | 300,252     | 2,877   | 0         | 102,354    | 1,649      | 7,394   | 3,183     | 0       | 96,223     | 2,256      | 25,627    | 43,053    | 15,634             |
| California           | 22,618,185  | 35,280  | 22,060    | 10,160,653 | 2,744,902  | 74,760  | 49,187    | 24,315  | 5,126,819  | 3,030,644  | 842,984   | 161,799   | 344,780            |
| Colorado             | 6,229,985   | 625     | 218,890   | 3,061,893  | 565,157    | 76,726  | 26,776    | 9,072   | 893,045    | 954,149    | 327,793   | 61,132    | 34,728             |
| Connecticut          | 2,597,155   | 6,376   | 11,535    | 1,534,943  | 52,651     | 1,586   | 12,060    | 1,338   | 696,109    | 166,819    | 58,317    | 5,907     | 49,514             |
| Delaware             | 306,913     | 917     | 95,999    | 48,096     | 31,027     | 1,632   | 1,706     | 0       | 69,359     | 7,554      | 40,648    | 7,679     | 2,296              |
| District of Columbia | 39,038,621  | 51,251  | 36,675    | 2,936,657  | 709,514    | 24,984  | 201,127   | 53,096  | 31,685,313 | 1,914,949  | 329,398   | 306,981   | 788,677            |
| Florida              | 4,094,695   | 6,353   | 24,941    | 2,574,591  | 51,406     | 54,947  | 34,982    | 11,611  | 781,919    | 187,967    | 223,761   | 75,532    | 66,683             |
| Georgia              | 1,653,954   | 1,041   | 4,078     | 435,233    | 89,846     | 3,365   | 13,355    | 11,564  | 801,120    | 24,224     | 135,765   | 90,103    | 44,258             |
| Hawaii               | 485,890     | 1,440   | 2,082     | 304,728    | 6,986      | 6,919   | 1,696     | 638     | 58,614     | 27,148     | 46,981    | 26,553    | 2,102              |
| Idaho                | 672,104     | 4,567   | 0         | 52,410     | 508,781    | 10,127  | 950       | 319     | 23,681     | 4,201      | 23,223    | 33,352    | 10,495             |
| Illinois             | 3,532,719   | 60      | 733       | 738,833    | 1,180,994  | 6,996   | 15,026    | 199     | 1,126,582  | 35,848     | 280,273   | 71,489    | 75,688             |
| Indiana              | 1,080,842   | 500     | 5,301     | 394,631    | 46,830     | 8,783   | 6,100     | 1,335   | 360,522    | 25,831     | 164,556   | 33,890    | 32,565             |
| Iowa                 | 686,259     | 424     | 285       | 201,288    | 65,279     | 1,284   | 10,878    | 1,375   | 227,476    | 12,197     | 46,065    | 88,787    | 30,922             |
| Kansas               | 413,888     | 0       | 1,400     | 76,716     | 17,922     | 5,549   | 25,570    | 0       | 111,953    | 7,443      | 34,346    | 125,506   | 7,483              |
| Kentucky             | 542,299     | *       | 0         | 163,425    | 34,654     | 2,222   | 2,829     | 638     | 260,553    | 6,236      | 31,005    | 25,200    | 15,534             |
| Louisiana            | 456,813     | 0       | 2,572     | 89,377     | 12,517     | 20,658  | 6,252     | 7,912   | 212,571    | 2,453      | 47,175    | 45,412    | 9,914              |
| Maine                | 248,866     | 24,942  | 3,039     | 24,985     | 24,797     | 2,493   | 5,027     | 128     | 110,019    | 9,735      | 23,708    | 19,700    | 293                |
| Maryland             | 17,564,594  | 19,383  | 1,163,430 | 5,188,173  | 68,236     | 39,829  | 43,169    | 14,497  | 8,905,780  | 1,474,702  | 339,207   | 204,879   | 103,308            |
| Massachusetts        | 9,496,432   | 4,169   | 12,927    | 4,370,252  | 203,503    | 14,580  | 77,293    | 19,222  | 3,879,002  | 191,403    | 490,701   | 35,674    | 197,706            |
| Michigan             | 2,070,494   | 388     | 4,649     | 731,517    | 141,900    | 10,325  | 16,302    | 5,489   | 860,970    | 35,330     | 187,511   | 23,658    | 52,455             |
| Minnesota            | 1,144,953   | 0       | 1,659     | 226,938    | 35,118     | 9,677   | 10,363    | 9,876   | 684,210    | 11,432     | 70,339    | 52,246    | 33,095             |
| Mississippi          | 454,921     | 1,971   | 13,643    | 126,351    | 6,060      | 4,084   | 6,320     | 0       | 66,984     | 79,345     | 21,452    | 126,617   | 2,095              |
| Missouri             | 2,058,775   | 5,590   | 1,599     | 976,576    | 71,427     | 24,489  | 16,088    | 1,104   | 774,776    | 34,294     | 54,378    | 69,317    | 29,138             |
| Montana              | 287,208     | 2,180   | 200       | 77,430     | 13,961     | 21,084  | 2,957     | *       | 95,072     | 10,813     | 32,305    | 30,990    | 178                |
| Nebraska             | 302,638     | 7,708   | 300       | 42,448     | 7,029      | 1,162   | 5,006     | 0       | 134,263    | 1,081      | 32,660    | 54,401    | 16,580             |
| Nevada               | 551,831     | 222     | 145       | 209,532    | 195,367    | 10,496  | 2,787     | 1,884   | 44,434     | 51,394     | 25,296    | 5,914     | 4,360              |
| New Hampshire        | 522,631     | 319     | 12,694    | 272,965    | 18,027     | 2,379   | 823       | 0       | 112,832    | 65,094     | 25,494    | 10,249    | 1,753              |
| New Jersey           | 3,398,171   | 4,648   | 12,261    | 1,725,542  | 164,780    | 2,973   | 29,355    | 4,245   | 1,209,077  | 41,788     | 161,698   | 12,912    | 28,891             |
| New Mexico           | 3,881,144   | 27,722  | 988       | 1,665,889  | 1,893,207  | 7,030   | 10,525    | 0       | 121,642    | 55,255     | 49,078    | 13,970    | 35,838             |
| New York             | 6,830,934   | 1,273   | 5,846     | 1,169,060  | 1,205,300  | 11,598  | 12,002    | 5,668   | 3,667,592  | 167,974    | 431,943   | 71,981    | 80,697             |
| North Carolina       | 3,620,371   | 12,610  | 18,915    | 345,047    | 60,497     | 11,263  | 14,711    | 143,524 | 2,675,524  | 10,516     | 186,555   | 70,191    | 71,018             |
| North Dakota         | 168,097     | 0       | 0         | 23,933     | 21,132     | 2,781   | 8,021     | 742     | 35,556     | 350        | 21,459    | 54,012    | 111                |

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(Dollars in thousands)

| State or location           | Total     | DHS     | DOC    | DOD       | DOE       | DOI    | DOT     | EPA    | HHS       | NASA      | NSF     | USDA    | Other <sup>a</sup> |
|-----------------------------|-----------|---------|--------|-----------|-----------|--------|---------|--------|-----------|-----------|---------|---------|--------------------|
| Ohio                        | 3,856,489 | 16,506  | 1,977  | 2,333,320 | 112,551   | 9,513  | 34,870  | 80,645 | 970,242   | 89,083    | 119,812 | 40,141  | 47,827             |
| Oklahoma                    | 1,505,105 | 1,239   | 13,823 | 1,153,268 | 23,561    | 57,518 | 12,695  | 9,812  | 131,644   | 18,306    | 35,633  | 38,190  | 9,416              |
| Oregon                      | 1,069,952 | 499     | 6,234  | 287,381   | 37,596    | 19,346 | 10,257  | 11,714 | 430,975   | 11,128    | 103,283 | 85,423  | 66,116             |
| Pennsylvania                | 4,544,785 | 11,475  | 4,881  | 1,295,879 | 483,529   | 10,817 | 29,929  | 7,229  | 2,115,090 | 154,459   | 288,754 | 75,612  | 67,131             |
| Rhode Island                | 866,046   | *       | 20,834 | 479,218   | 7,931     | *      | 1,443   | 9,648  | 257,603   | 6,930     | 55,839  | 4,225   | 22,310             |
| South Carolina              | 1,434,459 | 3,169   | 15,233 | 973,769   | 63,484    | 1,575  | 5,401   | 281    | 240,764   | 3,833     | 44,279  | 33,758  | 48,914             |
| South Dakota                | 132,148   | 1,620   | 0      | 36,027    | 23,598    | 114    | 2,078   | 74     | 29,261    | 12,800    | 12,906  | 12,933  | 736                |
| Tennessee                   | 3,461,773 | 4,691   | 330    | 847,842   | 1,304,514 | 9,256  | 6,556   | 23,133 | 668,456   | 422,009   | 65,731  | 34,754  | 74,501             |
| Texas                       | 6,131,234 | 13,562  | 11,511 | 2,534,815 | 127,314   | 25,587 | 30,545  | 2,886  | 1,728,086 | 1,055,227 | 377,760 | 138,506 | 85,435             |
| Utah                        | 2,439,690 | 0       | 827    | 1,640,157 | 259,865   | 12,347 | 4,044   | *      | 259,133   | 32,983    | 148,282 | 31,998  | 50,017             |
| Vermont                     | 244,489   | 0       | 811    | 34,521    | 21,233    | 2,109  | 1,379   | 721    | 78,242    | 359       | 68,973  | 28,964  | 7,177              |
| Virginia                    | 9,740,743 | 2,415   | 18,836 | 7,734,839 | 84,086    | 99,214 | 247,841 | 35,592 | 555,748   | 725,709   | 9,756   | 26,478  | 200,230            |
| Washington                  | 3,735,831 | 222,280 | 19,713 | 1,166,173 | 453,418   | 21,316 | 12,423  | 5,940  | 1,487,532 | 52,393    | 152,255 | 69,299  | 73,090             |
| West Virginia               | 199,238   | 396     | 0      | 29,565    | 40,607    | 5,543  | 2,088   | *      | 67,786    | 4,444     | 12,880  | 34,213  | 1,678              |
| Wisconsin                   | 989,462   | 9,722   | 1,303  | 140,754   | 78,110    | 14,020 | 3,048   | 1,186  | 560,784   | 14,892    | 101,705 | 63,504  | 434                |
| Wyoming                     | 196,837   | 0       | 428    | 94,807    | 14,884    | 26,644 | 2,805   | 0      | 35,665    | 0         | 17,155  | 4,443   | *                  |
| Outlying areas              | 228,980   | 0       | 3,918  | 82,737    | 545       | 6,651  | 0       | *      | 56,319    | 0         | 29,895  | 20,962  | 27,924             |
| Puerto Rico                 | 120,136   | 0       | 3,918  | 4,768     | 250       | 1,455  | 0       | *      | 51,453    | 0         | 17,301  | 13,038  | 27,923             |
| Other areas <sup>b</sup>    | 108,844   | 0       | 0      | 77,969    | 295       | 5,196  | 0       | 0      | 4,865     | 0         | 12,594  | 7,924   | *                  |
| Offices abroad <sup>c</sup> | 179,044   | 0       | 300    | 111,237   | 0         | 125    | 0       | 0      | 2,173     | 726       | 0       | 477     | 64,004             |
| Undistributed <sup>d</sup>  | 5,176,678 | NA      | NA     | 5,176,678 | NA        | NA     | NA      | NA     | NA        | NA        | NA      | NA      | NA                 |

\* = amount greater than \$0 but less than \$50,000.

DHS = Department of Homeland Security; DOC = Department of Commerce; DOD = Department of Defense; DOE = Department of Energy; DOI = Department of the Interior; DOT = Department of Transportation; EPA = Environmental Protection Agency; HHS = Department of Health and Human Services; NASA = National Aeronautics and Space Administration; NSF = National Science Foundation; USDA = Department of Agriculture.

<sup>a</sup> Includes data for the Departments of Education, Justice, Labor, State, the Treasury, and Veterans Affairs; the Administrative Office of the U.S. Courts; the Agency for Global Media; the Agency for International Development; the Appalachian Regional Commission; the Consumer Product Safety Commission; the Federal Trade Commission; the Library of Congress; the Nuclear Regulatory Commission; the Patient-Centered Outcomes Research Trust Fund; the Postal Service; the Smithsonian Institution; the Social Security Administration; and the Tennessee Valley Authority.<sup>b</sup> Includes American Samoa, Baker Island, Guam, Howland Island, Jarvis Island, Johnston Atoll, Kingman Reef, Midway Islands, Navassa Island, Northern Mariana Islands, Palmyra Atoll, U.S. Virgin Islands, and Wake Island.<sup>c</sup> Includes R&D performed or administered in foreign countries by the U.S. government.<sup>d</sup> DOD obligations for which the location of performance is not reported.**Note(s):**

Because of rounding, detail may not add to total. Geographic distribution of DOD development funding to businesses reflects location of prime contractors and not the numerous subcontractors who perform much of the R&amp;D. FY 2021 obligations include additional funding provided by supplemental COVID-19 pandemic-related appropriations (e.g., Coronavirus Aid, Relief, and Economic Security [CARES] Act). 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 2021–22.