

TABLE 68

## Higher education R&amp;D expenditures, by state and source of funds: FY 2019

(Dollars in thousands)

| State                | All R&D expenditures | Source of funds    |                            |                   |           |                         |                   |
|----------------------|----------------------|--------------------|----------------------------|-------------------|-----------|-------------------------|-------------------|
|                      |                      | Federal government | State and local government | Institution funds | Business  | Nonprofit organizations | All other sources |
| United States        | 83,496,348           | 44,455,265         | 4,495,452                  | 21,109,703        | 5,053,576 | 5,683,937               | 2,698,415         |
| Alabama              | 1,123,491            | 633,801            | 60,902                     | 308,252           | 71,364    | 34,790                  | 14,382            |
| Alaska               | 169,296              | 108,869            | 4,946                      | 43,575            | 5,112     | 2,392                   | 4,402             |
| Arizona              | 1,434,177            | 631,218            | 70,113                     | 467,635           | 40,518    | 96,806                  | 127,887           |
| Arkansas             | 364,781              | 131,698            | 68,779                     | 131,301           | 14,552    | 9,450                   | 9,001             |
| California           | 10,490,076           | 5,339,095          | 428,106                    | 2,253,750         | 704,160   | 1,096,389               | 668,576           |
| Colorado             | 1,622,011            | 1,165,031          | 54,990                     | 163,362           | 86,322    | 93,666                  | 58,640            |
| Connecticut          | 1,387,319            | 748,541            | 16,862                     | 415,568           | 86,945    | 104,752                 | 14,651            |
| Delaware             | 229,287              | 145,199            | 12,877                     | 55,805            | 5,969     | 4,556                   | 4,881             |
| District of Columbia | 664,872              | 326,300            | 5,215                      | 188,038           | 23,370    | 88,244                  | 33,705            |
| Florida              | 2,685,834            | 1,236,623          | 236,711                    | 912,108           | 105,448   | 129,929                 | 65,015            |
| Georgia              | 2,667,874            | 1,491,639          | 167,321                    | 725,561           | 145,235   | 121,978                 | 16,140            |
| Hawaii               | 301,419              | 186,601            | 20,297                     | 77,733            | 1,967     | 13,150                  | 1,671             |
| Idaho                | 167,903              | 83,569             | 40,991                     | 35,397            | 2,894     | 2,021                   | 3,031             |
| Illinois             | 2,709,733            | 1,605,566          | 39,065                     | 696,353           | 179,372   | 151,852                 | 37,525            |
| Indiana              | 1,661,312            | 699,333            | 47,300                     | 635,438           | 100,742   | 123,421                 | 55,078            |
| Iowa                 | 880,424              | 405,544            | 49,963                     | 343,948           | 46,167    | 31,260                  | 3,542             |
| Kansas               | 703,716              | 281,630            | 76,052                     | 198,586           | 112,205   | 32,631                  | 2,612             |
| Kentucky             | 610,983              | 294,795            | 49,921                     | 182,081           | 19,130    | 22,179                  | 42,877            |
| Louisiana            | 778,357              | 302,498            | 98,916                     | 232,925           | 69,914    | 50,200                  | 23,904            |
| Maine                | 151,249              | 63,641             | 23,170                     | 52,320            | 4,383     | 5,191                   | 2,544             |
| Maryland             | 4,629,161            | 3,598,661          | 80,460                     | 555,299           | 139,039   | 246,371                 | 9,331             |
| Massachusetts        | 4,305,676            | 2,384,590          | 41,650                     | 972,123           | 325,565   | 426,532                 | 155,216           |
| Michigan             | 2,891,267            | 1,435,005          | 66,308                     | 1,091,245         | 134,698   | 119,889                 | 44,122            |
| Minnesota            | 1,060,927            | 507,133            | 87,261                     | 344,331           | 52,478    | 43,316                  | 26,408            |
| Mississippi          | 535,774              | 252,706            | 97,748                     | 156,102           | 12,594    | 13,423                  | 3,201             |
| Missouri             | 1,325,463            | 752,741            | 11,232                     | 329,918           | 112,776   | 103,989                 | 14,807            |
| Montana              | 273,459              | 150,698            | 24,757                     | 82,468            | 2,835     | 6,502                   | 6,199             |
| Nebraska             | 572,488              | 250,321            | 75,990                     | 167,091           | 29,952    | 22,195                  | 26,939            |
| Nevada               | 282,480              | 108,046            | 15,020                     | 142,013           | 4,335     | 5,636                   | 7,430             |
| New Hampshire        | 492,183              | 245,860            | 5,901                      | 193,098           | 14,862    | 25,658                  | 6,804             |
| New Jersey           | 1,331,199            | 651,428            | 95,140                     | 294,689           | 66,647    | 122,072                 | 101,223           |
| New Mexico           | 365,769              | 240,826            | 26,332                     | 71,433            | 4,060     | 16,014                  | 7,104             |
| New York             | 7,075,577            | 3,660,588          | 435,048                    | 1,655,848         | 487,620   | 529,480                 | 306,993           |
| North Carolina       | 3,388,360            | 1,944,527          | 161,707                    | 669,694           | 359,524   | 203,755                 | 49,153            |
| North Dakota         | 263,217              | 85,022             | 59,701                     | 97,900            | 12,557    | 2,053                   | 5,984             |

TABLE 68

**Higher education R&D expenditures, by state and source of funds: FY 2019**

(Dollars in thousands)

| State          | All R&D expenditures | Source of funds    |                            |                   |          |                         |                   |
|----------------|----------------------|--------------------|----------------------------|-------------------|----------|-------------------------|-------------------|
|                |                      | Federal government | State and local government | Institution funds | Business | Nonprofit organizations | All other sources |
| Ohio           | 2,499,431            | 1,478,481          | 104,399                    | 474,594           | 229,406  | 157,209                 | 55,342            |
| Oklahoma       | 533,785              | 219,744            | 60,153                     | 199,689           | 38,415   | 10,980                  | 4,804             |
| Oregon         | 863,844              | 588,171            | 56,392                     | 101,669           | 44,981   | 57,617                  | 15,014            |
| Pennsylvania   | 4,646,721            | 2,569,664          | 102,071                    | 1,234,511         | 297,480  | 295,295                 | 147,700           |
| Rhode Island   | 390,575              | 262,170            | 16,666                     | 80,659            | 8,429    | 16,395                  | 6,256             |
| South Carolina | 742,924              | 354,530            | 32,674                     | 265,562           | 44,090   | 30,260                  | 15,808            |
| South Dakota   | 118,377              | 57,660             | 18,883                     | 22,769            | 2,716    | 5,767                   | 10,582            |
| Tennessee      | 1,337,211            | 754,834            | 35,939                     | 393,458           | 76,014   | 56,350                  | 20,616            |
| Texas          | 5,967,210            | 2,347,454          | 854,553                    | 1,610,434         | 436,376  | 446,322                 | 272,071           |
| Utah           | 924,632              | 546,990            | 30,783                     | 250,096           | 49,479   | 35,546                  | 11,738            |
| Vermont        | 138,716              | 92,927             | 659                        | 32,005            | 3,216    | 8,894                   | 1,015             |
| Virginia       | 1,814,048            | 842,798            | 107,569                    | 598,996           | 92,490   | 105,656                 | 66,539            |
| Washington     | 1,829,550            | 1,169,318          | 81,093                     | 257,480           | 72,763   | 207,974                 | 40,922            |
| West Virginia  | 212,963              | 96,562             | 11,883                     | 76,244            | 6,254    | 6,239                   | 15,781            |
| Wisconsin      | 1,652,475            | 771,449            | 116,173                    | 518,225           | 57,286   | 139,361                 | 49,981            |
| Wyoming        | 80,353               | 52,082             | 4,594                      | 17,939            | 3,619    | 1,599                   | 520               |
| American Samoa | 860                  | 860                | 0                          | 0                 | 0        | 0                       | 0                 |
| Guam           | 12,249               | 9,339              | 1,742                      | 1,146             | 3        | 19                      | 0                 |
| Puerto Rico    | 121,074              | 80,444             | 2,115                      | 29,854            | 5,201    | 712                     | 2,748             |
| Virgin Islands | 12,236               | 10,445             | 359                        | 1,385             | 47       | 0                       | 0                 |

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2019.