

TABLE 70

## Higher education R&amp;D expenditures, by state, institutional control, institution, and source of funds: FY 2021

(Dollars in thousands)

| State, institutional control, and institution | All R&D expenditures | Source of funds    |                            |                   |           |                         |                   |
|---|----------------------|--------------------|----------------------------|-------------------|-----------|-------------------------|-------------------|
|   |                      | Federal government | State and local government | Institution funds | Business  | Nonprofit organizations | All other sources |
| United States                                 | 89,723,447           | 49,143,460         | 4,736,015                  | 22,448,362        | 5,115,480 | 5,590,273               | 2,689,857         |
| Public  | 58,667,378           | 30,103,415         | 4,355,632                  | 16,044,594        | 3,083,531 | 3,160,741               | 1,919,465         |
| Private                                       | 31,056,069           | 19,040,045         | 380,383                    | 6,403,768         | 2,031,949 | 2,429,532               | 770,392           |
| Alabama                                       | 1,272,489            | 734,518            | 63,697                     | 351,639           | 75,518    | 35,577                  | 11,540            |
| Public  | 1,251,134            | 719,094            | 61,021                     | 348,915           | 75,518    | 35,577                  | 11,009            |
| Alabama A&M U.                                | 9,065 i              | 5,967 i            | 2,534 i                    | 447 i             | 117 i     | 0 i                     | 0 i               |
| Alabama State U.                              | 2,631                | 2,338              | 0                          | 0                 | 287       | 6                       | 0                 |
| Auburn U., Auburn                             | 266,374              | 91,157             | 28,351                     | 130,767           | 6,492     | 1,818                   | 7,789             |
| Jacksonville State U.                         | 275                  | 245                | 0                          | 30                | 0         | 0                       | 0                 |
| Troy U.                                       | 1,548                | 1,488              | 0                          | 35                | 25        | 0                       | 0                 |
| U. Alabama, Birmingham                        | 644,330              | 423,290            | 9,355                      | 116,561           | 61,764    | 31,641                  | 1,719             |
| U. Alabama, Huntsville                        | 149,792              | 116,971            | 4,743                      | 26,294            | 688       | 610                     | 486               |
| U. Alabama, Tuscaloosa                        | 129,509              | 53,880             | 15,693                     | 55,682            | 2,679     | 1,291                   | 284               |
| U. South Alabama                              | 47,610               | 23,758             | 345                        | 19,099            | 3,466     | 211                     | 731               |
| Private                                       | 21,355               | 15,424             | 2,676                      | 2,724             | 0         | 0                       | 531               |
| Tuskegee U.                                   | 21,355               | 15,424             | 2,676                      | 2,724             | 0         | 0                       | 531               |
| Alaska  | 196,501              | 144,543            | 3,617                      | 40,547            | 3,703     | 2,185                   | 1,906             |
| Public  | 195,465              | 144,354            | 3,617                      | 40,547            | 2,886     | 2,168                   | 1,893             |
| U. Alaska, Anchorage                          | 21,332               | 15,079             | 1,631                      | 3,747             | 348       | 356                     | 171               |
| U. Alaska, Fairbanks                          | 172,957              | 128,229            | 1,956                      | 36,765            | 2,534     | 1,758                   | 1,715             |
| U. Alaska, Southeast                          | 1,176                | 1,046              | 30                         | 35                | 4         | 54                      | 7                 |
| Private                                       | 1,036                | 189                | 0                          | 0                 | 817       | 17                      | 13                |
| Alaska Pacific U.                             | 1,036                | 189                | 0                          | 0                 | 817       | 17                      | 13                |
| Arizona                                       | 1,516,463            | 669,402            | 82,173                     | 507,616           | 49,020    | 89,289                  | 118,963           |
| Public  | 1,516,463            | 669,402            | 82,173                     | 507,616           | 49,020    | 89,289                  | 118,963           |
| Arizona State U.                              | 677,303              | 274,541            | 43,390                     | 258,139           | 23,580    | 56,958                  | 20,695            |
| Northern Arizona U.                           | 69,129               | 41,744             | 10,179                     | 14,963            | 839       | 1,286                   | 118               |
| U. Arizona                                    | 770,031              | 353,117            | 28,604                     | 234,514           | 24,601    | 31,045                  | 98,150            |
| Arkansas                                      | 387,674              | 148,709            | 81,283                     | 119,966           | 20,542    | 11,316                  | 5,858             |
| Public  | 387,674              | 148,709            | 81,283                     | 119,966           | 20,542    | 11,316                  | 5,858             |
| Arkansas State U., Jonesboro                  | 8,422                | 4,249              | 3,103                      | 721               | 349       | 0                       | 0                 |
| U. Arkansas for Medical Sciences              | 194,709              | 83,387             | 24,809                     | 63,526            | 13,493    | 4,730                   | 4,764             |
| U. Arkansas, Fayetteville                     | 164,443              | 48,534             | 50,207                     | 51,933            | 6,561     | 6,257                   | 951               |

TABLE 70

**Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2021**

(Dollars in thousands)

| State, institutional control, and institution    | All R&D expenditures | Source of funds    |                            |                   |          |                         |                   |
|--|----------------------|--------------------|----------------------------|-------------------|----------|-------------------------|-------------------|
|  |                      | Federal government | State and local government | Institution funds | Business | Nonprofit organizations | All other sources |
| U. Arkansas, Little Rock                         | 7,397                | 6,939              | 79                         | 3                 | 139      | 94                      | 143               |
| U. Arkansas, Pine Bluff                          | 8,713                | 3,960              | 2,216                      | 2,502             | 0        | 35                      | 0                 |
| U. Central Arkansas                              | 3,990                | 1,640              | 869                        | 1,281             | 0        | 200                     | 0                 |
| California                                       | 11,229,857           | 5,770,381          | 435,763                    | 2,371,758         | 732,081  | 1,171,672               | 748,202           |
| Public   | 7,945,304            | 3,763,887          | 388,782                    | 1,813,410         | 512,662  | 820,546                 | 646,017           |
| California Polytechnic State U., San Luis Obispo | 25,953               | 11,163             | 2,537                      | 9,139             | 1,053    | 2,003                   | 58                |
| California State Polytechnic U., Pomona          | 7,011                | 4,396              | 846                        | 1,469             | 141      | 159                     | 0                 |
| California State U., Bakersfield                 | 6,253                | 3,827              | 215                        | 2,160             | 0        | 51                      | 0                 |
| California State U., Channel Islands             | 2,341                | 993                | 611                        | 542               | 186      | 9                       | 0                 |
| California State U., Chico                       | 4,209                | 2,258              | 792                        | 505               | 69       | 128                     | 457               |
| California State U., Dominguez Hills             | 2,690                | 2,001              | 19                         | 670               | 0        | 0                       | 0                 |
| California State U., East Bay                    | 20,108               | 9,275              | 1,443                      | 7,470             | 1,033    | 349                     | 538               |
| California State U., Fresno                      | 9,213                | 4,101              | 1,086                      | 2,278             | 186      | 1,232                   | 330               |
| California State U., Fullerton                   | 9,006                | 4,551              | 251                        | 3,904             | 97       | 203                     | 0                 |
| California State U., Long Beach                  | 15,134               | 11,178             | 877                        | 1,113             | 195      | 528                     | 1,243             |
| California State U., Los Angeles                 | 9,382                | 7,342              | 108                        | 1,561             | 0        | 371                     | 0                 |
| California State U., Maritime Academy            | 2,799                | 548                | 131                        | 18                | 2,102    | 0                       | 0                 |
| California State U., Monterey Bay                | 6,882                | 3,813              | 1,277                      | 1,610             | 3        | 172                     | 7                 |
| California State U., Northridge                  | 16,573               | 13,989             | 353                        | 1,051             | 81       | 1,099                   | 0                 |
| California State U., Sacramento                  | 23,699               | 5,582              | 11,012                     | 5,344             | 147      | 508                     | 1,106             |
| California State U., San Bernardino              | 11,607               | 5,867              | 2,928                      | 2,652             | 20       | 140                     | 0                 |
| California State U., San Marcos                  | 10,213               | 8,831              | 1,110                      | 267               | 0        | 5                       | 0                 |
| California State U., Stanislaus                  | 2,085                | 1,354              | 104                        | 112               | 504      | 11                      | 0                 |
| Humboldt State U.                                | 14,103               | 1,975              | 3,971                      | 3,818             | 164      | 2,108                   | 2,067             |
| Naval Postgraduate School                        | 65,101               | 54,855             | 0                          | 9,608             | 264      | 62                      | 312               |
| San Diego State U.                               | 107,681              | 43,473             | 4,107                      | 56,085            | 523      | 2,340                   | 1,153             |
| San Francisco State U.                           | 35,768               | 15,993             | 2,305                      | 16,710            | 0        | 743                     | 17                |
| San Jose State U.                                | 60,100               | 30,877             | 7,617                      | 19,350            | 1,080    | 1,071                   | 105               |
| Sonoma State U.                                  | 2,957                | 2,212              | 366                        | 261               | 69       | 49                      | 0                 |
| U. California, Berkeley                          | 846,872              | 354,478            | 40,383                     | 185,077           | 71,696   | 137,896                 | 57,342            |
| U. California, Davis                             | 817,409              | 373,719            | 75,116                     | 207,272           | 56,160   | 44,693                  | 60,449            |
| U. California, Irvine                            | 523,752              | 255,010            | 15,891                     | 130,928           | 40,622   | 34,512                  | 46,789            |
| U. California, Los Angeles                       | 1,454,880            | 721,043            | 71,014                     | 302,528           | 87,959   | 194,232                 | 78,104            |

TABLE 70

**Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2021**

(Dollars in thousands)

| State, institutional control, and institution | All R&D expenditures | Source of funds    |                            |                   |          |                         |                   |
|---|----------------------|--------------------|----------------------------|-------------------|----------|-------------------------|-------------------|
|   |                      | Federal government | State and local government | Institution funds | Business | Nonprofit organizations | All other sources |
| U. California, Merced                         | 45,964               | 18,621             | 7,048                      | 14,224            | 373      | 1,290                   | 4,408             |
| U. California, Office of the President        | 50,848               | 653                | 29,282                     | 20,864            | 0        | 0                       | 49                |
| U. California, Riverside                      | 189,600              | 97,182             | 11,424                     | 49,131            | 6,809    | 7,703                   | 17,351            |
| U. California, San Diego                      | 1,425,499            | 801,117            | 51,346                     | 250,863           | 85,003   | 87,380                  | 149,790           |
| U. California, San Francisco                  | 1,710,036            | 683,179            | 33,056                     | 418,589           | 128,370  | 254,406                 | 192,436           |
| U. California, Santa Barbara                  | 248,961              | 122,168            | 5,213                      | 54,569            | 20,480   | 28,768                  | 17,763            |
| U. California, Santa Cruz                     | 160,615              | 86,263             | 4,943                      | 31,668            | 7,273    | 16,325                  | 14,143            |
| Private                                       | 3,284,553            | 2,006,494          | 46,981                     | 558,348           | 219,419  | 351,126                 | 102,185           |
| Azusa Pacific U.                              | 5,318                | 212                | 59                         | 4,893             | 2        | 152                     | 0                 |
| Biola U.                                      | 1,243                | 714                | 18                         | 302               | 80       | 98                      | 31                |
| California Institute of Technology            | 438,624              | 293,197            | 8,142                      | 50,562            | 17,193   | 47,355                  | 22,175            |
| Chapman U.                                    | 25,820               | 8,574              | 612                        | 10,273            | 567      | 5,766                   | 28                |
| Charles R. Drew U. of Medicine and Science    | 13,228               | 9,945              | 151                        | 2,834             | 0        | 298                     | 0                 |
| Claremont Graduate U.                         | 7,235                | 1,152              | 306                        | 1,275             | 1,518    | 2,355                   | 629               |
| Claremont McKenna C.                          | 4,515                | 637                | 0                          | 3,548             | 0        | 330                     | 0                 |
| Fielding Graduate U.                          | 843                  | 791                | 0                          | 52                | 0        | 0                       | 0                 |
| Harvey Mudd C.                                | 2,359                | 1,443              | 0                          | 695               | 11       | 98                      | 112               |
| High Tech High Graduate School of Ed.         | 5,032                | 0                  | 0                          | 0                 | 0        | 5,032                   | 0                 |
| Keck Graduate Institute                       | 2,254                | 1,201              | 0                          | 697               | 144      | 35                      | 177               |
| La Sierra U.                                  | 1,517                | 812                | 0                          | 137               | 0        | 568                     | 0                 |
| Loma Linda U.                                 | 14,029               | 10,116             | 444                        | 1,932             | 241      | 1,160                   | 136               |
| Loyola Marymount U.                           | 12,819               | 2,170              | 1,393                      | 8,148             | 20       | 1,088                   | 0                 |
| Marshall B. Ketchum U.                        | 1,351                | 343                | 0                          | 668               | 340      | 0                       | 0                 |
| Mills C.                                      | 850                  | 683                | 0                          | 0                 | 0        | 129                     | 38                |
| Occidental C.                                 | 3,587                | 2,348              | 395                        | NA                | 392      | 452                     | 0                 |
| Pepperdine U.                                 | 2,655                | 835                | 16                         | 1,444             | 0        | 355                     | 5                 |
| Pomona C.                                     | 2,146                | 930                | 9                          | 1,140             | 0        | 67                      | 0                 |
| Santa Clara U.                                | 3,142                | 1,930              | 118                        | NA                | 558      | 536                     | 0                 |
| Scripps Research Institute                    | 485,435              | 272,181            | 2,103                      | 147,290           | 22,399   | 41,462                  | 0                 |
| Stanford U.                                   | 1,274,483            | 811,183            | 17,802                     | 136,444           | 113,691  | 186,565                 | 8,798             |
| Touro U.                                      | 3,489                | 1,377              | 0                          | 2,091             | 20       | 1                       | 0                 |
| U. of the Pacific                             | 1,371                | 1,106              | 211                        | NA                | 11       | 43                      | 0                 |
| U. San Diego                                  | 7,580                | 2,554              | 26                         | 4,203             | 0        | 414                     | 383               |

TABLE 70

**Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2021**

(Dollars in thousands)

| State, institutional control, and institution | All R&D expenditures | Source of funds    |                            |                   |          |                         |                   |
|---|----------------------|--------------------|----------------------------|-------------------|----------|-------------------------|-------------------|
|   |                      | Federal government | State and local government | Institution funds | Business | Nonprofit organizations | All other sources |
| U. San Francisco                              | 1,375                | 255                | 200                        | 466               | 0        | 434                     | 20                |
| U. Southern California                        | 955,565              | 574,185            | 14,664                     | 179,130           | 61,867   | 56,073                  | 69,646            |
| Western U. of Health Sciences                 | 6,688                | 5,620              | 312                        | 124               | 365      | 260                     | 7                 |
| Colorado                                      | 1,746,975            | 1,269,099          | 65,611                     | 193,624           | 82,884   | 89,451                  | 46,306            |
| Public  | 1,702,757            | 1,241,959          | 64,275                     | 186,180           | 81,144   | 83,388                  | 45,811            |
| Colorado School of Mines                      | 81,443               | 61,421             | 1,351                      | 3,657             | 9,036    | 1,990                   | 3,988             |
| Colorado State U., Fort Collins               | 447,197              | 303,901            | 28,559                     | 76,610            | 11,979   | 19,536                  | 6,612             |
| Colorado State U., Pueblo                     | 2,990                | 1,508              | 1,244                      | 201               | 0        | 0                       | 37                |
| Fort Lewis C.                                 | 1,926                | 1,746              | 14                         | 124               | 42       | 0                       | 0                 |
| U. Colorado Anschutz Medical Campus           | 562,855              | 363,999            | 25,162                     | 69,836            | 48,309   | 45,580                  | 9,969             |
| U. Colorado Boulder                           | 547,724              | 459,816            | 4,348                      | 33,465            | 10,691   | 14,357                  | 25,047            |
| U. Colorado Colorado Springs                  | 5,338                | 3,942              | 504                        | 338               | 518      | 36                      | 0                 |
| U. Colorado Denver <sup>a</sup>               | 18,039               | 11,866             | 3,047                      | 804               | 493      | 1,671                   | 158               |
| U. Northern Colorado                          | 3,159                | 1,942              | 46                         | 945               | 8        | 218                     | 0                 |
| U.S. Air Force Academy                        | 32,086               | 31,818             | 0                          | 200               | 68       | 0                       | 0                 |
| Private                                       | 44,218               | 27,140             | 1,336                      | 7,444             | 1,740    | 6,063                   | 495               |
| Colorado C.                                   | 5,467                | 3,725              | 385                        | 575               | 0        | 782                     | 0                 |
| U. Denver                                     | 38,751               | 23,415             | 951                        | 6,869             | 1,740    | 5,281                   | 495               |
| Connecticut                                   | 1,494,357            | 841,978            | 10,040                     | 434,302           | 87,096   | 107,751                 | 13,190            |
| Public  | 311,039              | 184,846            | 4,747                      | 94,622            | 9,827    | 13,163                  | 3,834             |
| Central Connecticut State U.                  | 1,314                | 663                | 254                        | 390               | 0        | 7                       | 0                 |
| Eastern Connecticut State U.                  | 1,646                | 108                | 9                          | 1,529             | 0        | 0                       | 0                 |
| Southern Connecticut State U.                 | 5,750                | 713                | 90                         | 4,245             | 0        | 473                     | 229               |
| U. Connecticut                                | 302,329              | 183,362            | 4,394                      | 88,458            | 9,827    | 12,683                  | 3,605             |
| Private                                       | 1,183,318            | 657,132            | 5,293                      | 339,680           | 77,269   | 94,588                  | 9,356             |
| Connecticut C.                                | 1,244                | 439                | 0                          | 785               | 0        | 20                      | 0                 |
| Fairfield U.                                  | 849                  | 147                | 0                          | 354               | 0        | 348                     | 0                 |
| Sacred Heart U.                               | 972                  | 675                | 0                          | 244               | 0        | 53                      | 0                 |
| Trinity C., Hartford                          | 1,775                | 1,348              | 0                          | 409               | 0        | 18                      | 0                 |
| U. Hartford                                   | 1,252                | 766                | 0                          | 361               | 5        | 120                     | 0                 |
| U. New Haven                                  | 4,069                | 2,069              | 434                        | 209               | 418      | 832                     | 107               |
| Wesleyan U.                                   | 8,009                | 4,032              | 0                          | 3,004             | 62       | 854                     | 57                |
| Yale U.                                       | 1,165,148            | 647,656            | 4,859                      | 334,314           | 76,784   | 92,343                  | 9,192             |

TABLE 70

**Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2021**

(Dollars in thousands)

| State, institutional control, and institution | All R&D expenditures | Source of funds    |                            |                   |          |                         |                   |
|---|----------------------|--------------------|----------------------------|-------------------|----------|-------------------------|-------------------|
|   |                      | Federal government | State and local government | Institution funds | Business | Nonprofit organizations | All other sources |
| Delaware                                      | 254,725              | 174,185            | 12,767                     | 51,348            | 6,221    | 4,188                   | 6,016             |
| Public  | 254,725              | 174,185            | 12,767                     | 51,348            | 6,221    | 4,188                   | 6,016             |
| Delaware State U.                             | 23,193               | 16,460             | 2,432                      | 4,094             | 195      | 12                      | 0                 |
| U. Delaware                                   | 231,532              | 157,725            | 10,335                     | 47,254            | 6,026    | 4,176                   | 6,016             |
| District of Columbia                          | 717,928              | 375,192            | 6,985                      | 177,678           | 25,301   | 95,094                  | 37,678            |
| Public  | 11,890               | 10,637             | 1,253                      | 0                 | 0        | 0                       | 0                 |
| National Defense U.                           | 3,786                | 3,786              | 0                          | 0                 | 0        | 0                       | 0                 |
| U. of the District of Columbia                | 8,104                | 6,851              | 1,253                      | 0                 | 0        | 0                       | 0                 |
| Private                                       | 706,038              | 364,555            | 5,732                      | 177,678           | 25,301   | 95,094                  | 37,678            |
| American U.                                   | 65,912               | 12,076             | 513                        | 42,117            | 774      | 9,199                   | 1,233             |
| Catholic U. of America                        | 35,548               | 23,128             | 150                        | 5,753             | 624      | 1,013                   | 4,880             |
| Gallaudet U.                                  | 6,126                | 2,140              | 192                        | 3,049             | 0        | 327                     | 418               |
| George Washington U.                          | 266,108              | 161,349            | 2,296                      | 63,225            | 4,155    | 26,131                  | 8,952             |
| Georgetown U.                                 | 279,932              | 130,419            | 1,405                      | 51,440            | 16,888   | 57,585                  | 22,195            |
| Howard U.                                     | 52,412               | 35,443             | 1,176                      | 12,094            | 2,860    | 839                     | 0                 |
| Florida                                       | 2,769,387            | 1,333,317          | 273,283                    | 894,472           | 104,512  | 104,369                 | 59,434            |
| Public  | 2,326,008            | 1,064,022          | 252,744                    | 807,515           | 67,239   | 78,300                  | 56,188            |
| Florida A&M U.                                | 47,124               | 36,761             | 5,741                      | 3,886             | 566      | 170                     | 0                 |
| Florida Atlantic U.                           | 58,471               | 28,510             | 5,852                      | 13,984            | 2,762    | 4,968                   | 2,395             |
| Florida Gulf Coast U.                         | 8,197                | 4,467              | 3,160                      | 0                 | 136      | 434                     | 0                 |
| Florida International U.                      | 246,075              | 105,309            | 19,445                     | 111,950           | 2,311    | 6,437                   | 623               |
| Florida Polytechnic U.                        | 1,269                | 459                | 91                         | 606               | 89       | 17                      | 7                 |
| Florida State U.                              | 328,604              | 150,108            | 20,583                     | 143,790           | 3,033    | 3,764                   | 7,326             |
| U. Central Florida                            | 218,596              | 109,310            | 11,703                     | 76,091            | 11,489   | 5,025                   | 4,978             |
| U. Florida                                    | 959,965              | 423,154            | 161,448                    | 266,197           | 31,394   | 46,582                  | 31,190            |
| U. North Florida                              | 15,782               | 7,267              | 1,297                      | 7,084             | 47       | 64                      | 23                |
| U. South Florida <sup>b</sup>                 | 405,088              | 185,364            | 23,254                     | 161,442           | 14,798   | 10,584                  | 9,646             |
| U. West Florida                               | 36,837               | 13,313             | 170                        | 22,485            | 614      | 255                     | 0                 |
| Private                                       | 443,379              | 269,295            | 20,539                     | 86,957            | 37,273   | 26,069                  | 3,246             |
| Embry-Riddle Aeronautical U.                  | 19,830               | 14,859             | 103                        | 1,365             | 1,195    | 426                     | 1,882             |
| Florida Institute of Technology               | 23,195               | 13,049             | 1,743                      | 6,485             | 824      | 703                     | 391               |
| Nova Southeastern U.                          | 24,513               | 10,386             | 3,636                      | 9,152             | 486      | 629                     | 224               |
| U. Miami                                      | 375,841              | 231,001            | 15,057                     | 69,955            | 34,768   | 24,311                  | 749               |

TABLE 70

**Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2021**

(Dollars in thousands)

| State, institutional control, and institution | All R&D expenditures | Source of funds    |                            |                   |          |                         |                   |
|---|----------------------|--------------------|----------------------------|-------------------|----------|-------------------------|-------------------|
|   |                      | Federal government | State and local government | Institution funds | Business | Nonprofit organizations | All other sources |
| Georgia                                       | 2,949,654            | 1,783,614          | 170,835                    | 718,957           | 139,083  | 121,879                 | 15,286            |
| Public  | 1,996,399            | 1,196,306          | 169,850                    | 488,824           | 75,050   | 55,761                  | 10,608            |
| Albany State U.                               | 880                  | 552                | 203                        | 0                 | 125      | 0                       | 0                 |
| Augusta U.                                    | 116,480              | 61,943             | 200                        | 46,412            | 3,282    | 4,531                   | 112               |
| Fort Valley State U.                          | 4,842                | 4,429              | 42                         | 371               | 0        | 0                       | 0                 |
| Georgia Institute of Technology               | 1,114,481            | 852,319            | 107,465                    | 71,780            | 56,015   | 23,558                  | 3,344             |
| Georgia Southern U.                           | 37,201               | 3,373              | 259                        | 29,635            | 3,482    | 452                     | 0                 |
| Georgia State U.                              | 206,472              | 79,834             | 6,353                      | 105,546           | 615      | 11,938                  | 2,186             |
| Kennesaw State U.                             | 18,880               | 3,104              | 619                        | 13,722            | 318      | 1,032                   | 85                |
| Savannah State U.                             | 1,804                | 1,804              | 0                          | 0                 | 0        | 0                       | 0                 |
| U. Georgia                                    | 493,944              | 188,451            | 54,706                     | 220,665           | 11,212   | 14,029                  | 4,881             |
| U. North Georgia                              | 1,415                | 497                | 3                          | 693               | 1        | 221                     | 0                 |
| Private                                       | 953,255              | 587,308            | 985                        | 230,133           | 64,033   | 66,118                  | 4,678             |
| Clark Atlanta U.                              | 8,892                | 5,355              | 0                          | 3,435             | 57       | 45                      | 0                 |
| Emory U.                                      | 852,922              | 515,940            | 298                        | 213,741           | 58,517   | 62,768                  | 1,658             |
| Mercer U.                                     | 51,989               | 34,413             | 76                         | 9,056             | 5,342    | 82                      | 3,020             |
| Morehouse C.                                  | 4,533                | 4,533              | 0                          | 0                 | 0        | 0                       | 0                 |
| Morehouse School of Medicine                  | 32,637               | 25,181             | 611                        | 3,622             | 0        | 3,223                   | 0                 |
| Spelman C.                                    | 2,282                | 1,886              | 0                          | 279               | 117      | 0                       | 0                 |
| Hawaii  | 294,913              | 178,662            | 20,848                     | 79,701            | 2,826    | 11,595                  | 1,281             |
| Public  | 293,064              | 176,921            | 20,812                     | 79,665            | 2,826    | 11,559                  | 1,281             |
| U. Hawaii, Hilo                               | 7,411                | 5,510              | 53                         | 1,260             | 166      | 421                     | 1                 |
| U. Hawaii, Manoa                              | 271,768              | 157,772            | 20,742                     | 78,176            | 2,660    | 11,138                  | 1,280             |
| U. Hawaii, Maui C.                            | 967                  | 951                | 0                          | 16                | 0        | 0                       | 0                 |
| U. Hawaii, system office                      | 12,918               | 12,688             | 17                         | 213               | 0        | 0                       | 0                 |
| Private                                       | 1,849                | 1,741              | 36                         | 36                | 0        | 36                      | 0                 |
| Hawaii Pacific U.                             | 1,849                | 1,741              | 36                         | 36                | 0        | 36                      | 0                 |
| Idaho   | 165,913              | 89,594             | 37,775                     | 31,110            | 2,757    | 1,520                   | 3,157             |
| Public  | 165,913              | 89,594             | 37,775                     | 31,110            | 2,757    | 1,520                   | 3,157             |
| Boise State U.                                | 46,065               | 31,357             | 2,402                      | 10,836            | 576      | 670                     | 224               |
| Idaho State U.                                | 13,953               | 7,216              | 1,982                      | 3,937             | 387      | 264                     | 167               |
| U. Idaho                                      | 105,895              | 51,021             | 33,391                     | 16,337            | 1,794    | 586                     | 2,766             |
| Illinois                                      | 2,914,398            | 1,797,549          | 39,911                     | 707,784           | 177,929  | 155,002                 | 36,223            |

TABLE 70

**Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2021**

(Dollars in thousands)

| State, institutional control, and institution | All R&D expenditures | Source of funds    |                            |                   |          |                         |                   |
|---|----------------------|--------------------|----------------------------|-------------------|----------|-------------------------|-------------------|
|   |                      | Federal government | State and local government | Institution funds | Business | Nonprofit organizations | All other sources |
| Public  | 1,283,577            | 686,074            | 37,762                     | 411,886           | 63,931   | 60,405                  | 23,519            |
| Illinois State U.                             | 24,152               | 9,787              | 746                        | 12,813            | 25       | 772                     | 9                 |
| Northeastern Illinois U.                      | 1,913                | 1,913              | 0                          | 0                 | 0        | 0                       | 0                 |
| Northern Illinois U.                          | 25,261               | 9,080              | 899                        | 14,630            | 155      | 467                     | 30                |
| Southern Illinois U., Carbondale              | 47,210               | 12,655             | 492                        | 25,725            | 7,901    | 437                     | 0                 |
| Southern Illinois U., Edwardsville            | 18,044               | 3,844              | 71                         | 13,848            | 221      | 22                      | 38                |
| U. Illinois, Chicago                          | 429,585              | 237,949            | 8,027                      | 137,227           | 13,998   | 25,065                  | 7,319             |
| U. Illinois, Springfield                      | 2,612                | 1,071              | 670                        | 839               | 0        | 32                      | 0                 |
| U. Illinois, Urbana-Champaign                 | 731,268              | 406,612            | 26,853                     | 206,718           | 41,455   | 33,562                  | 16,068            |
| Western Illinois U.                           | 3,532                | 3,163              | 4                          | 86                | 176      | 48                      | 55                |
| Private                                       | 1,630,821            | 1,111,475          | 2,149                      | 295,898           | 113,998  | 94,597                  | 12,704            |
| DePaul U.                                     | 6,675                | 4,518              | 150                        | 1,120             | 203      | 666                     | 18                |
| Erikson Institute                             | 1,723                | 772                | 16                         | 31                | 0        | 904                     | 0                 |
| Illinois Institute of Technology              | 29,698               | 24,762             | 291                        | 2,080             | 1,074    | 861                     | 630               |
| Loyola U., Chicago                            | 44,036               | 26,793             | 188                        | 8,941             | 3,359    | 3,695                   | 1,060             |
| Midwestern U.                                 | 10,961               | 1,506              | 22                         | 9,040             | 178      | 215                     | 0                 |
| Northwestern U.                               | 913,178              | 572,975            | 141                        | 227,719           | 54,888   | 47,280                  | 10,175            |
| Rosalind Franklin U. of Medicine and Science  | 13,805               | 9,357              | 0                          | 3,219             | 520      | 705                     | 4                 |
| Rush U.                                       | 107,398              | 73,279             | 1,338                      | 9,645             | 15,329   | 7,807                   | 0                 |
| Toyota Technological Institute, Chicago       | 4,967                | 3,090              | 0                          | 1,602             | 232      | 43                      | 0                 |
| U. Chicago                                    | 497,651              | 394,275            | 3                          | 32,174            | 38,215   | 32,167                  | 817               |
| Wheaton C., Wheaton                           | 729                  | 148                | 0                          | 327               | 0        | 254                     | 0                 |
| Indiana                                       | 1,699,302            | 767,854            | 44,138                     | 595,282           | 110,373  | 118,866                 | 62,789            |
| Public  | 1,458,978            | 657,963            | 43,473                     | 511,074           | 96,874   | 101,573                 | 48,021            |
| Ball State U.                                 | 8,826                | 2,469              | 266                        | 5,153             | 702      | 236                     | 0                 |
| Indiana State U.                              | 1,042                | 582                | 244                        | 135               | 68       | 13                      | 0                 |
| Indiana U., Bloomington                       | 695,258              | 326,326            | 3,863                      | 264,093           | 29,077   | 70,216                  | 1,683             |
| Indiana U., South Bend                        | 898                  | 337                | 0                          | 423               | 0        | 138                     | 0                 |
| Indiana U.-Purdue U., Indianapolis            | 65,330               | 30,290             | 687                        | 27,359            | 1,855    | 4,970                   | 169               |
| Purdue U., Fort Wayne                         | 2,495                | 401                | 513                        | 818               | 141      | 50                      | 572               |
| Purdue U., Northwest                          | 5,647                | 2,280              | 531                        | 1,536             | 667      | 93                      | 540               |
| Purdue U., West Lafayette                     | 679,482              | 295,278            | 37,369                     | 211,557           | 64,364   | 25,857                  | 45,057            |
| Private                                       | 240,324              | 109,891            | 665                        | 84,208            | 13,499   | 17,293                  | 14,768            |

TABLE 70

**Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2021**

(Dollars in thousands)

| State, institutional control, and institution | All R&D expenditures | Source of funds    |                            |                   |          |                         |                   |
|---|----------------------|--------------------|----------------------------|-------------------|----------|-------------------------|-------------------|
|   |                      | Federal government | State and local government | Institution funds | Business | Nonprofit organizations | All other sources |
| U. Notre Dame                                 | 240,324              | 109,891            | 665                        | 84,208            | 13,499   | 17,293                  | 14,768            |
| Iowa  | 931,207              | 459,107            | 40,296                     | 352,448           | 45,609   | 28,862                  | 4,885             |
| Public  | 917,410              | 454,935            | 40,022                     | 344,077           | 45,373   | 28,325                  | 4,678             |
| Iowa State U.                                 | 360,275              | 169,177            | 34,097                     | 122,844           | 19,837   | 9,644                   | 4,676             |
| U. Iowa                                       | 553,876              | 283,763            | 5,395                      | 220,579           | 25,536   | 18,601                  | 2                 |
| U. Northern Iowa                              | 3,259                | 1,995              | 530                        | 654               | 0        | 80                      | 0                 |
| Private                                       | 13,797               | 4,172              | 274                        | 8,371             | 236      | 537                     | 207               |
| Des Moines U.                                 | 5,258                | 485                | 266                        | 4,247             | 3        | 257                     | 0                 |
| Dordt U.                                      | 696                  | 594                | 0                          | 88                | 0        | 14                      | 0                 |
| Drake U.                                      | 1,488                | 1,016              | 8                          | 157               | 233      | 74                      | 0                 |
| Grinnell C.                                   | 4,122                | 344                | 0                          | 3,379             | 0        | 192                     | 207               |
| Palmer C. of Chiropractic, Davenport          | 2,233                | 1,733              | 0                          | 500               | 0        | 0                       | 0                 |
| Kansas  | 785,055              | 343,696            | 83,259                     | 201,262           | 121,826  | 19,949                  | 15,063            |
| Public  | 785,055              | 343,696            | 83,259                     | 201,262           | 121,826  | 19,949                  | 15,063            |
| Fort Hays State U.                            | 800                  | 482                | 37                         | 185               | 48       | 6                       | 42                |
| Kansas State U.                               | 203,846              | 77,779             | 42,139                     | 68,224            | 6,671    | 7,814                   | 1,219             |
| Pittsburg State U.                            | 2,730                | 759                | 1,001                      | NA                | 969      | 1                       | 0                 |
| U. Kansas                                     | 385,637              | 187,249            | 33,921                     | 112,360           | 27,517   | 11,831                  | 12,759            |
| Wichita State U.                              | 192,042              | 77,427             | 6,161                      | 20,493            | 86,621   | 297                     | 1,043             |
| Kentucky                                      | 655,290              | 331,080            | 45,998                     | 199,017           | 18,685   | 19,409                  | 41,101            |
| Public  | 655,290              | 331,080            | 45,998                     | 199,017           | 18,685   | 19,409                  | 41,101            |
| Eastern Kentucky U.                           | 986                  | 530                | 76                         | 351               | 0        | 29                      | 0                 |
| Kentucky State U.                             | 8,756                | 3,716              | 4,870                      | 0                 | 72       | 98                      | 0                 |
| Morehead State U.                             | 1,754                | 1,727              | 3                          | 12                | 11       | 1                       | 0                 |
| Murray State U.                               | 3,844                | 2,721              | 21                         | 982               | 120      | 0                       | 0                 |
| Northern Kentucky U.                          | 3,403                | 2,156              | 13                         | 774               | 2        | 458                     | 0                 |
| U. Kentucky                                   | 429,241              | 220,703            | 33,287                     | 127,488           | 8,529    | 11,078                  | 28,156            |
| U. Louisville                                 | 200,362              | 97,179             | 7,351                      | 65,375            | 9,846    | 7,685                   | 12,926            |
| Western Kentucky U.                           | 6,944                | 2,348              | 377                        | 4,035             | 105      | 60                      | 19                |
| Louisiana                                     | 830,787              | 362,723            | 91,071                     | 231,144           | 92,424   | 29,624                  | 23,801            |
| Public  | 610,254              | 236,434            | 85,920                     | 179,511           | 84,145   | 13,880                  | 10,364            |
| Grambling State U.                            | 2,124                | 731                | 595                        | 798               | 0        | 0                       | 0                 |
| Louisiana State U., Baton Rouge               | 296,673              | 103,178            | 70,166                     | 98,424            | 11,492   | 5,959                   | 7,454             |



TABLE 70

**Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2021**

(Dollars in thousands)

| State, institutional control, and institution                      | All R&D expenditures | Source of funds    |                            |                   |          |                         |                   |
|--|----------------------|--------------------|----------------------------|-------------------|----------|-------------------------|-------------------|
|  |                      | Federal government | State and local government | Institution funds | Business | Nonprofit organizations | All other sources |
| Louisiana State U., Health Sciences Center, New Orleans            | 44,370               | 34,272             | 244                        | 3,743             | 2,800    | 3,178                   | 133               |
| Louisiana State U., Health Sciences Center, Shreveport             | 24,600               | 12,359             | 19                         | 8,765             | 297      | 3,160                   | 0                 |
| Louisiana Tech U.  | 27,417               | 6,428              | 2,767                      | 15,465            | 937      | 0                       | 1,820             |
| Northwestern State U. Louisiana                                    | 1,663                | 738                | 634                        | 291               | 0        | 0                       | 0                 |
| Southeastern Louisiana U.  | 1,723                | 795                | 55                         | 663               | 197      | 13                      | 0                 |
| Southern U. and A&M C., Agricultural Research and Extension Center | 6,164                | 3,588              | 2,556                      | 20                | 0        | 0                       | 0                 |
| Southern U. and A&M C., Baton Rouge                                | 4,943                | 3,770              | 95                         | 374               | 704      | 0                       | 0                 |
| U. Louisiana, Lafayette  | 181,400              | 65,436             | 7,472                      | 40,891            | 67,346   | 255                     | 0                 |
| U. Louisiana, Monroe   | 2,198                | 1,465              | 569                        | 8                 | 0        | 156                     | 0                 |
| U. New Orleans   | 16,979               | 3,674              | 748                        | 10,069            | 372      | 1,159                   | 957               |
| Private  | 220,533              | 126,289            | 5,151                      | 51,633            | 8,279    | 15,744                  | 13,437            |
| Dillard U.   | 2,528                | 1,257              | 0                          | 1,271             | 0        | 0                       | 0                 |
| Tulane U.  | 205,206              | 113,819            | 4,442                      | 49,660            | 8,279    | 15,569                  | 13,437            |
| Xavier U. Louisiana  | 12,799               | 11,213             | 709                        | 702               | 0        | 175                     | 0                 |
| Maine  | 165,224              | 75,798             | 20,790                     | 59,785            | 3,701    | 4,095                   | 1,055             |
| Public   | 152,281              | 67,269             | 20,778                     | 56,708            | 3,612    | 3,047                   | 867               |
| U. Maine   | 146,801              | 65,249             | 17,875                     | 56,407            | 3,612    | 2,857                   | 801               |
| U. Southern Maine  | 5,480                | 2,020              | 2,903                      | 301               | 0        | 190                     | 66                |
| Private  | 12,943               | 8,529              | 12                         | 3,077             | 89       | 1,048                   | 188               |
| Bates C.   | 2,620                | 2,079              | 0                          | 188               | 0        | 165                     | 188               |
| Bowdoin C.   | 2,417                | 1,836              | 6                          | 440               | 0        | 135                     | 0                 |
| Colby C.   | 1,672                | 750                | 0                          | 427               | 0        | 495                     | 0                 |
| U. New England   | 6,234                | 3,864              | 6                          | 2,022             | 89       | 253                     | 0                 |
| Maryland   | 4,914,256            | 3,890,484          | 88,833                     | 563,641           | 136,450  | 220,952                 | 13,896            |
| Public   | 1,732,871            | 1,115,841          | 84,156                     | 416,286           | 33,288   | 75,925                  | 7,375             |
| Bowie State U.   | 1,398                | 1,398              | 0                          | 0                 | 0        | 0                       | 0                 |
| Morgan State U.  | 20,628               | 16,319             | 2,782                      | 389               | 225      | 571                     | 342               |
| Salisbury U.   | 10,552               | 3,271              | 3,604                      | 3,567             | 8        | 102                     | 0                 |
| Towson U.  | 3,794                | 1,758              | 153                        | 1,608             | 42       | 181                     | 52                |
| U. Baltimore   | 14,672               | 11,692             | 1,907                      | NA                | 0        | 745                     | 328               |
| U. Maryland <sup>c</sup>   | 1,142,264            | 713,283            | 42,597                     | 307,481           | 30,638   | 43,450                  | 4,815             |
| U. Maryland Center for Environmental Science                       | 51,201               | 14,072             | 25,740                     | 8,670             | 496      | 1,636                   | 587               |
| U. Maryland, Baltimore County                                      | 84,418               | 59,882             | 7,220                      | 12,334            | 1,860    | 1,979                   | 1,143             |

TABLE 70

**Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2021**

(Dollars in thousands)

| State, institutional control, and institution | All R&D expenditures | Source of funds    |                            |                   |          |                         |                   |
|---|----------------------|--------------------|----------------------------|-------------------|----------|-------------------------|-------------------|
|   |                      | Federal government | State and local government | Institution funds | Business | Nonprofit organizations | All other sources |
| U. Maryland, Eastern Shore                    | 8,636                | 8,346              | 153                        | 10                | 19       | 0                       | 108               |
| U.S. Naval Academy                            | 10,818               | 10,247             | 0                          | 169               | 0        | 402                     | 0                 |
| Uniformed Services U. of the Health Sciences  | 384,490              | 275,573            | 0                          | 82,058            | 0        | 26,859                  | 0                 |
| Private                                       | 3,181,385            | 2,774,643          | 4,677                      | 147,355           | 103,162  | 145,027                 | 6,521             |
| Johns Hopkins U. <sup>d</sup>                 | 3,181,385            | 2,774,643          | 4,677                      | 147,355           | 103,162  | 145,027                 | 6,521             |
| Massachusetts                                 | 4,568,999            | 2,615,651          | 48,120                     | 1,005,685         | 311,606  | 424,453                 | 163,484           |
| Public  | 754,263              | 445,827            | 29,153                     | 200,347           | 31,615   | 34,663                  | 12,658            |
| Framingham State U.                           | 2,401 i              | 188 i              | 0 i                        | 0 i               | 81 i     | 2,132 i                 | 0 i               |
| U. Massachusetts, Amherst                     | 213,824              | 116,349            | 8,595                      | 71,954            | 7,710    | 5,479                   | 3,737             |
| U. Massachusetts, Boston                      | 63,723               | 23,673             | 7,113                      | 25,532            | 2,222    | 4,829                   | 354               |
| U. Massachusetts, central office              | 3,541                | 342                | 2,417                      | 256               | 1        | 504                     | 21                |
| U. Massachusetts, Dartmouth                   | 28,729               | 8,223              | 1,422                      | 16,908            | 1,488    | 513                     | 175               |
| U. Massachusetts, Lowell                      | 94,708               | 48,179             | 4,201                      | 36,562            | 3,444    | 1,664                   | 658               |
| U. Massachusetts, Medical School              | 347,337              | 248,873            | 5,405                      | 49,135            | 16,669   | 19,542                  | 7,713             |
| Private                                       | 3,814,736            | 2,169,824          | 18,967                     | 805,338           | 279,991  | 389,790                 | 150,826           |
| Amherst C.                                    | 4,636                | 1,375              | 0                          | 1,895             | 0        | 71                      | 1,295             |
| Babson C.                                     | 1,286                | 0                  | 0                          | 566               | 160      | 293                     | 267               |
| Boston C.                                     | 65,156               | 34,257             | 1,632                      | 12,870            | 522      | 15,071                  | 804               |
| Boston U.                                     | 652,096              | 402,443            | 501                        | 160,347           | 20,071   | 45,146                  | 23,588            |
| Brandeis U.                                   | 107,549              | 52,147             | 404                        | 34,998            | 1,418    | 9,045                   | 9,537             |
| Clark U.                                      | 7,931                | 2,754              | 74                         | 3,633             | 0        | 1,431                   | 39                |
| Franklin W. Olin C. of Engineering            | 1,627                | 636                | 0                          | 478               | 15       | 481                     | 17                |
| Harvard U.                                    | 1,254,008            | 616,589            | 5,137                      | 384,197           | 55,357   | 172,327                 | 20,401            |
| Massachusetts Institute of Technology         | 949,076              | 483,526            | 3,213                      | 116,258           | 177,759  | 92,386                  | 75,934            |
| MGH Institute of Health Professions           | 3,037                | 2,500              | 0                          | 30                | 0        | 507                     | 0                 |
| Mount Holyoke C.                              | 2,026                | 1,539              | 0                          | 200               | 0        | 287                     | 0                 |
| New England C. of Optometry                   | 1,978                | 1,623              | 26                         | 149               | 175      | 5                       | 0                 |
| Northeastern U.                               | 211,342              | 143,421            | 2,227                      | 44,964            | 9,547    | 10,718                  | 465               |
| Smith C.                                      | 4,085                | 2,433              | 16                         | 1,118             | 74       | 436                     | 8                 |
| Suffolk U.                                    | 2,043                | 634                | 0                          | 1,261             | 0        | 148                     | 0                 |
| Tufts U.                                      | 224,956              | 166,809            | 3,242                      | 15,442            | 8,655    | 26,955                  | 3,853             |
| Wellesley C.                                  | 6,252                | 3,469              | 204                        | NA                | 138      | 2,024                   | 417               |
| Williams C.                                   | 4,902 i              | 1,152 i            | 0 i                        | 1,625 i           | 0 i      | 134 i                   | 1,991 i           |

TABLE 70

**Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2021**

(Dollars in thousands)

| State, institutional control, and institution                 | All R&D expenditures | Source of funds    |                            |                   |          |                         |                   |
|---|----------------------|--------------------|----------------------------|-------------------|----------|-------------------------|-------------------|
|   |                      | Federal government | State and local government | Institution funds | Business | Nonprofit organizations | All other sources |
| Woods Hole Oceanographic Institution                          | 262,048              | 222,351            | 1,029                      | 16,006            | 2,804    | 9,792                   | 10,066            |
| Worcester Polytechnic Institute                               | 48,702               | 30,166             | 1,262                      | 9,301             | 3,296    | 2,533                   | 2,144             |
| Michigan  | 2,842,492            | 1,467,444          | 59,206                     | 1,038,947         | 119,391  | 118,335                 | 39,169            |
| Public  | 2,760,416            | 1,437,180          | 57,272                     | 1,002,275         | 118,458  | 112,860                 | 32,371            |
| Central Michigan U.   | 21,726               | 6,919              | 26                         | 13,477            | 109      | 952                     | 243               |
| Eastern Michigan U.   | 7,233                | 2,237              | 185                        | 4,618             | 71       | 119                     | 3                 |
| Grand Valley State U.   | 6,809                | 1,415              | 418                        | 3,398             | 0        | 1,023                   | 555               |
| Michigan State U.   | 710,178              | 349,889            | 41,609                     | 275,632           | 11,016   | 17,600                  | 14,432            |
| Michigan Technological U.                                     | 81,715               | 41,505             | 576                        | 30,768            | 7,078    | 422                     | 1,366             |
| Northern Michigan U.  | 1,364                | 366                | 8                          | 769               | 0        | 127                     | 94                |
| Oakland U.  | 20,261               | 7,426              | 1,694                      | 8,499             | 1,023    | 1,423                   | 196               |
| Saginaw Valley State U.                                       | 2,428                | 1,899              | 0                          | 394               | 5        | 114                     | 16                |
| U. Michigan, Ann Arbor  | 1,639,645            | 891,125            | 2,066                      | 581,768           | 91,117   | 63,650                  | 9,919             |
| U. Michigan, Dearborn   | 7,472                | 2,366              | 22                         | 2,794             | 1,911    | 271                     | 108               |
| U. Michigan, Flint  | 752                  | 113                | 0                          | 367               | 203      | 38                      | 31                |
| Wayne State U.  | 235,519              | 117,976            | 9,594                      | 72,758            | 4,228    | 26,574                  | 4,389             |
| Western Michigan U. and Homer Stryker M.D. School of Medicine | 25,314               | 13,944             | 1,074                      | 7,033             | 1,697    | 547                     | 1,019             |
| Private   | 82,076               | 30,264             | 1,934                      | 36,672            | 933      | 5,475                   | 6,798             |
| Albion C.   | 1,127                | 289                | 0                          | 838               | 0        | 0                       | 0                 |
| Andrews U.  | 802                  | 256                | 3                          | 441               | 0        | 102                     | 0                 |
| Calvin U.   | 1,490                | 942                | 27                         | 5                 | 83       | 158                     | 275               |
| Hope C.   | 5,211                | 1,992              | 493                        | 1,463             | 0        | 1,207                   | 56                |
| Kettering U.  | 1,315                | 353                | 7                          | 586               | 314      | 55                      | 0                 |
| Lawrence Technological U.                                     | 1,764                | 284                | 701                        | 2                 | 434      | 343                     | 0                 |
| U. Detroit Mercy  | 4,578                | 3,917              | 0                          | 649               | 12       | 0                       | 0                 |
| Van Andel Research Institute                                  | 65,789               | 22,231             | 703                        | 32,688            | 90       | 3,610                   | 6,467             |
| Minnesota   | 1,115,363            | 581,339            | 77,012                     | 330,010           | 46,934   | 47,310                  | 32,758            |
| Public  | 1,102,132            | 577,585            | 76,936                     | 323,618           | 45,244   | 46,406                  | 32,343            |
| Minnesota State U., Mankato                                   | 2,170                | 575                | 154                        | 1,147             | 0        | 184                     | 110               |
| St. Cloud State U.  | 2,379                | 577                | 429                        | 725               | 403      | 245                     | 0                 |
| U. Minnesota, Duluth  | 23,767               | 5,325              | 6,341                      | 11,624            | 381      | 77                      | 19                |
| U. Minnesota, Morris  | 855                  | 162                | 170                        | 502               | 0        | 21                      | 0                 |
| U. Minnesota, Twin Cities                                     | 1,072,961            | 570,946            | 69,842                     | 309,620           | 44,460   | 45,879                  | 32,214            |

TABLE 70

## Higher education R&amp;D expenditures, by state, institutional control, institution, and source of funds: FY 2021

(Dollars in thousands)

| State, institutional control, and institution   | All R&D expenditures | Source of funds    |                            |                   |          |                         |                   |
|---|----------------------|--------------------|----------------------------|-------------------|----------|-------------------------|-------------------|
|   |                      | Federal government | State and local government | Institution funds | Business | Nonprofit organizations | All other sources |
| Private   | 13,231               | 3,754              | 76                         | 6,392             | 1,690    | 904                     | 415               |
| C. of Saint Benedict                            | 1,064 i              | 46 i               | 0 i                        | 1,018 i           | 0 i      | 0 i                     | 0 i               |
| Carleton C.                                     | 3,800                | 1,499              | 6                          | 1,948             | 0        | 229                     | 118               |
| Macalester C.                                   | 1,280                | 617                | 4                          | 568               | 0        | 91                      | 0                 |
| Saint John's U.                                 | 1,125 i              | 0 i                | 0 i                        | 1,125 i           | 0 i      | 0 i                     | 0 i               |
| St. Olaf C.                                     | 816                  | 271                | 0                          | 520               | 0        | 25                      | 0                 |
| U. of St. Thomas (MN)                           | 5,146                | 1,321              | 66                         | 1,213             | 1,690    | 559                     | 297               |
| Mississippi                                     | 491,172              | 261,723            | 108,616                    | 100,139           | 7,300    | 11,316                  | 2,078             |
| Public  | 489,080              | 259,631            | 108,616                    | 100,139           | 7,300    | 11,316                  | 2,078             |
| Alcorn State U.                                 | 14,188               | 7,593              | 4,457                      | 2,103             | 6        | 29                      | 0                 |
| Jackson State U.                                | 16,157               | 14,038             | 0                          | 1,426             | 198      | 473                     | 22                |
| Mississippi State U.                            | 275,143              | 116,713            | 88,418                     | 58,242            | 3,257    | 6,994                   | 1,519             |
| U. Mississippi                                  | 116,175              | 76,886             | 4,165                      | 28,869            | 2,600    | 3,165                   | 490               |
| U. Southern Mississippi                         | 67,417               | 44,401             | 11,576                     | 9,499             | 1,239    | 655                     | 47                |
| Private   | 2,092                | 2,092              | 0                          | 0                 | 0        | 0                       | 0                 |
| Tougaloo C.                                     | 2,092 i              | 2,092 i            | 0 i                        | 0 i               | 0 i      | 0 i                     | 0 i               |
| Missouri  | 1,582,870            | 882,908            | 44,450                     | 407,646           | 128,426  | 106,630                 | 12,810            |
| Public  | 509,338              | 231,307            | 42,431                     | 193,083           | 19,174   | 13,004                  | 10,339            |
| Lincoln U., Jefferson City                      | 7,621                | 5,621              | 2,000                      | NA                | 0        | 0                       | 0                 |
| Missouri State U.                               | 10,014               | 8,931              | 196                        | 735               | 132      | 20                      | 0                 |
| Missouri U. of Science and Technology           | 54,437               | 26,164             | 172                        | 19,872            | 4,007    | 616                     | 3,606             |
| U. Missouri, Columbia                           | 388,779              | 163,576            | 39,936                     | 157,031           | 14,488   | 8,801                   | 4,947             |
| U. Missouri, Kansas City                        | 33,855               | 21,203             | 122                        | 9,896             | 451      | 763                     | 1,420             |
| U. Missouri, Saint Louis                        | 14,632               | 5,812              | 5                          | 5,549             | 96       | 2,804                   | 366               |
| Private   | 1,073,532            | 651,601            | 2,019                      | 214,563           | 109,252  | 93,626                  | 2,471             |
| Saint Louis U.                                  | 79,005               | 41,411             | 548                        | 24,824            | 3,614    | 8,537                   | 71                |
| U. of Health Sciences and Pharmacy in St. Louis | 5,313                | 4,063              | 0                          | 759               | 462      | 29                      | 0                 |
| Washington U., Saint Louis                      | 989,214              | 606,127            | 1,471                      | 188,980           | 105,176  | 85,060                  | 2,400             |
| Montana   | 330,081              | 190,076            | 24,303                     | 102,374           | 3,087    | 6,759                   | 3,482             |
| Public  | 330,081              | 190,076            | 24,303                     | 102,374           | 3,087    | 6,759                   | 3,482             |
| Montana State U., Bozeman                       | 193,577              | 113,257            | 17,738                     | 52,653            | 2,084    | 4,742                   | 3,103             |
| Montana Technological U.                        | 14,933               | 6,133              | 5,658                      | 2,739             | 402      | 0                       | 1                 |
| U. Montana, Missoula                            | 121,571              | 70,686             | 907                        | 46,982            | 601      | 2,017                   | 378               |

TABLE 70

**Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2021**

(Dollars in thousands)

| State, institutional control, and institution       | All R&D expenditures | Source of funds    |                            |                   |          |                         |                   |
|---|----------------------|--------------------|----------------------------|-------------------|----------|-------------------------|-------------------|
|   |                      | Federal government | State and local government | Institution funds | Business | Nonprofit organizations | All other sources |
| Nebraska  | 575,986              | 262,730            | 74,774                     | 161,841           | 30,895   | 21,495                  | 24,251            |
| Public  | 551,559              | 253,111            | 70,427                     | 154,599           | 29,417   | 20,938                  | 23,067            |
| U. Nebraska, central administration                 | 21,295               | 20,675             | 250                        | 0                 | 50       | 250                     | 70                |
| U. Nebraska, Kearney                                | 3,201                | 1,327              | 746                        | 1,081             | 37       | 10                      | 0                 |
| U. Nebraska, Lincoln                                | 307,083              | 106,564            | 55,626                     | 111,550           | 19,843   | 6,145                   | 7,355             |
| U. Nebraska, Medical Center                         | 200,974              | 111,042            | 11,950                     | 38,843            | 9,286    | 14,356                  | 15,497            |
| U. Nebraska, Omaha                                  | 19,006               | 13,503             | 1,855                      | 3,125             | 201      | 177                     | 145               |
| Private   | 24,427               | 9,619              | 4,347                      | 7,242             | 1,478    | 557                     | 1,184             |
| Creighton U.  | 23,251               | 8,585              | 4,347                      | 7,115             | 1,478    | 542                     | 1,184             |
| Doane U.  | 1,176                | 1,034              | 0                          | 127               | 0        | 15                      | 0                 |
| Nevada  | 308,745              | 121,118            | 10,281                     | 151,928           | 4,410    | 6,275                   | 14,733            |
| Public  | 302,760              | 121,065            | 10,281                     | 146,153           | 4,345    | 6,274                   | 14,642            |
| Desert Research Institute                           | 26,365               | 16,641             | 378                        | 3,572             | 521      | 4,109                   | 1,144             |
| U. Nevada, Las Vegas                                | 101,009              | 27,178             | 2,902                      | 67,657            | 905      | 467                     | 1,900             |
| U. Nevada, Reno                                     | 175,386              | 77,246             | 7,001                      | 74,924            | 2,919    | 1,698                   | 11,598            |
| Private   | 5,985                | 53                 | 0                          | 5,775             | 65       | 1                       | 91                |
| Roseman U. of Health Sciences                       | 5,985                | 53                 | 0                          | 5,775             | 65       | 1                       | 91                |
| New Hampshire                                       | 498,518              | 252,552            | 8,993                      | 191,319           | 12,593   | 23,171                  | 9,890             |
| Public  | 168,292              | 100,217            | 7,547                      | 47,311            | 7,870    | 3,511                   | 1,836             |
| Keene State C.                                      | 919                  | 894                | 0                          | 25                | 0        | 0                       | 0                 |
| U. New Hampshire                                    | 167,373              | 99,323             | 7,547                      | 47,286            | 7,870    | 3,511                   | 1,836             |
| Private   | 330,226              | 152,335            | 1,446                      | 144,008           | 4,723    | 19,660                  | 8,054             |
| Dartmouth C. and Dartmouth Hitchcock Medical Center | 330,226              | 152,335            | 1,446                      | 144,008           | 4,723    | 19,660                  | 8,054             |
| New Jersey  | 1,352,770            | 701,933            | 108,029                    | 295,109           | 64,849   | 120,093                 | 62,757            |
| Public  | 897,949              | 460,624            | 103,351                    | 202,138           | 43,126   | 60,736                  | 27,974            |
| C. New Jersey                                       | 1,912                | 1,079              | 56                         | 327               | 57       | 393                     | 0                 |
| Kean U.   | 3,538                | 362                | 318                        | 2,783             | 70       | 5                       | 0                 |
| Montclair State U.                                  | 17,390               | 4,146              | 543                        | 10,479            | 41       | 2,163                   | 18                |
| New Jersey Institute of Technology                  | 166,587              | 77,057             | 13,030                     | 60,952            | 1,278    | 6,242                   | 8,028             |
| Rowan U.  | 26,458               | 17,400             | 4,442                      | 2,700             | 677      | 1,239                   | 0                 |
| Rutgers, State U. New Jersey, Camden                | 5,142                | 2,905              | 16                         | 1,423             | 123      | 612                     | 63                |
| Rutgers, State U. New Jersey, New Brunswick         | 643,955              | 339,015            | 84,201                     | 111,501           | 40,861   | 49,049                  | 19,328            |
| Rutgers, State U. New Jersey, Newark                | 23,854               | 16,281             | 573                        | 5,723             | 8        | 879                     | 390               |

TABLE 70

**Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2021**

(Dollars in thousands)

| State, institutional control, and institution            | All R&D expenditures | Source of funds    |                            |                   |          |                         |                   |
|--|----------------------|--------------------|----------------------------|-------------------|----------|-------------------------|-------------------|
|  |                      | Federal government | State and local government | Institution funds | Business | Nonprofit organizations | All other sources |
| Stockton U.  | 1,246                | 486                | 147                        | 572               | 0        | 41                      | 0                 |
| William Paterson U.                                      | 7,867                | 1,893              | 25                         | 5,678             | 11       | 113                     | 147               |
| Private  | 454,821              | 241,309            | 4,678                      | 92,971            | 21,723   | 59,357                  | 34,783            |
| Monmouth U.  | 1,667                | 174                | 778                        | 75                | 25       | 601                     | 14                |
| Princeton U.   | 404,448              | 205,000            | 281                        | 86,675            | 20,200   | 57,700                  | 34,592            |
| Seton Hall U.  | 5,320                | 2,137              | 1,977                      | 730               | 95       | 381                     | 0                 |
| Stevens Institute of Technology                          | 43,386               | 33,998             | 1,642                      | 5,491             | 1,403    | 675                     | 177               |
| New Mexico   | 473,020              | 332,896            | 31,084                     | 77,661            | 8,051    | 16,305                  | 7,023             |
| Public   | 473,020              | 332,896            | 31,084                     | 77,661            | 8,051    | 16,305                  | 7,023             |
| New Mexico Highlands U.                                  | 1,129                | 1,085              | 0                          | 0                 | 0        | 44                      | 0                 |
| New Mexico Institute of Mining and Technology            | 28,745               | 24,900             | 631                        | 1,654             | 1,236    | 191                     | 133               |
| New Mexico State U.                                      | 110,580              | 64,699             | 22,094                     | 13,581            | 2,562    | 1,982                   | 5,662             |
| U. New Mexico  | 332,566              | 242,212            | 8,359                      | 62,426            | 4,253    | 14,088                  | 1,228             |
| New York   | 7,577,235            | 4,065,091          | 425,225                    | 1,744,191         | 498,361  | 541,516                 | 302,851           |
| Public   | 1,716,336            | 672,259            | 286,009                    | 491,261           | 189,382  | 52,006                  | 25,419            |
| CUNY, Advanced Science Research Center                   | 15,403               | 11,840             | 357                        | 1,943             | 251      | 702                     | 310               |
| CUNY, Baruch C.  | 2,521                | 1,691              | 0                          | 531               | 0        | 204                     | 95                |
| CUNY, Brooklyn C.  | 6,318                | 4,505              | 64                         | 1,242             | 105      | 339                     | 63                |
| CUNY, C. Staten Island                                   | 2,860                | 2,234              | 165                        | 277               | 0        | 76                      | 108               |
| CUNY, City C.  | 57,361               | 34,218             | 9,824                      | 11,311            | 691      | 1,045                   | 272               |
| CUNY, Graduate Center                                    | 4,265                | 2,496              | 128                        | 87                | 0        | 980                     | 574               |
| CUNY, Graduate School of Public Health and Health Policy | 15,035               | 12,254             | 76                         | 1,206             | 0        | 1,343                   | 156               |
| CUNY, Hunter C.  | 33,816               | 23,166             | 2,359                      | 7,156             | 85       | 471                     | 579               |
| CUNY, John Jay C. of Criminal Justice                    | 11,791               | 3,519              | 3,037                      | 2,521             | 37       | 2,597                   | 80                |
| CUNY, Lehman C.  | 4,181                | 3,382              | 0                          | 419               | 171      | 102                     | 107               |
| CUNY, New York City C. of Technology                     | 1,367                | 1,197              | 0                          | 129               | 31       | 0                       | 10                |
| CUNY, Queens C.  | 16,063               | 12,386             | 1,241                      | 1,776             | 149      | 425                     | 86                |
| CUNY, system office                                      | 1,664                | 768                | 363                        | 105               | 68       | 360                     | 0                 |
| CUNY, York C.  | 1,133                | 922                | 0                          | 168               | 0        | 43                      | 0                 |
| SUNY, Binghamton U.                                      | 124,565              | 23,225             | 6,737                      | 89,466            | 3,399    | 962                     | 776               |
| SUNY, Buffalo State                                      | 1,962                | 977                | 682                        | 210               | 24       | 64                      | 5                 |
| SUNY, C. Brockport                                       | 1,114                | 500                | 211                        | 268               | 32       | 74                      | 29                |
| SUNY, C. of Environmental Science and Forestry           | 28,440               | 6,979              | 12,203                     | 7,152             | 580      | 752                     | 774               |

TABLE 70

**Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2021**

(Dollars in thousands)

| State, institutional control, and institution  | All R&D expenditures | Source of funds    |                            |                   |          |                         |                   |
|--|----------------------|--------------------|----------------------------|-------------------|----------|-------------------------|-------------------|
|  |                      | Federal government | State and local government | Institution funds | Business | Nonprofit organizations | All other sources |
| SUNY, C. of Optometry  | 3,460                | 2,105              | 0                          | 437               | 907      | 10                      | 1                 |
| SUNY, C. Plattsburgh   | 1,280                | 824                | 61                         | 358               | 0        | 32                      | 5                 |
| SUNY, Downstate Health Sciences U.   | 34,459               | 27,620             | 23                         | 5,397             | 354      | 950                     | 115               |
| SUNY, Geneseo  | 2,070                | 1,273              | 10                         | 780               | 0        | 7                       | 0                 |
| SUNY, Oswego   | 1,003                | 415                | 81                         | 439               | 42       | 14                      | 12                |
| SUNY, Polytechnic Institute  | 465,273              | 25,427             | 206,962                    | 77,753            | 150,915  | 456                     | 3,760             |
| SUNY, Stony Brook U.   | 274,516              | 162,972            | 10,323                     | 84,647            | 5,135    | 9,416                   | 2,023             |
| SUNY, U. Albany  | 114,501              | 56,425             | 1,749                      | 49,949            | 573      | 2,735                   | 3,070             |
| SUNY, U. Buffalo   | 425,349              | 210,257            | 27,020                     | 132,361           | 21,474   | 24,932                  | 9,305             |
| SUNY, Upstate Medical U.   | 44,870               | 24,974             | 2,333                      | 9,193             | 4,314    | 2,647                   | 1,409             |
| U.S. Military Academy  | 19,696               | 13,708             | 0                          | 3,980             | 45       | 268                     | 1,695             |
| Private  | 5,860,899            | 3,392,832          | 139,216                    | 1,252,930         | 308,979  | 489,510                 | 277,432           |
| Albany C. of Pharmacy and Health Sciences  | 3,687                | 1,900              | 0                          | 963               | 715      | 109                     | 0                 |
| Albany Medical C.  | 22,443               | 13,166             | 0                          | 3,324             | 3,788    | 709                     | 1,456             |
| Albert Einstein C. of Medicine   | 301,715              | 214,619            | 1,764                      | 67,563            | 4,184    | 13,585                  | 0                 |
| Alfred U.  | 2,660                | 939                | 1,040                      | 449               | 149      | 83                      | 0                 |
| Barnard C.   | 4,632                | 3,527              | 0                          | 718               | 22       | 365                     | 0                 |
| Canisius C.  | 1,036                | 597                | 0                          | 0                 | 0        | 439                     | 0                 |
| Clarkson U.  | 16,765               | 7,246              | 1,426                      | 5,725             | 1,147    | 871                     | 350               |
| Cold Spring Harbor Laboratory  | 114,903              | 56,907             | 21                         | 35,757            | 3,333    | 18,885                  | 0                 |
| Colgate U.   | 3,306                | 1,440              | 0                          | 1,515             | 75       | 261                     | 15                |
| Columbia U. in the City of New York  | 1,098,570            | 831,648            | 7,173                      | 79,363            | 71,239   | 106,884                 | 2,263             |
| Cornell U.   | 1,183,524            | 592,359            | 87,821                     | 220,800           | 43,950   | 115,910                 | 122,684           |
| Fordham U.   | 16,731               | 4,076              | 25                         | 10,871            | 83       | 1,011                   | 665               |
| Hamilton C.  | 1,747                | 286                | 0                          | 827               | 0        | 374                     | 260               |
| Hobart and William Smith Colleges  | 1,941                | 758                | 662                        | 391               | 0        | 73                      | 57                |
| Hofstra U.   | 5,545                | 1,266              | 92                         | 4,023             | 0        | 162                     | 2                 |
| Icahn School of Medicine at Mount Sinai  | 820,260              | 554,582            | 5,500                      | 137,874           | 59,235   | 48,289                  | 14,780            |
| Ithaca C.  | 1,030                | 685                | 51                         | 224               | 5        | 35                      | 30                |
| Long Island U.   | 15,059               | 2,686              | 0                          | 12,040            | 36       | 271                     | 26                |
| Manhattan C.   | 1,864                | 397                | 505                        | 406               | 556      | 0                       | 0                 |
| Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences | 3,776                | 376                | 0                          | 3,337             | 0        | 26                      | 37                |

TABLE 70

**Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2021**

(Dollars in thousands)

| State, institutional control, and institution      | All R&D expenditures | Source of funds    |                            |                   |          |                         |                   |
|--|----------------------|--------------------|----------------------------|-------------------|----------|-------------------------|-------------------|
|  |                      | Federal government | State and local government | Institution funds | Business | Nonprofit organizations | All other sources |
| New School   | 14,281               | 1,324              | 86                         | 2,762             | 30       | 7,709                   | 2,370             |
| New York Institute of Technology                   | 4,465                | 1,988              | 142                        | 2,069             | 0        | 266                     | 0                 |
| New York Medical C.                                | 18,872               | 10,739             | 1,098                      | 794               | 4,002    | 1,503                   | 736               |
| New York U.  | 1,063,704            | 547,027            | 13,191                     | 243,805           | 51,800   | 90,401                  | 117,480           |
| Niagara U.   | 509                  | 34                 | 78                         | 194               | 0        | 203                     | 0                 |
| Pace U.  | 3,649                | 2,536              | 0                          | 819               | 1        | 293                     | 0                 |
| Pratt Institute                                    | 2,547                | 294                | 835                        | 38                | 0        | 1,380                   | 0                 |
| Rensselaer Polytechnic Institute                   | 119,056              | 52,465             | 3,714                      | 40,932            | 16,432   | 1,917                   | 3,596             |
| Rochester Institute of Technology                  | 56,043               | 31,187             | 5,213                      | 15,139            | 2,563    | 558                     | 1,383             |
| Rockefeller U.                                     | 357,543              | 96,318             | 656                        | 218,134           | 3,210    | 38,301                  | 924               |
| Skidmore C.  | 2,335                | 1,739              | 0                          | 245               | 0        | 351                     | 0                 |
| St. John's U., New York                            | 2,940                | 1,950              | 0                          | 254               | 200      | 393                     | 143               |
| Syracuse U.  | 151,717              | 34,200             | 4,328                      | 96,162            | 6,481    | 10,501                  | 45                |
| Teachers C., Columbia U.                           | 24,335               | 8,521              | 700                        | NA                | 1,700    | 10,914                  | 2,500             |
| U. Rochester                                       | 409,255              | 309,647            | 3,074                      | 41,775            | 34,036   | 15,949                  | 4,774             |
| Union C., Schenectady                              | 1,396                | 976                | 0                          | 340               | 7        | 64                      | 9                 |
| Vassar C.  | 1,606                | 918                | 21                         | 455               | 0        | 209                     | 3                 |
| Yeshiva U.   | 5,452                | 1,509              | 0                          | 2,843             | 0        | 256                     | 844               |
| North Carolina                                     | 3,503,943            | 2,088,400          | 175,440                    | 674,614           | 310,840  | 208,306                 | 46,343            |
| Public   | 1,995,082            | 1,119,227          | 161,938                    | 495,188           | 107,499  | 92,762                  | 18,468            |
| Appalachian State U.                               | 4,509                | 1,694              | 229                        | 2,106             | 365      | 115                     | 0                 |
| East Carolina U.                                   | 51,662               | 22,813             | 787                        | 21,450            | 4,387    | 1,858                   | 367               |
| Elizabeth City State U.                            | 1,717                | 1,603              | 52                         | NA                | 62       | 0                       | 0                 |
| Fayetteville State U.                              | 3,933                | 1,988              | 519                        | 1,238             | 128      | 60                      | 0                 |
| North Carolina Agricultural and Technical State U. | 40,751               | 25,755             | 542                        | 14,005            | 149      | 257                     | 43                |
| North Carolina Central U.                          | 14,105               | 10,676             | 976                        | NA                | 503      | 844                     | 1,106             |
| North Carolina State U.                            | 547,118              | 239,115            | 127,290                    | 126,142           | 49,478   | 4,806                   | 287               |
| U. North Carolina, Asheville                       | 4,844                | 2,322              | 346                        | 440               | 30       | 1,706                   | 0                 |
| U. North Carolina, Chapel Hill                     | 1,205,883            | 747,895            | 9,550                      | 304,506           | 48,938   | 79,885                  | 15,109            |
| U. North Carolina, Charlotte                       | 51,877               | 27,145             | 9,921                      | 11,654            | 2,349    | 753                     | 55                |
| U. North Carolina, general administration          | 4,024                | 408                | 3,616                      | 0                 | 0        | 0                       | 0                 |
| U. North Carolina, Greensboro                      | 37,033               | 24,423             | 363                        | 10,842            | 106      | 401                     | 898               |
| U. North Carolina, Wilmington                      | 16,656               | 6,852              | 5,748                      | 2,150             | 867      | 951                     | 88                |



TABLE 70

## Higher education R&amp;D expenditures, by state, institutional control, institution, and source of funds: FY 2021

(Dollars in thousands)

| State, institutional control, and institution | All R&D expenditures | Source of funds    |                            |                   |          |                         |                   |
|---|----------------------|--------------------|----------------------------|-------------------|----------|-------------------------|-------------------|
|   |                      | Federal government | State and local government | Institution funds | Business | Nonprofit organizations | All other sources |
| Western Carolina U.                           | 2,847                | 1,697              | 309                        | 655               | 137      | 49                      | 0                 |
| Winston-Salem State U.                        | 8,123                | 4,841              | 1,690                      | NA                | 0        | 1,077                   | 515               |
| Private                                       | 1,508,861            | 969,173            | 13,502                     | 179,426           | 203,341  | 115,544                 | 27,875            |
| Davidson C.                                   | 2,466                | 1,151              | 7                          | 771               | 24       | 421                     | 92                |
| Duke U.                                       | 1,237,686            | 776,632            | 1,073                      | 153,692           | 187,864  | 98,223                  | 20,202            |
| Elon U.                                       | 2,032                | 138                | 0                          | 1,883             | 0        | 11                      | 0                 |
| Johnson C. Smith U.                           | 2,461                | 2,365              | 52                         | 0                 | 4        | 40                      | 0                 |
| Wake Forest U.                                | 264,216              | 188,887            | 12,370                     | 23,080            | 15,449   | 16,849                  | 7,581             |
| North Dakota                                  | 307,556              | 101,287            | 78,537                     | 110,245           | 9,702    | 1,276                   | 6,509             |
| Public  | 307,556              | 101,287            | 78,537                     | 110,245           | 9,702    | 1,276                   | 6,509             |
| North Dakota State U.                         | 164,050              | 42,824             | 43,787                     | 69,112            | 1,508    | 536                     | 6,283             |
| U. North Dakota                               | 143,506              | 58,463             | 34,750                     | 41,133            | 8,194    | 740                     | 226               |
| Ohio  | 2,787,835            | 1,594,939          | 70,829                     | 765,814           | 192,581  | 121,836                 | 41,836            |
| Public  | 2,171,167            | 1,071,943          | 64,755                     | 711,854           | 182,202  | 101,644                 | 38,769            |
| Air Force Institute of Technology             | 45,703               | 27,025             | 0                          | 18,015            | 663      | 0                       | 0                 |
| Bowling Green State U.                        | 18,619               | 7,263              | 1,333                      | 9,178             | 84       | 754                     | 7                 |
| Central State U.                              | 8,751                | 4,165              | 2,866                      | 1,720             | 0        | 0                       | 0                 |
| Cleveland State U.                            | 71,451               | 47,402             | 1,458                      | 16,391            | 1,755    | 4,303                   | 142               |
| Kent State U.                                 | 50,408               | 15,179             | 1,379                      | 31,409            | 573      | 1,700                   | 168               |
| Miami U.                                      | 25,138               | 9,412              | 1,610                      | 12,023            | 1,249    | 508                     | 336               |
| Northeast Ohio Medical U.                     | 13,853               | 9,999              | 14                         | 3,182             | 0        | 658                     | 0                 |
| Ohio State U.                                 | 1,236,111            | 559,797            | 45,862                     | 425,597           | 129,914  | 50,022                  | 24,919            |
| Ohio U.                                       | 49,764               | 19,164             | 883                        | 24,765            | 3,433    | 1,040                   | 479               |
| U. Akron                                      | 17,340               | 9,024              | 442                        | 4,217             | 2,093    | 653                     | 911               |
| U. Cincinnati                                 | 551,826              | 309,097            | 7,234                      | 145,772           | 39,228   | 38,816                  | 11,679            |
| U. Toledo                                     | 53,169               | 32,601             | 884                        | 14,308            | 2,718    | 2,592                   | 66                |
| Wright State U.                               | 26,259               | 19,617             | 584                        | 4,999             | 415      | 582                     | 62                |
| Youngstown State U.                           | 2,775                | 2,198              | 206                        | 278               | 77       | 16                      | 0                 |
| Private                                       | 616,668              | 522,996            | 6,074                      | 53,960            | 10,379   | 20,192                  | 3,067             |
| C. Wooster                                    | 1,071                | 300                | 0                          | 683               | 0        | 88                      | 0                 |
| Case Western Reserve U.                       | 421,868              | 340,438            | 4,557                      | 50,526            | 4,035    | 19,766                  | 2,546             |
| Heidelberg U.                                 | 1,725                | 308                | 1,092                      | 303               | 0        | 22                      | 0                 |
| Oberlin C.                                    | 776                  | 505                | 0                          | 160               | 67       | 44                      | 0                 |

TABLE 70

## Higher education R&amp;D expenditures, by state, institutional control, institution, and source of funds: FY 2021

(Dollars in thousands)

| State, institutional control, and institution                     | All R&D expenditures | Source of funds    |                            |                   |          |                         |                   |
|---|----------------------|--------------------|----------------------------|-------------------|----------|-------------------------|-------------------|
|   |                      | Federal government | State and local government | Institution funds | Business | Nonprofit organizations | All other sources |
| U. Dayton   | 191,228              | 181,445            | 425                        | 2,288             | 6,277    | 272                     | 521               |
| Oklahoma  | 622,581              | 255,119            | 61,088                     | 252,029           | 37,287   | 12,875                  | 4,183             |
| Public  | 606,132              | 249,243            | 60,727                     | 249,575           | 29,890   | 12,555                  | 4,142             |
| Langston U.   | 6,345                | 3,089              | 2                          | 2,645             | 609      | 0                       | 0                 |
| Oklahoma State U., Center for Health Sciences                     | 7,758                | 2,304              | 127                        | 5,241             | 56       | 30                      | 0                 |
| Oklahoma State U., Stillwater                                     | 198,799              | 47,428             | 21,258                     | 117,732           | 9,786    | 2,322                   | 273               |
| U. Central Oklahoma   | 5,997 i              | 1,516 i            | 644 i                      | 3,761 i           | 73 i     | 3 i                     | 0 i               |
| U. Oklahoma, Norman and Health Science Center                     | 380,048              | 193,639            | 38,203                     | 116,014           | 19,294   | 9,504                   | 3,394             |
| U. Oklahoma, Tulsa  | 7,185                | 1,267              | 493                        | 4,182             | 72       | 696                     | 475               |
| Private   | 16,449               | 5,876              | 361                        | 2,454             | 7,397    | 320                     | 41                |
| U. Tulsa  | 16,449               | 5,876              | 361                        | 2,454             | 7,397    | 320                     | 41                |
| Oregon  | 929,355              | 626,641            | 57,459                     | 129,056           | 50,292   | 48,919                  | 16,988            |
| Public  | 914,585              | 620,532            | 57,125                     | 122,519           | 50,060   | 47,472                  | 16,877            |
| Oregon Health and Science U.                                      | 452,812              | 329,016            | 1,007                      | 44,030            | 40,991   | 37,168                  | 600               |
| Oregon Institute of Technology                                    | 4,314                | 252                | 3,792                      | NA                | 94       | 176                     | 0                 |
| Oregon State U.   | 276,955              | 179,180            | 47,981                     | 25,573            | 6,517    | 2,956                   | 14,748            |
| Portland State U.   | 41,311               | 29,842             | 3,576                      | 4,722             | 847      | 1,724                   | 600               |
| U. Oregon   | 139,193              | 82,242             | 769                        | 48,194            | 1,611    | 5,448                   | 929               |
| Private   | 14,770               | 6,109              | 334                        | 6,537             | 232      | 1,447                   | 111               |
| Lewis and Clark C.  | 2,281                | 702                | 0                          | 1,319             | 0        | 260                     | 0                 |
| National U. of Natural Medicine                                   | 850                  | 523                | 0                          | 195               | 132      | 0                       | 0                 |
| Pacific U.  | 4,690                | 2,072              | 269                        | 1,480             | 100      | 769                     | 0                 |
| Reed C.   | 5,132 i              | 1,916 i            | 32 i                       | 2,782 i           | 0 i      | 291 i                   | 111 i             |
| Willamette U.   | 1,817                | 896                | 33                         | 761               | 0        | 127                     | 0                 |
| Pennsylvania  | 4,934,724            | 2,794,237          | 104,849                    | 1,327,092         | 341,497  | 260,399                 | 106,650           |
| Public  | 2,429,460            | 1,511,516          | 66,518                     | 570,782           | 90,306   | 111,786                 | 78,552            |
| Indiana U. Pennsylvania   | 6,180                | 1,503              | 331                        | 3,718             | 7        | 607                     | 14                |
| Pennsylvania State U., Behrend                                    | 5,509                | 2,286              | 428                        | 1,157             | 494      | 1,142                   | 2                 |
| Pennsylvania State U., Harrisburg                                 | 2,938                | 1,616              | 340                        | 525               | 191      | 211                     | 55                |
| Pennsylvania State U., University Park and Hershey Medical Center | 970,544              | 622,532            | 46,993                     | 216,134           | 33,787   | 26,230                  | 24,868            |
| Temple U.   | 299,778              | 153,316            | 8,876                      | 90,467            | 22,560   | 18,260                  | 6,299             |
| U. Pittsburgh, Pittsburgh   | 1,135,416            | 724,993            | 9,484                      | 255,241           | 33,240   | 65,217                  | 47,241            |
| U.S. Army War C.  | 4,662 i              | 4,662 i            | 0 i                        | 0 i               | 0 i      | 0 i                     | 0 i               |

TABLE 70

## Higher education R&amp;D expenditures, by state, institutional control, institution, and source of funds: FY 2021

(Dollars in thousands)

| State, institutional control, and institution | All R&D expenditures | Source of funds    |                            |                   |          |                         |                   |
|---|----------------------|--------------------|----------------------------|-------------------|----------|-------------------------|-------------------|
|   |                      | Federal government | State and local government | Institution funds | Business | Nonprofit organizations | All other sources |
| West Chester U. Pennsylvania                  | 4,433                | 608                | 66                         | 3,540             | 27       | 119                     | 73                |
| Private                                       | 2,505,264            | 1,282,721          | 38,331                     | 756,310           | 251,191  | 148,613                 | 28,098            |
| Arcadia U.                                    | 889                  | 371                | 289                        | 0                 | 0        | 229                     | 0                 |
| Bryn Mawr C.                                  | 8,987                | 1,429              | 0                          | 7,285             | 18       | 255                     | 0                 |
| Bucknell U.                                   | 4,476                | 1,696              | 0                          | 1,439             | 311      | 203                     | 827               |
| Carnegie Mellon U.                            | 402,376              | 234,993            | 3,675                      | 114,892           | 34,473   | 10,503                  | 3,840             |
| Drexel U.                                     | 152,752              | 93,517             | 4,601                      | 36,063            | 3,196    | 8,682                   | 6,693             |
| Duquesne U.                                   | 10,521               | 5,020              | 1,138                      | 2,788             | 146      | 1,429                   | 0                 |
| Franklin and Marshall C.                      | 3,722                | 1,363              | 209                        | 1,622             | 279      | 61                      | 188               |
| Haverford C.                                  | 3,835                | 2,455              | 0                          | 631               | 0        | 308                     | 441               |
| Lafayette C.                                  | 1,015                | 508                | 4                          | 417               | 0        | 75                      | 11                |
| Lehigh U.                                     | 41,279               | 29,051             | 2,243                      | 8,806             | 531      | 613                     | 35                |
| Mercyhurst U.                                 | 1,937                | 745                | 584                        | 608               | 0        | 0                       | 0                 |
| Philadelphia C. of Osteopathic Medicine       | 6,186                | 318                | 55                         | 2,837             | 1,220    | 1,756                   | 0                 |
| Saint Joseph's U.                             | 2,922                | 1,158              | 673                        | 872               | 134      | 85                      | 0                 |
| Swarthmore C.                                 | 3,296                | 1,414              | 0                          | 1,571             | 1        | 310                     | 0                 |
| Thomas Jefferson U.                           | 200,393              | 109,448            | 2,542                      | 47,728            | 18,591   | 10,704                  | 11,380            |
| U. of the Sciences Philadelphia               | 4,005                | 1,320              | 213                        | 1,170             | 1,155    | 147                     | 0                 |
| U. Pennsylvania                               | 1,631,950            | 792,089            | 20,733                     | 511,958           | 190,755  | 111,885                 | 4,530             |
| Villanova U.                                  | 24,723               | 5,826              | 1,372                      | 15,623            | 381      | 1,368                   | 153               |
| Rhode Island                                  | 425,750              | 289,959            | 13,494                     | 88,443            | 7,211    | 22,147                  | 4,496             |
| Public  | 145,828              | 89,359             | 13,391                     | 37,316            | 2,060    | 2,473                   | 1,229             |
| Naval War C.                                  | 5,542                | 5,542              | 0                          | 0                 | 0        | 0                       | 0                 |
| Rhode Island C.                               | 10,990               | 4,894              | 5,593                      | 64                | 0        | 439                     | 0                 |
| U. Rhode Island                               | 129,296              | 78,923             | 7,798                      | 37,252            | 2,060    | 2,034                   | 1,229             |
| Private                                       | 279,922              | 200,600            | 103                        | 51,127            | 5,151    | 19,674                  | 3,267             |
| Brown U.                                      | 276,331              | 198,574            | 28                         | 50,127            | 4,925    | 19,410                  | 3,267             |
| Providence C.                                 | 766                  | 574                | 0                          | 124               | 0        | 68                      | 0                 |
| Rhode Island School of Design                 | 971                  | 250                | 41                         | 416               | 215      | 49                      | 0                 |
| Roger Williams U.                             | 1,854                | 1,202              | 34                         | 460               | 11       | 147                     | 0                 |
| South Carolina                                | 753,287              | 365,603            | 37,853                     | 271,701           | 41,814   | 24,457                  | 11,859            |
| Public  | 749,841              | 363,570            | 37,851                     | 270,442           | 41,799   | 24,370                  | 11,809            |
| C. Charleston                                 | 6,361                | 4,126              | 304                        | 1,458             | 0        | 377                     | 96                |

TABLE 70

**Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2021**

(Dollars in thousands)

| State, institutional control, and institution | All R&D expenditures | Source of funds    |                            |                   |          |                         |                   |
|---|----------------------|--------------------|----------------------------|-------------------|----------|-------------------------|-------------------|
|   |                      | Federal government | State and local government | Institution funds | Business | Nonprofit organizations | All other sources |
| Citadel Military C. South Carolina            | 2,054                | 1,714              | 53                         | 174               | 80       | 27                      | 6                 |
| Clemson U.                                    | 237,485              | 89,883             | 25,748                     | 98,955            | 16,178   | 6,562                   | 159               |
| Coastal Carolina U.                           | 2,245                | 948                | 864                        | 391               | 0        | 42                      | 0                 |
| Medical U. South Carolina                     | 277,761              | 162,394            | 4,423                      | 72,286            | 22,129   | 8,899                   | 7,630             |
| South Carolina State U.                       | 3,933 i              | 3,933 i            | NA                         | NA                | NA       | NA                      | NA                |
| U. South Carolina, Aiken                      | 2,042                | 1,884              | 0                          | 154               | 0        | 4                       | 0                 |
| U. South Carolina, Columbia                   | 215,374              | 97,193             | 6,108                      | 96,392            | 3,409    | 8,354                   | 3,918             |
| Winthrop U.                                   | 2,586                | 1,495              | 351                        | 632               | 3        | 105                     | 0                 |
| Private                                       | 3,446                | 2,033              | 2                          | 1,259             | 15       | 87                      | 50                |
| Clafin U.                                     | 1,015                | 1,005              | 0                          | 0                 | 0        | 10                      | 0                 |
| Furman U.                                     | 2,431                | 1,028              | 2                          | 1,259             | 15       | 77                      | 50                |
| South Dakota                                  | 100,534              | 46,598             | 19,124                     | 19,958            | 2,074    | 3,368                   | 9,412             |
| Public  | 99,521               | 45,585             | 19,124                     | 19,958            | 2,074    | 3,368                   | 9,412             |
| Black Hills State U.                          | 1,280                | 1,124              | 76                         | 80                | 0        | 0                       | 0                 |
| Dakota State U.                               | 3,416                | 2,603              | 218                        | 376               | 201      | 0                       | 18                |
| South Dakota School of Mines and Technology   | 15,746               | 11,587             | 1,345                      | 1,944             | 569      | 76                      | 225               |
| South Dakota State U.                         | 51,542               | 18,607             | 15,713                     | 3,929             | 1,304    | 2,820                   | 9,169             |
| U. South Dakota                               | 27,537               | 11,664             | 1,772                      | 13,629            | 0        | 472                     | 0                 |
| Private                                       | 1,013                | 1,013              | 0                          | 0                 | 0        | 0                       | 0                 |
| Augustana U.                                  | 1,013                | 1,013              | 0                          | 0                 | 0        | 0                       | 0                 |
| Tennessee                                     | 1,629,860            | 863,242            | 35,425                     | 567,114           | 93,741   | 55,972                  | 14,366            |
| Public  | 590,106              | 258,416            | 32,504                     | 252,739           | 12,358   | 22,523                  | 11,566            |
| Austin Peay State U.                          | 2,740                | 597                | 1,263                      | 859               | 0        | 12                      | 9                 |
| East Tennessee State U.                       | 18,449               | 8,358              | 20                         | 4,902             | 134      | 4,785                   | 250               |
| Middle Tennessee State U.                     | 22,531               | 4,150              | 480                        | 16,884            | 259      | 758                     | 0                 |
| Tennessee State U.                            | 26,880 i             | 20,378 i           | 455 i                      | 5,986 i           | 43 i     | 18 i                    | 0 i               |
| Tennessee Technological U.                    | 15,387               | 7,625              | 4,363                      | 3,008             | 111      | 76                      | 204               |
| U. Memphis                                    | 67,092               | 21,578             | 7,208                      | 34,139            | 814      | 3,142                   | 211               |
| U. Tennessee, Chattanooga                     | 11,192               | 4,507              | 705                        | 5,296             | 65       | 223                     | 396               |
| U. Tennessee, Health Science Center           | 109,562              | 56,021             | 5,433                      | 30,132            | 3,708    | 7,514                   | 6,754             |
| U. Tennessee, Knoxville                       | 316,273              | 135,202            | 12,577                     | 151,533           | 7,224    | 5,995                   | 3,742             |
| Private                                       | 1,039,754            | 604,826            | 2,921                      | 314,375           | 81,383   | 33,449                  | 2,800             |
| Fisk U.                                       | 4,320                | 3,940              | 24                         | 0                 | 0        | 356                     | 0                 |

TABLE 70

**Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2021**

(Dollars in thousands)

| State, institutional control, and institution           | All R&D expenditures | Source of funds    |                            |                   |          |                         |                   |
|---|----------------------|--------------------|----------------------------|-------------------|----------|-------------------------|-------------------|
|   |                      | Federal government | State and local government | Institution funds | Business | Nonprofit organizations | All other sources |
| Lipscomb U.   | 321                  | 222                | 0                          | 0                 | 22       | 77                      | 0                 |
| Meharry Medical C.                                      | 15,840               | 13,784             | 0                          | 565               | 1        | 1,490                   | 0                 |
| Vanderbilt U. and Vanderbilt U. Medical Center          | 1,019,273            | 586,880            | 2,897                      | 313,810           | 81,360   | 31,526                  | 2,800             |
| Texas   | 6,849,522            | 2,872,275          | 929,845                    | 1,872,830         | 478,394  | 417,527                 | 278,651           |
| Public  | 5,800,026            | 2,367,215          | 883,828                    | 1,514,568         | 431,299  | 330,692                 | 272,424           |
| Lamar U.  | 4,734                | 1,873              | 2,047                      | 65                | 145      | 500                     | 104               |
| Prairie View A&M U.                                     | 17,582               | 9,566              | 4,041                      | 3,421             | 115      | 439                     | 0                 |
| Sam Houston State U.                                    | 13,315               | 5,632              | 232                        | 6,985             | 29       | 416                     | 21                |
| Stephen F. Austin State U.                              | 3,204                | 1,029              | 1,323                      | 543               | 13       | 164                     | 132               |
| Sul Ross State U.                                       | 2,143                | 505                | 130                        | 123               | 26       | 810                     | 549               |
| Tarleton State U.                                       | 17,729               | 4,620              | 3,749                      | 8,949             | 263      | 148                     | 0                 |
| Texas A&M International U.                              | 3,740                | 1,243              | 797                        | 965               | 85       | 628                     | 22                |
| Texas A&M U., College Station and Health Science Center | 1,147,720            | 528,057            | 198,483                    | 313,192           | 32,978   | 45,135                  | 29,875            |
| Texas A&M U.-Commerce                                   | 3,827                | 1,283              | 76                         | 2,300             | 8        | 141                     | 19                |
| Texas A&M U.-Corpus Christi                             | 30,500               | 10,967             | 9,110                      | 4,589             | 603      | 2,642                   | 2,589             |
| Texas A&M U.-Kingsville                                 | 23,578               | 9,265              | 4,652                      | 3,614             | 353      | 5,468                   | 226               |
| Texas Southern U.                                       | 9,128                | 5,562              | 760                        | 2,692             | 0        | 114                     | 0                 |
| Texas State U.  | 72,510               | 31,116             | 3,949                      | 31,792            | 765      | 4,888                   | 0                 |
| Texas Tech U.   | 197,739              | 33,938             | 27,357                     | 108,999           | 12,221   | 14,929                  | 295               |
| Texas Tech U., Health Sciences Center                   | 41,583               | 12,148             | 16,670                     | 8,153             | 342      | 1,268                   | 3,002             |
| Texas Tech U., Health Sciences Center, El Paso          | 11,360               | 1,831              | 2,829                      | 6,064             | 395      | 241                     | 0                 |
| Texas Woman's U.  | 4,943                | 1,514              | 1,853                      | 893               | 75       | 608                     | 0                 |
| U. Houston  | 202,536              | 77,489             | 35,530                     | 71,291            | 7,745    | 7,309                   | 3,172             |
| U. Houston-Clear Lake                                   | 1,716                | 865                | 620                        | 80                | 107      | 44                      | 0                 |
| U. Houston-Downtown                                     | 1,828                | 1,169              | 72                         | 215               | 0        | 372                     | 0                 |
| U. North Texas, Denton                                  | 81,252               | 18,702             | 5,567                      | 53,591            | 1,992    | 1,329                   | 71                |
| U. North Texas, Health Science Center                   | 50,698               | 32,464             | 9,224                      | 6,615             | 1,633    | 626                     | 136               |
| U. Texas Health Science Center, Houston                 | 308,823              | 165,139            | 42,636                     | 47,653            | 16,305   | 24,200                  | 12,890            |
| U. Texas Health Science Center, San Antonio             | 219,734              | 106,824            | 25,110                     | 51,848            | 10,085   | 25,548                  | 319               |
| U. Texas Health Science Center, Tyler                   | 27,928               | 12,007             | 6,884                      | 3,545             | 111      | 5,381                   | 0                 |
| U. Texas M. D. Anderson Cancer Center                   | 1,124,971            | 217,073            | 293,325                    | 233,279           | 211,849  | 32,741                  | 136,704           |
| U. Texas Medical Branch                                 | 185,759              | 117,915            | 7,739                      | 39,565            | 8,424    | 12,116                  | 0                 |
| U. Texas of the Permian Basin                           | 3,504                | 1,762              | 460                        | 522               | 54       | 706                     | 0                 |

TABLE 70

**Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2021**

(Dollars in thousands)

| State, institutional control, and institution | All R&D expenditures | Source of funds    |                            |                   |          |                         |                   |
|---|----------------------|--------------------|----------------------------|-------------------|----------|-------------------------|-------------------|
|   |                      | Federal government | State and local government | Institution funds | Business | Nonprofit organizations | All other sources |
| U. Texas Rio Grande Valley                    | 58,187               | 13,018             | 6,945                      | 29,053            | 265      | 8,701                   | 205               |
| U. Texas Southwestern Medical Center          | 632,134              | 257,611            | 68,114                     | 151,111           | 38,886   | 52,491                  | 63,921            |
| U. Texas, Arlington                           | 126,477              | 46,946             | 19,262                     | 49,685            | 3,006    | 6,131                   | 1,447             |
| U. Texas, Austin                              | 779,348              | 489,827            | 30,336                     | 139,669           | 68,580   | 43,258                  | 7,678             |
| U. Texas, Dallas                              | 122,825              | 58,249             | 11,065                     | 29,308            | 6,581    | 17,622                  | 0                 |
| U. Texas, El Paso                             | 109,410              | 43,930             | 19,841                     | 34,866            | 994      | 3,441                   | 6,338             |
| U. Texas, San Antonio                         | 145,362              | 42,952             | 17,629                     | 67,130            | 5,196    | 9,854                   | 2,601             |
| U. Texas, Tyler                               | 2,279                | 929                | 153                        | 649               | 238      | 252                     | 58                |
| West Texas A&M U.                             | 9,920                | 2,195              | 5,258                      | 1,554             | 832      | 31                      | 50                |
| Private                                       | 1,049,496            | 505,060            | 46,017                     | 358,262           | 47,095   | 86,835                  | 6,227             |
| Abilene Christian U.                          | 4,597                | 827                | 0                          | 199               | 3,546    | 25                      | 0                 |
| Baylor C. of Medicine                         | 716,976              | 365,472            | 34,447                     | 239,079           | 29,465   | 48,513                  | 0                 |
| Baylor U.                                     | 48,809               | 11,025             | 1,892                      | 26,678            | 3,116    | 4,510                   | 1,588             |
| Rice U.                                       | 207,404              | 95,648             | 7,372                      | 62,352            | 7,123    | 30,638                  | 4,271             |
| Southern Methodist U.                         | 41,960               | 17,886             | 1,039                      | 18,643            | 2,072    | 2,144                   | 176               |
| St. Edward's U.                               | 9,527                | 7,600              | 800                        | 1,030             | 15       | 31                      | 51                |
| Texas Christian U.                            | 15,336               | 4,448              | 438                        | 8,684             | 1,670    | 23                      | 73                |
| Trinity U.                                    | 2,905                | 1,078              | 29                         | 812               | 5        | 913                     | 68                |
| U. of the Incarnate Word                      | 1,982                | 1,076              | 0                          | 785               | 83       | 38                      | 0                 |
| Utah  | 993,876              | 635,448            | 28,336                     | 235,145           | 49,350   | 35,671                  | 9,926             |
| Public  | 949,960              | 605,009            | 27,119                     | 228,631           | 45,758   | 33,899                  | 9,544             |
| U. Utah                                       | 624,737              | 340,434            | 4,638                      | 203,839           | 38,783   | 33,417                  | 3,626             |
| Utah State U.                                 | 325,223              | 264,575            | 22,481                     | 24,792            | 6,975    | 482                     | 5,918             |
| Private                                       | 43,916               | 30,439             | 1,217                      | 6,514             | 3,592    | 1,772                   | 382               |
| Brigham Young U., Provo                       | 43,916               | 30,439             | 1,217                      | 6,514             | 3,592    | 1,772                   | 382               |
| Vermont                                       | 198,247              | 106,193            | 727                        | 74,424            | 1,989    | 9,062                   | 5,852             |
| Public  | 195,320              | 103,554            | 727                        | 74,407            | 1,989    | 8,801                   | 5,842             |
| U. Vermont                                    | 195,320              | 103,554            | 727                        | 74,407            | 1,989    | 8,801                   | 5,842             |
| Private                                       | 2,927                | 2,639              | 0                          | 17                | 0        | 261                     | 10                |
| Middlebury C.                                 | 2,927                | 2,639              | 0                          | 17                | 0        | 261                     | 10                |
| Virginia                                      | 1,942,260            | 877,464            | 130,517                    | 680,754           | 83,342   | 95,144                  | 75,039            |
| Public  | 1,918,424            | 863,419            | 130,317                    | 671,917           | 83,243   | 94,489                  | 75,039            |
| Christopher Newport U.                        | 2,656                | 1,497              | 2                          | 919               | 89       | 149                     | 0                 |

TABLE 70

**Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2021**

(Dollars in thousands)

| State, institutional control, and institution | All R&D expenditures | Source of funds    |                            |                   |          |                         |                   |
|---|----------------------|--------------------|----------------------------|-------------------|----------|-------------------------|-------------------|
|   |                      | Federal government | State and local government | Institution funds | Business | Nonprofit organizations | All other sources |
| Eastern Virginia Medical School               | 19,415               | 14,774             | 176                        | 2,384             | 1,298    | 783                     | 0                 |
| George Mason U.                               | 214,207              | 103,712            | 3,387                      | 65,041            | 5,910    | 30,643                  | 5,514             |
| James Madison U.                              | 14,687               | 2,379              | 349                        | 11,111            | 330      | 507                     | 11                |
| Norfolk State U.                              | 4,316                | 3,976              | 0                          | 0                 | 52       | 35                      | 253               |
| Old Dominion U.                               | 62,332               | 25,514             | 17,685                     | 14,098            | 918      | 3,565                   | 552               |
| U. of Mary Washington                         | 1,123                | 485                | 100                        | 480               | 2        | 25                      | 31                |
| U. Virginia's C. Wise                         | 3,310                | 1,307              | 1,267                      | 718               | 0        | 9                       | 9                 |
| U. Virginia, Charlottesville                  | 611,313              | 297,273            | 8,714                      | 181,375           | 28,643   | 34,515                  | 60,793            |
| Virginia Commonwealth U.                      | 364,096              | 160,995            | 31,893                     | 144,356           | 12,494   | 14,358                  | 0                 |
| Virginia Polytechnic Institute and State U.   | 542,045              | 216,733            | 60,571                     | 220,645           | 32,964   | 5,050                   | 6,082             |
| Virginia State U.                             | 10,123               | 4,846              | 2,278                      | 2,602             | 0        | 397                     | 0                 |
| William & Mary                                | 68,801               | 29,928             | 3,895                      | 28,188            | 543      | 4,453                   | 1,794             |
| Private                                       | 23,836               | 14,045             | 200                        | 8,837             | 99       | 655                     | 0                 |
| Edward Via C. of Osteopathic Medicine         | 6,629                | 537                | 0                          | 5,879             | 31       | 182                     | 0                 |
| Hampton U.                                    | 11,669               | 11,517             | 0                          | 152               | 0        | 0                       | 0                 |
| Liberty U.                                    | 937                  | 120                | 75                         | 657               | 68       | 17                      | 0                 |
| Marymount U.                                  | 2,307                | 337                | 125                        | 1,779             | 0        | 66                      | 0                 |
| U. Richmond                                   | 2,294                | 1,534              | 0                          | 370               | 0        | 390                     | 0                 |
| Washington                                    | 1,881,044            | 1,242,894          | 72,940                     | 220,094           | 64,860   | 230,176                 | 50,080            |
| Public  | 1,879,482            | 1,241,792          | 72,886                     | 219,965           | 64,860   | 229,906                 | 50,073            |
| Central Washington U.                         | 2,410                | 1,778              | 185                        | 346               | 55       | 46                      | 0                 |
| Eastern Washington U.                         | 1,921                | 775                | 965                        | NA                | 20       | 109                     | 52                |
| Northwest Indian C.                           | 2,806 i              | 2,621 i            | 0 i                        | 32 i              | 0 i      | 153 i                   | 0 i               |
| U. Washington, Bothell                        | 8,311                | 2,956              | 86                         | 814               | 0        | 4,386                   | 69                |
| U. Washington, Seattle                        | 1,488,645            | 1,046,377          | 21,877                     | 105,070           | 54,751   | 212,584                 | 47,986            |
| U. Washington, Tacoma                         | 4,291                | 3,459              | 349                        | 234               | 0        | 99                      | 150               |
| Washington State U.                           | 357,648              | 179,536            | 48,317                     | 106,804           | 9,897    | 11,326                  | 1,768             |
| Western Washington U.                         | 13,450               | 4,290              | 1,107                      | 6,665             | 137      | 1,203                   | 48                |
| Private                                       | 1,562                | 1,102              | 54                         | 129               | 0        | 270                     | 7                 |
| Seattle U.                                    | 1,562                | 1,102              | 54                         | 129               | 0        | 270                     | 7                 |
| West Virginia                                 | 231,347              | 107,198            | 12,630                     | 82,686            | 4,731    | 6,863                   | 17,239            |
| Public  | 231,347              | 107,198            | 12,630                     | 82,686            | 4,731    | 6,863                   | 17,239            |
| Marshall U.                                   | 23,620               | 12,854             | 1,040                      | 8,589             | 226      | 911                     | 0                 |

TABLE 70

## Higher education R&amp;D expenditures, by state, institutional control, institution, and source of funds: FY 2021

(Dollars in thousands)

| State, institutional control, and institution | All R&D expenditures | Source of funds    |                            |                   |          |                         |                   |
|---|----------------------|--------------------|----------------------------|-------------------|----------|-------------------------|-------------------|
|   |                      | Federal government | State and local government | Institution funds | Business | Nonprofit organizations | All other sources |
| West Virginia School of Osteopathic Medicine  | 1,255                | 423                | 31                         | 801               | 0        | 0                       | 0                 |
| West Virginia State U.                        | 6,565                | 4,119              | 1,566                      | 877               | 0        | 3                       | 0                 |
| West Virginia U.                              | 199,907              | 89,802             | 9,993                      | 72,419            | 4,505    | 5,949                   | 17,239            |
| Wisconsin                                     | 1,771,499            | 830,859            | 156,597                    | 529,125           | 60,477   | 147,255                 | 47,186            |
| Public  | 1,453,273            | 679,108            | 155,553                    | 428,439           | 34,035   | 119,252                 | 36,886            |
| U. Wisconsin-Eau Claire                       | 1,852                | 909                | 410                        | 308               | 83       | 139                     | 3                 |
| U. Wisconsin-Green Bay                        | 1,879                | 876                | 441                        | 454               | 25       | 83                      | 0                 |
| U. Wisconsin-La Crosse                        | 3,001                | 895                | 862                        | 807               | 365      | 63                      | 9                 |
| U. Wisconsin-Madison                          | 1,380,075            | 646,764            | 135,923                    | 412,540           | 31,502   | 117,817                 | 35,529            |
| U. Wisconsin-Milwaukee                        | 55,664               | 24,397             | 15,783                     | 11,939            | 1,596    | 924                     | 1,025             |
| U. Wisconsin-Oshkosh                          | 1,656                | 1,083              | 94                         | 415               | 31       | 33                      | 0                 |
| U. Wisconsin-Platteville                      | 1,144                | 353                | 294                        | 194               | 264      | 30                      | 9                 |
| U. Wisconsin-River Falls                      | 999                  | 212                | 588                        | 3                 | 141      | 0                       | 55                |
| U. Wisconsin-Stevens Point                    | 4,401                | 1,776              | 1,010                      | 1,289             | 12       | 121                     | 193               |
| U. Wisconsin-Superior                         | 2,602                | 1,843              | 148                        | 490               | 16       | 42                      | 63                |
| Private                                       | 318,226              | 151,751            | 1,044                      | 100,686           | 26,442   | 28,003                  | 10,300            |
| Marquette U.                                  | 37,087               | 13,918             | 365                        | 14,809            | 947      | 2,042                   | 5,006             |
| Medical C. Wisconsin                          | 276,850              | 136,385            | 640                        | 85,666            | 23,118   | 25,747                  | 5,294             |
| Milwaukee School of Engineering               | 3,193                | 751                | 10                         | 54                | 2,377    | 1                       | 0                 |
| Northland C.                                  | 1,096                | 697                | 29                         | 157               | 0        | 213                     | 0                 |
| Wyoming                                       | 93,202               | 54,444             | 4,681                      | 26,166            | 6,088    | 1,756                   | 67                |
| Public  | 93,202               | 54,444             | 4,681                      | 26,166            | 6,088    | 1,756                   | 67                |
| U. Wyoming                                    | 93,202               | 54,444             | 4,681                      | 26,166            | 6,088    | 1,756                   | 67                |
| American Samoa                                | 815                  | 815                | 0                          | 0                 | 0        | 0                       | 0                 |
| Public  | 815                  | 815                | 0                          | 0                 | 0        | 0                       | 0                 |
| American Samoa Community C.                   | 815                  | 815                | 0                          | 0                 | 0        | 0                       | 0                 |
| Guam  | 17,666               | 14,316             | 1,705                      | 1,465             | 24       | 156                     | 0                 |
| Public  | 17,666               | 14,316             | 1,705                      | 1,465             | 24       | 156                     | 0                 |
| U. Guam                                       | 17,666               | 14,316             | 1,705                      | 1,465             | 24       | 156                     | 0                 |
| Puerto Rico                                   | 123,707              | 85,484             | 3,055                      | 29,659            | 4,600    | 650                     | 259               |
| Public  | 94,577               | 63,782             | 2,021                      | 25,217            | 2,917    | 477                     | 163               |
| U. Puerto Rico, Cayey                         | 1,881                | 1,202              | 0                          | 539               | 11       | 129                     | 0                 |
| U. Puerto Rico, Humacao                       | 1,321                | 1,137              | 0                          | 184               | 0        | 0                       | 0                 |



TABLE 70

**Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2021**

(Dollars in thousands)

| State, institutional control, and institution | All R&D expenditures | Source of funds    |                            |                   |          |                         |                   |
|---|----------------------|--------------------|----------------------------|-------------------|----------|-------------------------|-------------------|
|   |                      | Federal government | State and local government | Institution funds | Business | Nonprofit organizations | All other sources |
| U. Puerto Rico, Mayaguez                      | 18,368               | 13,073             | 33                         | 5,148             | 37       | 0                       | 77                |
| U. Puerto Rico, Medical Sciences Campus       | 44,111               | 33,262             | 1,838                      | 6,320             | 2,688    | 0                       | 3                 |
| U. Puerto Rico, Rio Piedras                   | 28,896               | 15,108             | 150                        | 13,026            | 181      | 348                     | 83                |
| Private                                       | 29,130               | 21,702             | 1,034                      | 4,442             | 1,683    | 173                     | 96                |
| Albizu U.                                     | 428                  | 0                  | 126                        | 272               | 0        | 0                       | 30                |
| Ponce Health Sciences U.                      | 23,297               | 18,284             | 685                        | 2,472             | 1,683    | 173                     | 0                 |
| U. Ana G. Mendez, Gurabo                      | 1,574                | 926                | 0                          | 648               | 0        | 0                       | 0                 |
| U. Central del Caribe                         | 3,831                | 2,492              | 223                        | 1,050             | 0        | 0                       | 66                |
| Virgin Islands                                | 15,231               | 13,099             | 1,818                      | 17                | 142      | 155                     | 0                 |
| Public  | 15,231               | 13,099             | 1,818                      | 17                | 142      | 155                     | 0                 |
| U. of the Virgin Islands                      | 15,231               | 13,099             | 1,818                      | 17                | 142      | 155                     | 0                 |

i = imputed. NA = not available; data were not provided by institution.

<sup>a</sup> The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

<sup>b</sup> The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

<sup>c</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

<sup>d</sup> Johns Hopkins University includes the Applied Physics Laboratory, with \$1,949,752 thousand in total R&D expenditures in FY 2021.

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2021.