

TABLE 27. R&amp;D expenditures at universities and colleges, ranked by FY 2009 R&amp;D expenditures: FY 2002–09

(Dollars in thousands)

| Rank | Institution                             | 2002       | 2003       | 2004       | 2005       | 2006       | 2007       | 2008       | 2009       |
|------|---|------------|------------|------------|------------|------------|------------|------------|------------|
|      | All institutions                        | 36,405,220 | 40,100,324 | 43,257,915 | 45,798,944 | 47,750,592 | 49,493,338 | 51,934,133 | 54,935,457 |
| 1    | Johns Hopkins U., The <sup>a</sup>      | 1,140,235  | 1,244,132  | 1,375,014  | 1,443,792  | 1,499,977  | 1,554,103  | 1,680,927  | 1,856,270  |
| 2    | U. MI all campuses                      | 673,724    | 780,054    | 769,126    | 808,887    | 800,488    | 808,731    | 876,390    | 1,007,198  |
| 3    | U. WI Madison                           | 662,101    | 717,044    | 763,875    | 798,099    | 831,895    | 840,672    | 881,777    | 952,119    |
| 4    | U. CA, San Francisco                    | 596,965    | 671,443    | 728,321    | 754,444    | 796,149    | 842,840    | 885,182    | 947,697    |
| 5    | U. CA, Los Angeles <sup>b</sup>         | 787,598    | 849,357    | 772,569    | 785,625    | 811,493    | 823,083    | 871,478    | 889,995    |
| 6    | U. CA, San Diego                        | 585,008    | 646,508    | 708,690    | 721,035    | 754,766    | 798,896    | 842,027    | 879,357    |
| 7    | Duke U.                                 | 441,533    | 520,191    | 520,871    | 630,752    | 657,080    | 781,843    | 766,906    | 805,021    |
| 8    | U. WA                                   | 627,273    | 684,814    | 713,976    | 707,519    | 778,148    | 756,787    | 765,135    | 778,046    |
| 9    | PA State U. all campuses                | 492,739    | 533,427    | 600,139    | 625,764    | 644,182    | 652,144    | 701,130    | 753,358    |
| 10   | U. MN all campuses                      | 494,265    | 508,557    | 526,270    | 548,873    | 594,877    | 624,149    | 682,662    | 740,980    |
| 11   | MA Institute of Technology              | 446,786    | 485,764    | 543,448    | 580,742    | 600,748    | 614,352    | 659,626    | 736,102    |
| 12   | U. PA                                   | 522,269    | 564,635    | 596,756    | 654,982    | 676,052    | 648,247    | 708,244    | 726,768    |
| 13   | OH State U. all campuses                | 432,387    | 496,438    | 518,088    | 608,923    | 652,329    | 720,206    | 702,592    | 716,461    |
| 14   | Stanford U.                             | 538,474    | 603,227    | 671,046    | 714,897    | 679,196    | 687,511    | 688,225    | 704,183    |
| 15   | U. CA, Davis                            | 456,653    | 482,145    | 511,757    | 546,978    | 573,002    | 600,508    | 642,519    | 681,618    |
| 16   | Cornell U. all campuses                 | 496,123    | 554,760    | 575,554    | 606,804    | 648,802    | 641,936    | 653,996    | 671,406    |
| 17   | U. CA, Berkeley                         | 474,746    | 507,186    | 525,598    | 554,551    | 546,035    | 552,365    | 591,770    | 652,474    |
| 18   | U. CO all campuses                      | 399,818    | 436,761    | 482,992    | 517,067    | 512,794    | 527,587    | 535,556    | 648,417    |
| 19   | U. NC Chapel Hill                       | 370,806    | 390,542    | 416,727    | 441,033    | 443,790    | 477,231    | 525,843    | 646,011    |
| 20   | TX A&M U.                               | 436,681    | 456,235    | 456,809    | 479,735    | 492,955    | 543,888    | 582,365    | 630,655    |
| 21   | Washington U. St. Louis                 | 416,960    | 474,328    | 489,565    | 531,846    | 547,674    | 572,775    | 563,967    | 628,328    |
| 22   | U. Pittsburgh all campuses              | 400,200    | 409,684    | 461,693    | 522,448    | 530,162    | 558,566    | 595,627    | 623,347    |
| 23   | U. FL                                   | 386,316    | 429,734    | 447,146    | 530,734    | 565,491    | 592,835    | 584,170    | 592,082    |
| 24   | Columbia U. in the City of New York     | 405,403    | 437,669    | 468,484    | 535,424    | 529,945    | 545,995    | 548,704    | 589,575    |
| 25   | U. TX M. D. Anderson Cancer Ctr.        | 262,145    | 315,169    | 353,034    | 383,780    | 457,696    | 496,539    | 558,503    | 578,788    |
| 26   | U. AZ                                   | 390,827    | 454,941    | 478,680    | 530,233    | 535,847    | 531,753    | 545,869    | 565,292    |
| 27   | U. IL Urbana-Champaign                  | 427,174    | 493,581    | 506,041    | 499,711    | 476,198    | 473,890    | 501,279    | 563,710    |
| 28   | GA Institute of Technology all campuses | 340,347    | 364,190    | 410,799    | 425,386    | 440,898    | 472,591    | 522,136    | 561,631    |
| 29   | U. Southern CA                          | 372,397    | 414,099    | 426,665    | 445,036    | 450,173    | 508,138    | 519,543    | 533,041    |
| 30   | Northwestern U.                         | 282,154    | 319,722    | 358,947    | 387,242    | 419,985    | 443,345    | 483,881    | 515,229    |
| 31   | Yale U.                                 | 354,243    | 387,644    | 422,828    | 431,618    | 460,075    | 448,671    | 487,285    | 509,452    |
| 32   | U. TX Austin                            | 320,966    | 343,854    | 343,886    | 410,981    | 431,398    | 446,765    | 493,294    | 506,369    |
| 33   | Harvard U.                              | 401,367    | 408,707    | 454,495    | 447,196    | 453,156    | 451,276    | 453,028    | 462,193    |
| 34   | Purdue U. all campuses                  | 285,778    | 309,476    | 365,779    | 364,986    | 372,958    | 415,172    | 429,988    | 453,799    |
| 35   | Emory U.                                | 271,238    | 323,224    | 311,685    | 333,665    | 345,989    | 398,383    | 441,222    | 449,419    |
| 36   | Baylor C. of Medicine                   | 411,924    | 461,763    | 476,075    | 458,694    | 462,375    | 438,280    | 449,301    | 449,031    |
| 37   | IN U. all campuses                      | 299,080    | 337,669    | 384,168    | 307,137    | 355,004    | 386,654    | 411,939    | 440,815    |
| 38   | U. AL Birmingham, The                   | 255,053    | 284,497    | 310,950    | 318,536    | 331,436    | 351,457    | 404,615    | 431,732    |
| 39   | Vanderbilt U.                           | 208,305    | 276,074    | 318,335    | 350,433    | 376,893    | 399,149    | 422,622    | 431,673    |
| 40   | Case Western Reserve U.                 | 219,042    | 250,674    | 231,800    | 323,618    | 369,264    | 372,374    | 416,077    | 415,539    |
| 41   | U. MD College Park                      | 324,980    | 321,899    | 325,648    | 338,648    | 354,244    | 359,760    | 395,037    | 409,190    |

TABLE 27. R&amp;D expenditures at universities and colleges, ranked by FY 2009 R&amp;D expenditures: FY 2002–09

(Dollars in thousands)

| Rank | Institution                            | 2002    | 2003    | 2004    | 2005    | 2006    | 2007    | 2008    | 2009    |
|------|--|---------|---------|---------|---------|---------|---------|---------|---------|
| 42   | U. TX Southwestern Medical Ctr. Dallas | 263,958 | 276,692 | 314,403 | 320,800 | 333,237 | 341,090 | 390,349 | 402,087 |
| 43   | LA State U. all campuses               | 287,363 | 314,446 | 341,634 | 361,688 | 355,465 | 378,906 | 391,357 | 401,306 |
| 44   | VA Polytechnic Institute and State U.  | 232,560 | 247,807 | 268,752 | 289,994 | 321,722 | 366,960 | 373,281 | 396,681 |
| 45   | U. Rochester                           | 261,601 | 285,768 | 312,303 | 345,337 | 366,658 | 373,247 | 375,218 | 395,358 |
| 46   | Scripps Research Institute, The        | NA      | NA      | 307,910 | 330,170 | 367,375 | 360,511 | 366,047 | 382,275 |
| 47   | NC State U.                            | 290,018 | 286,025 | 292,720 | 302,596 | 330,936 | 331,662 | 366,137 | 380,571 |
| 48   | U. Chicago                             | 225,264 | 247,322 | 272,390 | 293,970 | 305,301 | 322,488 | 357,278 | 377,652 |
| 49   | U. KY all campuses                     | 236,275 | 272,062 | 297,610 | 306,653 | 323,958 | 331,606 | 336,669 | 373,364 |
| 50   | MI State U.                            | 289,787 | 321,410 | 325,438 | 333,735 | 358,097 | 360,852 | 356,767 | 373,184 |
| 51   | U. NE all campuses                     | 247,948 | 276,424 | 299,550 | 333,126 | 333,243 | 336,468 | 349,220 | 366,507 |
| 52   | U. MD Baltimore                        | 266,822 | 297,271 | 317,293 | 304,396 | 405,260 | 358,851 | 379,407 | 359,542 |
| 53   | U. Cincinnati all campuses             | 216,652 | 254,101 | 276,326 | 286,036 | 294,150 | 336,717 | 344,046 | 356,752 |
| 54   | Rutgers, The State U. NJ all campuses  | 258,829 | 278,763 | 296,534 | 309,531 | 308,204 | 311,612 | 323,404 | 351,564 |
| 55   | U. GA                                  | 284,660 | 299,748 | 313,160 | 316,806 | 323,843 | 332,612 | 350,299 | 349,730 |
| 56   | CA Institute of Technology             | 220,004 | 240,664 | 261,098 | 265,364 | 270,269 | 285,488 | 272,881 | 342,455 |
| 57   | U. IL Chicago                          | 259,852 | 291,507 | 312,768 | 318,279 | 332,176 | 342,421 | 335,138 | 341,655 |
| 58   | SUNY Albany                            | 67,493  | 120,655 | 203,977 | 259,708 | 274,354 | 309,221 | 270,414 | 340,259 |
| 59   | SUNY Buffalo all campuses              | 226,959 | 240,180 | 258,952 | 267,271 | 297,909 | 314,837 | 329,720 | 338,283 |
| 60   | U. UT                                  | 216,707 | 223,739 | 230,146 | 244,691 | 248,168 | 247,794 | 253,891 | 331,137 |
| 61   | U. IA                                  | 288,808 | 292,035 | 312,914 | 334,144 | 346,357 | 363,243 | 293,564 | 329,901 |
| 62   | U. CA, Irvine                          | 209,469 | 234,656 | 257,024 | 276,763 | 300,229 | 309,554 | 324,552 | 325,493 |
| 63   | Mt. Sinai School of Medicine           | 185,335 | 203,853 | 212,786 | 225,293 | 273,216 | 269,451 | 296,380 | 318,407 |
| 64   | OR Health & Science U.                 | 158,729 | 197,178 | 254,447 | 266,687 | 272,174 | 287,430 | 301,396 | 309,675 |
| 65   | U. South FL                            | 197,894 | 213,249 | 240,021 | 259,218 | 285,941 | 272,661 | 278,419 | 309,456 |
| 66   | NY U.                                  | 222,978 | 241,593 | 259,333 | 276,198 | 284,164 | 297,867 | 310,699 | 308,834 |
| 67   | CO State U.                            | 178,845 | 187,054 | 214,886 | 236,211 | 253,992 | 288,497 | 295,235 | 304,397 |
| 68   | U. HI Manoa                            | 161,823 | 179,285 | 236,368 | 230,651 | 249,635 | 266,447 | 271,835 | 290,707 |
| 69   | WA State U.                            | 146,862 | 175,181 | 171,735 | 182,677 | 196,391 | 210,010 | 276,806 | 285,595 |
| 70   | U. TN all campuses                     | 188,261 | 217,389 | 228,760 | 255,699 | 249,072 | 243,184 | 250,188 | 284,896 |
| 71   | AZ State U.                            | 123,016 | 145,591 | 152,164 | 166,923 | 201,955 | 224,352 | 259,503 | 281,588 |
| 72   | Boston U.                              | 192,612 | 224,841 | 240,867 | 246,520 | 255,615 | 249,279 | 255,022 | 280,814 |
| 73   | U. VA all campuses                     | 182,340 | 206,199 | 228,532 | 235,058 | 238,754 | 229,653 | 257,651 | 261,604 |
| 74   | SUNY Stony Brook all campuses          | 184,045 | 200,330 | 213,547 | 212,289 | 234,635 | 268,282 | 252,745 | 258,098 |
| 75   | Rockefeller U.                         | 166,603 | 192,143 | 192,222 | 198,719 | 215,417 | 233,917 | 247,505 | 252,478 |
| 76   | Wayne State U.                         | 199,007 | 214,642 | 225,475 | 226,331 | 220,731 | 235,186 | 249,210 | 251,854 |
| 77   | U. Miami                               | 171,319 | 177,709 | 194,446 | 209,572 | 213,516 | 210,534 | 241,775 | 248,029 |
| 78   | U. MO-Columbia                         | 177,011 | 205,212 | 217,550 | 220,718 | 215,240 | 228,654 | 244,639 | 245,058 |
| 79   | U. KS all campuses                     | 172,131 | 173,024 | 181,192 | 190,105 | 195,947 | 202,129 | 215,364 | 225,856 |
| 80   | U. CT all campuses                     | 172,003 | 190,341 | 211,236 | 219,982 | 215,184 | 224,679 | 225,904 | 225,217 |
| 81   | IA State U.                            | 188,664 | 199,566 | 211,996 | 209,545 | 221,998 | 217,158 | 224,368 | 224,311 |
| 82   | U. of Medicine and Dentistry NJ        | 178,156 | 190,763 | 209,134 | 239,778 | 245,771 | 236,834 | 230,347 | 223,796 |
| 83   | U. TX Health Science Ctr. San Antonio  | 129,616 | 133,304 | 137,039 | 142,375 | 150,040 | 160,282 | 201,323 | 221,535 |

TABLE 27. R&amp;D expenditures at universities and colleges, ranked by FY 2009 R&amp;D expenditures: FY 2002–09

(Dollars in thousands)

| Rank | Institution                                  | 2002    | 2003    | 2004    | 2005    | 2006    | 2007    | 2008    | 2009    |
|------|--|---------|---------|---------|---------|---------|---------|---------|---------|
| 84   | Carnegie Mellon U.                           | 188,191 | 186,351 | 205,149 | 200,297 | 212,506 | 197,143 | 210,619 | 217,667 |
| 85   | U. TX Health Science Ctr. Houston            | 138,380 | 149,294 | 147,328 | 152,631 | 175,154 | 191,724 | 197,252 | 217,623 |
| 86   | MS State U.                                  | 158,652 | 165,922 | 191,352 | 179,825 | 189,917 | 206,207 | 210,951 | 216,936 |
| 87   | Medical U. SC                                | 132,030 | 150,551 | 163,179 | 178,086 | 176,055 | 184,624 | 189,369 | 216,778 |
| 88   | U. CA, Santa Barbara                         | 131,795 | 149,130 | 151,325 | 165,014 | 174,429 | 191,204 | 203,719 | 215,728 |
| 89   | OR State U.                                  | 161,735 | 167,631 | 170,286 | 180,309 | 189,606 | 189,368 | 188,056 | 209,061 |
| 90   | U. MA Worcester                              | 132,729 | 148,823 | 169,090 | 176,349 | 156,452 | 157,469 | 178,614 | 204,033 |
| 91   | U. NM main campus                            | 150,598 | 158,239 | 170,085 | 178,703 | 181,223 | 177,430 | 197,630 | 201,769 |
| 92   | Wake Forest U.                               | 111,634 | 130,405 | 133,753 | 185,152 | 183,129 | 185,609 | 199,915 | 201,204 |
| 93   | Princeton U.                                 | 164,408 | 179,951 | 188,373 | 202,380 | 188,165 | 188,732 | 194,757 | 200,580 |
| 94   | U. OK all campuses                           | 169,373 | 174,466 | 158,578 | 173,663 | 178,719 | 176,825 | 192,070 | 196,772 |
| 95   | FL State U.                                  | 134,351 | 152,277 | 168,132 | 172,858 | 185,633 | 189,565 | 182,314 | 195,244 |
| 96   | Yeshiva U.                                   | 157,124 | 177,236 | 183,253 | 193,104 | 189,416 | 192,199 | 197,311 | 193,010 |
| 97   | Uniformed Services U. of the Health Sciences | 28,630  | 30,604  | 89,999  | 78,694  | 67,716  | 71,307  | 106,179 | 192,268 |
| 98   | Dartmouth C.                                 | 126,839 | 155,795 | 173,266 | 179,094 | 200,277 | 192,846 | 186,938 | 189,351 |
| 99   | U. SC all campuses                           | 123,108 | 121,410 | 121,671 | 122,212 | 153,737 | 158,857 | 172,378 | 186,996 |
| 100  | Clemson U.                                   | 134,840 | 152,986 | 158,585 | 175,127 | 179,840 | 211,760 | 195,195 | 186,383 |
| 101  | U. TX Medical Branch                         | 129,534 | 153,122 | 166,798 | 174,254 | 179,915 | 183,492 | 180,026 | 184,845 |
| 102  | Medical C. WI                                | 96,700  | 108,608 | 139,235 | 143,540 | 147,140 | 158,171 | 165,529 | 176,237 |
| 103  | Brown U.                                     | 109,482 | 125,090 | 130,741 | 138,262 | 157,926 | 152,619 | 157,670 | 161,650 |
| 104  | Woods Hole Oceanographic Institution         | 99,964  | 104,223 | 114,087 | 117,517 | 121,888 | 137,410 | 150,720 | 157,289 |
| 105  | U. MA Amherst                                | 109,332 | 113,512 | 120,788 | 127,487 | 135,272 | 141,351 | 152,884 | 156,216 |
| 106  | Tulane U.                                    | 102,998 | 117,709 | 123,677 | 138,959 | 114,397 | 137,107 | 153,242 | 155,139 |
| 107  | VA Commonwealth U.                           | 109,619 | 126,451 | 132,839 | 146,105 | 149,256 | 134,453 | 148,655 | 150,989 |
| 108  | NM State U. main campus                      | 103,078 | 108,613 | 93,329  | 125,427 | 164,994 | 148,120 | 138,427 | 149,798 |
| 109  | Tufts U.                                     | 109,291 | 112,609 | 126,432 | 131,028 | 128,965 | 130,826 | 139,528 | 147,903 |
| 110  | Georgetown U.                                | 105,668 | 117,713 | 126,320 | 123,938 | 118,558 | 137,775 | 142,623 | 147,441 |
| 111  | U. Louisville                                | 80,974  | 88,522  | 110,653 | 128,347 | 135,873 | 151,226 | 148,936 | 146,874 |
| 112  | KS State U.                                  | 106,804 | 112,733 | 119,306 | 123,398 | 123,746 | 123,900 | 137,543 | 146,310 |
| 113  | U. CA, Santa Cruz                            | 70,967  | 78,448  | 94,297  | 105,617 | 114,126 | 124,856 | 135,261 | 144,052 |
| 114  | Auburn U. all campuses                       | 108,775 | 117,000 | 125,705 | 132,203 | 126,522 | 140,629 | 146,984 | 143,654 |
| 115  | UT State U.                                  | 121,621 | 138,862 | 153,616 | 131,624 | 138,670 | 140,243 | 146,128 | 143,010 |
| 116  | WV U.  | 84,985  | 104,748 | 108,002 | 115,398 | 122,134 | 133,590 | 139,770 | 139,592 |
| 117  | U. CA, Riverside                             | 111,936 | 112,468 | 110,627 | 122,221 | 124,820 | 128,057 | 129,605 | 130,187 |
| 118  | U. DE  | 85,157  | 100,706 | 109,985 | 110,339 | 114,985 | 118,245 | 125,179 | 124,475 |
| 119  | U. AK Fairbanks all campuses                 | 116,279 | 128,916 | 132,212 | 139,488 | 153,470 | 128,155 | 121,067 | 123,420 |
| 120  | U. VT  | 88,602  | 104,994 | 114,120 | 115,693 | 121,841 | 113,195 | 115,421 | 122,558 |
| 121  | OK State U. all campuses                     | 94,987  | 103,079 | 103,915 | 99,436  | 100,323 | 101,112 | 121,226 | 120,445 |
| 122  | MT State U. Bozeman                          | 78,211  | 91,503  | 97,696  | 109,465 | 112,428 | 116,999 | 120,155 | 115,045 |
| 123  | U. Central FL                                | 66,351  | 89,880  | 103,261 | 102,702 | 107,996 | 111,595 | 108,067 | 113,433 |
| 124  | ND State U. all campuses                     | 72,105  | 91,812  | 102,115 | 103,011 | 103,778 | 106,208 | 115,513 | 113,214 |
| 125  | U. NH  | 93,222  | 96,415  | 103,935 | 108,378 | 115,117 | 114,228 | 113,877 | 107,860 |

TABLE 27. R&amp;D expenditures at universities and colleges, ranked by FY 2009 R&amp;D expenditures: FY 2002–09

(Dollars in thousands)

| Rank | Institution                                | 2002     | 2003    | 2004     | 2005     | 2006    | 2007    | 2008    | 2009    |
|------|--|----------|---------|----------|----------|---------|---------|---------|---------|
| 126  | U. NV, Reno                                | 66,721   | 80,553  | 83,552   | 95,579   | 98,917  | 95,809  | 102,073 | 106,378 |
| 127  | U. AR for Medical Sciences                 | 45,046   | 63,677  | 74,063   | 91,516   | 107,871 | 108,551 | 117,440 | 106,314 |
| 128  | U. AR main campus                          | 83,063   | 82,277  | 88,918   | 98,138   | 99,271  | 101,109 | 102,784 | 105,446 |
| 129  | Drexel U.                                  | 44,465   | 69,548  | 76,120   | 88,049   | 96,687  | 96,575  | 100,911 | 102,366 |
| 130  | Temple U.                                  | 63,850   | 71,327  | 76,055   | 83,062   | 79,736  | 85,394  | 92,486  | 101,864 |
| 131  | Thomas Jefferson U.                        | 102,974  | 109,083 | 112,078  | 107,388  | 106,986 | 107,288 | 99,275  | 101,188 |
| 132  | U. ME                                      | 62,149   | 68,923  | 81,216   | 75,066   | 93,153  | 96,135  | 95,042  | 100,580 |
| 133  | George Washington U.                       | 86,288   | 92,454  | 103,473  | 107,715  | 113,982 | 126,110 | 157,145 | 99,945  |
| 134  | U. Houston                                 | 59,707   | 63,455  | 60,962   | 80,731   | 75,662  | 73,542  | 84,490  | 99,262  |
| 135  | U. of Notre Dame                           | 52,371   | 59,803  | 74,255   | 71,266   | 78,553  | 77,467  | 97,171  | 97,850  |
| 136  | Rush U.                                    | 79,394   | 89,196  | 89,254   | 83,693   | 83,194  | 84,370  | 89,513  | 96,975  |
| 137  | U. Dayton                                  | 46,554   | 52,943  | 63,734   | 67,445   | 69,080  | 74,005  | 81,275  | 93,496  |
| 138  | NJ Institute of Technology                 | 69,138   | 73,664  | 74,998   | 76,920   | 77,583  | 88,699  | 89,792  | 92,891  |
| 139  | FL International U.                        | 47,654   | 52,175  | 63,545   | 76,678   | 63,567  | 90,903  | 95,706  | 91,278  |
| 140  | U. MS all campuses                         | 71,893 i | 85,378  | 79,867   | 91,913   | 93,471  | 108,244 | 90,095  | 90,677  |
| 141  | U. ID                                      | 76,758   | 85,213  | 93,246   | 91,009   | 86,863  | 83,390  | 81,532  | 88,242  |
| 142  | TX A&M U. System Health Science Ctr.       | 49,636   | 55,031  | 64,170   | 73,162   | 76,109  | 77,957  | 79,687  | 83,631  |
| 143  | U. RI                                      | 53,347   | 61,818  | 60,947   | 60,252   | 70,696  | 76,237  | 77,457  | 83,375  |
| 144  | U. CA Office of the President <sup>b</sup> | NA       | NA      | 90,233   | 97,245   | 128,770 | 118,910 | 100,034 | 83,006  |
| 145  | NM Institute of Mining and Technology      | 36,309   | 37,186  | 38,476   | 56,134 i | 73,792  | 83,742  | 79,437  | 81,742  |
| 146  | TX Tech U.                                 | 82,785   | 92,515  | 57,592   | 56,623   | 58,591  | 57,878  | 57,902  | 80,011  |
| 147  | San Diego State U.                         | 64,302   | 67,053  | 66,710   | 73,887   | 73,777  | 65,810  | 69,974  | 79,190  |
| 148  | Rice U.                                    | 48,169   | 52,367  | 60,872   | 63,102   | 66,564  | 71,435  | 74,254  | 78,745  |
| 149  | George Mason U.                            | 38,849   | 44,980  | 46,210   | 42,630   | 50,381  | 58,252  | 72,542  | 78,487  |
| 150  | Rensselaer Polytechnic Institute           | 45,955   | 50,777  | 56,907   | 65,571   | 70,576  | 77,238  | 77,295  | 77,890  |
| 151  | U. WY                                      | 41,632 e | 60,054  | 60,054 e | 83,449   | 89,414  | 79,700  | 74,720  | 77,633  |
| 152  | Naval Postgraduate School                  | 54,291 i | 61,025  | 56,184 i | 51,343   | 56,780  | 63,392  | 83,314  | 76,860  |
| 153  | U. OR                                      | 43,723   | 44,604  | 51,956   | 52,657   | 57,153  | 61,694  | 67,378  | 75,869  |
| 154  | U. MD Baltimore County                     | 36,323   | 42,906  | 49,403   | 58,467   | 65,718  | 66,968  | 66,802  | 75,571  |
| 155  | Old Dominion U.                            | 29,223   | 30,324  | 34,819   | 47,006   | 49,966  | 52,134  | 66,538  | 71,909  |
| 156  | U. ND all campuses                         | 33,973   | 41,803  | 49,595   | 46,798   | 56,074  | 63,036  | 65,027  | 71,656  |
| 157  | U. AL Huntsville, The                      | 48,353   | 46,595  | 49,259   | 54,601   | 59,231  | 70,027  | 65,396  | 71,365  |
| 158  | U. LA Lafayette                            | 47,796   | 43,769  | 55,218   | 44,620   | 47,308  | 52,075  | 58,667  | 68,018  |
| 159  | Southern IL U. Carbondale                  | 53,604   | 53,018  | 53,953   | 57,434   | 74,520  | 64,703  | 67,094  | 66,316  |
| 160  | U. Toledo                                  | 24,825   | 24,123  | 27,708   | 32,351   | 30,493  | 52,448  | 59,583  | 66,136  |
| 161  | SUNY Binghamton                            | 21,343   | 23,090  | 25,405   | 25,769   | 29,635  | 35,462  | 59,017  | 66,050  |
| 162  | Wichita State U.                           | 18,842   | 22,401  | 29,948   | 32,726   | 31,873  | 47,398  | 47,853  | 65,988  |
| 163  | Medical C. GA                              | 51,705   | 56,398  | 58,808   | 67,278   | 61,174  | 60,001  | 57,085  | 65,473  |
| 164  | Brandeis U.                                | 47,122   | 50,841  | 51,498   | 54,136   | 57,017  | 56,831  | 49,797  | 62,228  |
| 165  | Northeastern U.                            | 38,540   | 42,931  | 47,283   | 63,514   | 66,495  | 71,502  | 59,911  | 61,309  |
| 166  | U. TX Dallas                               | 26,198   | 30,748  | 31,274   | 43,111   | 44,198  | 46,477  | 59,300  | 61,214  |
| 167  | GA State U.                                | 44,564   | 45,653  | 45,415   | 50,262   | 52,690  | 51,387  | 77,709  | 60,557  |

TABLE 27. R&amp;D expenditures at universities and colleges, ranked by FY 2009 R&amp;D expenditures: FY 2002–09

(Dollars in thousands)

| Rank | Institution                                | 2002   | 2003   | 2004     | 2005   | 2006   | 2007   | 2008   | 2009     |
|------|--|--------|--------|----------|--------|--------|--------|--------|----------|
| 168  | U. MT-Missoula, The                        | 39,367 | 43,562 | 51,078   | 54,685 | 52,903 | 55,755 | 58,032 | 59,505   |
| 169  | MI Technological U.                        | 30,005 | 30,264 | 35,670   | 40,188 | 43,081 | 55,294 | 58,763 | 58,356   |
| 170  | Charles R. Drew U. of Medicine and Science | 48,839 | 49,888 | 51,994   | 43,231 | 47,188 | 52,118 | 49,224 | 57,604   |
| 171  | U. TX El Paso                              | 23,684 | 27,185 | 25,440   | 26,825 | 32,161 | 39,965 | 48,906 | 56,635   |
| 172  | SD State U.                                | 20,085 | 27,652 | 30,962   | 32,042 | 33,275 | 39,033 | 47,758 | 55,334   |
| 173  | U. MA Lowell                               | 22,827 | 22,783 | 22,163   | 23,852 | 27,635 | 34,824 | 36,486 | 52,431   |
| 174  | U. TX Arlington                            | 15,097 | 15,102 | 19,003   | 28,971 | 29,267 | 32,734 | 43,005 | 51,673   |
| 175  | C. of William and Mary all campuses        | 39,858 | 43,974 | 49,420   | 50,146 | 52,025 | 49,854 | 55,090 | 51,169   |
| 176  | U.S. Air Force Academy                     | 25,589 | 27,198 | 29,998   | 29,438 | 10,547 | 14,504 | 44,297 | 48,641   |
| 177  | Wright State U. all campuses               | 30,962 | 34,860 | 38,052   | 40,328 | 47,711 | 49,713 | 47,770 | 48,153   |
| 178  | U. Southern MS                             | 25,685 | 35,049 | 35,908   | 37,881 | 39,163 | 47,135 | 47,088 | 46,744   |
| 179  | U. MD Biotechnology Institute              | 43,673 | 45,140 | 47,725   | 56,135 | 59,297 | 61,757 | 43,213 | 45,921 i |
| 180  | U. Memphis, The                            | 33,625 | 38,728 | 44,120   | 49,961 | 43,715 | 44,359 | 43,183 | 45,747   |
| 181  | Jackson State U.                           | 25,445 | 28,843 | 31,641   | 35,876 | 38,273 | 36,888 | 42,739 | 44,884   |
| 182  | FL Atlantic U.                             | 23,995 | 25,946 | 23,767   | 27,388 | 28,896 | 38,598 | 41,788 | 44,334   |
| 183  | U. WI Milwaukee                            | 24,933 | 27,259 | 28,268   | 32,748 | 34,033 | 40,023 | 41,285 | 44,115   |
| 184  | U. TX San Antonio                          | 11,115 | 13,654 | 15,738   | 22,429 | 30,259 | 30,542 | 33,106 | 43,818   |
| 185  | U. MD Ctr. for Environmental Science       | 38,501 | 38,344 | 39,631   | 41,022 | 40,146 | 40,720 | 40,556 | 41,670   |
| 186  | OH U. all campuses                         | 36,601 | 37,527 | 38,704   | 43,229 | 38,000 | 38,671 | 38,108 | 41,256   |
| 187  | Boston C.                                  | 31,754 | 32,158 | 32,158 e | 31,588 | 35,659 | 39,261 | 40,796 | 41,132   |
| 188  | Syracuse U. all campuses                   | 45,870 | 48,846 | 58,276   | 62,020 | 36,100 | 36,396 | 38,455 | 40,885   |
| 189  | CO School of Mines                         | 26,515 | 29,162 | 27,087   | 26,499 | 28,729 | 29,939 | 34,050 | 40,117   |
| 190  | San Jose State U.                          | 25,003 | 28,323 | 29,268   | 32,886 | 34,687 | 34,241 | 38,521 | 39,339   |
| 191  | U. NV, Las Vegas                           | 30,527 | 42,205 | 45,429   | 48,343 | 57,031 | 56,034 | 50,775 | 39,148   |
| 192  | St. Louis U. all campuses                  | 35,444 | 41,189 | 41,189 e | 47,356 | 48,133 | 54,265 | 56,644 | 37,983   |
| 193  | Loma Linda U.                              | 23,996 | 26,296 | 29,651   | 29,898 | 32,451 | 28,020 | 35,890 | 37,557   |
| 194  | TX Tech U. Health Science Ctr.             | NA     | NA     | 19,827   | 18,697 | 22,013 | 21,006 | 24,716 | 37,363   |
| 195  | Eastern VA Medical School                  | 28,572 | 32,801 | 33,798   | 33,721 | 33,013 | 31,453 | 30,777 | 36,678   |
| 196  | U. MA Boston                               | 13,121 | 15,793 | 15,460   | 18,148 | 21,056 | 25,952 | 30,272 | 36,637   |
| 197  | U. AL, The                                 | 37,130 | 34,187 | 35,132   | 34,531 | 35,129 | 36,382 | 32,846 | 36,508   |
| 198  | Desert Research Institute                  | 29,465 | 31,757 | 34,783   | 34,570 | 38,511 | 40,238 | 38,045 | 36,490   |
| 199  | CUNY The City C.                           | 17,103 | 17,712 | 25,947   | 28,992 | 30,316 | 32,840 | 34,452 | 36,368   |
| 200  | U. MO-Rolla                                | 32,222 | 35,999 | 41,242   | 38,337 | 37,384 | 30,395 | 36,477 | 35,466   |
| 201  | Loyola U. Chicago                          | 37,607 | 37,581 | 36,134   | 40,551 | 37,669 | 34,940 | 34,568 | 35,126   |
| 202  | Portland State U.                          | 17,683 | 21,433 | 21,433 e | 28,940 | 28,763 | 26,025 | 27,007 | 35,030   |
| 203  | U. PR Medical Sciences Campus              | 29,089 | 31,124 | 34,092   | 35,809 | 38,424 | 38,863 | 35,570 | 34,869   |
| 204  | U. Akron all campuses                      | 28,080 | 27,953 | 27,488   | 26,888 | 28,440 | 27,138 | 27,182 | 34,507   |
| 205  | CUNY Hunter C.                             | 25,905 | 32,704 | 34,931   | 33,024 | 31,308 | 27,046 | 30,402 | 33,267   |
| 206  | SUNY Upstate Medical U.                    | 22,326 | 25,931 | 32,090   | 34,931 | 37,181 | 39,699 | 36,359 | 33,194   |
| 207  | Lehigh U.                                  | 22,687 | 29,211 | 32,048   | 36,709 | 33,469 | 36,537 | 37,156 | 33,169   |
| 208  | Howard U.                                  | 35,387 | 37,577 | 41,404   | 41,609 | 36,465 | 38,020 | 36,419 | 32,884   |
| 209  | Southern IL U. Edwardsville                | 14,043 | 17,100 | 18,973   | 20,883 | 23,737 | 26,904 | 30,333 | 31,795   |

TABLE 27. R&amp;D expenditures at universities and colleges, ranked by FY 2009 R&amp;D expenditures: FY 2002–09

(Dollars in thousands)

| Rank | Institution                                   | 2002     | 2003     | 2004     | 2005     | 2006     | 2007   | 2008     | 2009   |
|------|---|----------|----------|----------|----------|----------|--------|----------|--------|
| 210  | NY Medical C.                                 | 25,222   | 30,492   | 33,521   | 32,460   | 34,397   | 34,365 | 31,644   | 30,584 |
| 211  | U. PR Rio Piedras Campus                      | 9,736    | 11,473   | 12,417   | 20,546   | 21,609   | 21,379 | 34,674   | 30,433 |
| 212  | Miami U. all campuses                         | 13,279   | 13,727   | 15,377   | 18,026   | 19,229   | 23,729 | 25,052   | 29,808 |
| 213  | U. North TX Health Science Ctr. Ft. Worth     | 12,893   | 15,388   | 18,520   | 22,325   | 25,124   | 28,187 | 28,179   | 29,582 |
| 214  | U. SD   | 8,368    | 11,148   | 15,523   | 18,681   | 22,613   | 21,473 | 22,742   | 29,417 |
| 215  | U. South AL                                   | 17,692   | 19,371   | 20,096   | 19,431   | 19,308   | 25,883 | 28,466   | 29,197 |
| 216  | SUNY Health Science Ctr. Brooklyn             | 31,153 i | 30,680 i | 30,207 i | 29,732   | 31,064   | 29,809 | 32,299   | 29,184 |
| 217  | Rochester Institute of Technology             | 13,500   | 17,197   | 19,423   | 21,068   | 22,107   | 20,961 | 24,018   | 28,955 |
| 218  | NC Agricultural and Technical State U.        | 15,353   | 17,304   | 19,534   | 22,936   | 23,698   | 24,044 | 28,781   | 28,540 |
| 219  | U. MO-Kansas City                             | 24,060   | 31,104   | 31,968   | 30,780   | 26,016   | 26,870 | 27,509   | 27,500 |
| 220  | Morehouse School of Medicine                  | 23,956   | 27,154   | 33,317   | 30,652   | 28,378   | 27,886 | 27,077   | 27,392 |
| 221  | Creighton U.                                  | 18,982   | 24,116   | 25,451   | 27,022   | 25,615   | 28,374 | 26,872   | 27,104 |
| 222  | Air Force Institute of Technology             | 9,243    | 12,454   | 13,001   | 14,666   | 18,783   | 16,801 | 20,497   | 26,761 |
| 223  | Meharry Medical C.                            | 20,508   | 25,427   | 27,507   | 29,105   | 32,878   | 33,218 | 34,152   | 26,587 |
| 224  | Northern AZ U.                                | 17,263   | 17,446   | 19,967   | 22,870   | 27,632   | 26,566 | 25,820   | 26,183 |
| 225  | FL A&M U.                                     | 31,147   | 23,503   | 31,408   | 26,400   | 34,293   | 16,541 | 24,012   | 25,651 |
| 226  | Brigham Young U. all campuses                 | 21,228   | 22,557   | 23,565   | 23,961   | 25,973   | 26,653 | 25,664   | 25,497 |
| 227  | Stevens Institute of Technology               | 13,855 e | 18,334 i | 22,814   | 22,997   | 25,848   | 25,684 | 27,317   | 25,116 |
| 228  | San Francisco State U.                        | 14       | 12,500   | 42,903   | 23,655   | 27,333   | 20,069 | 21,191   | 25,065 |
| 229  | Kent State U. all campuses                    | 12,868   | 14,549   | 12,712   | 11,045   | 11,076   | 19,001 | 23,293   | 25,050 |
| 230  | U. NC Charlotte                               | 8,773    | 12,599   | 17,425   | 16,042   | 18,463   | 22,165 | 21,869   | 24,814 |
| 231  | East Carolina U.                              | 11,513   | 12,520   | 13,296   | 14,240   | 14,061   | 15,970 | 16,192   | 24,177 |
| 232  | IL Institute of Technology                    | 19,909   | 25,744   | 22,948   | 25,498   | 22,646   | 22,955 | 22,538   | 23,347 |
| 233  | Marshall U.                                   | 11,285   | 15,070   | 20,221   | 22,321   | 18,385   | 22,519 | 22,423   | 22,437 |
| 234  | U. of the VI                                  | 13,981   | 15,762   | 17,874   | 16,735   | 17,495   | 17,842 | 18,099   | 22,019 |
| 235  | Mercer U. all campuses                        | 12,998   | 14,996   | 18,437   | 20,042   | 19,529   | 18,096 | 19,624   | 21,858 |
| 236  | U. CA, Merced                                 | na       | na       | na       | 4,468    | 7,527    | 10,945 | 16,802   | 21,421 |
| 237  | U. Southern ME                                | 7,592 i  | 10,705 i | 13,818 i | 16,931 i | 20,045   | 34,799 | 27,232   | 20,957 |
| 238  | Catholic U. America, The                      | 22,883   | 24,475   | 23,610   | 21,489   | 17,662   | 19,919 | 20,375   | 20,942 |
| 239  | Northern IL U.                                | 10,366   | 12,368   | 11,687   | 11,239   | 16,627   | 16,710 | 14,948   | 20,644 |
| 240  | ID State U.                                   | 10,119   | 12,243   | 14,385   | 19,700   | 16,754   | 19,887 | 20,728   | 20,524 |
| 241  | SUNY C. of Environmental Science and Forestry | 26,337   | 26,783   | 19,419 i | 12,054   | 17,954 i | 23,854 | 26,359   | 20,513 |
| 242  | U. PR Mayaguez Campus                         | 19,939   | 20,029   | 16,686   | 20,492   | 21,080   | 19,813 | 20,094 i | 20,375 |
| 243  | U. North TX                                   | 13,227   | 13,990   | 11,958   | 12,617   | 14,819   | 14,207 | 15,932   | 19,552 |
| 244  | CA State Polytechnic U. San Luis Obispo       | 14,002   | 13,598   | 9,417    | 11,235   | 12,529   | 14,517 | 14,866   | 19,420 |
| 245  | U. MA Dartmouth                               | 15,030   | 16,476   | 18,074   | 19,452   | 19,171   | 19,538 | 20,431   | 19,343 |
| 246  | LA Tech U.                                    | 12,110   | 15,055   | 16,118   | 15,832   | 15,276   | 14,166 | 19,406   | 18,060 |
| 247  | Albany Medical C.                             | 13,104   | 13,394   | 15,562   | 15,465   | 16,227   | 15,029 | 15,108   | 17,776 |
| 248  | AL State U.                                   | 1,433    | 1,633    | 1,688    | 1,900    | 1,900    | 1,900  | 2,461    | 17,164 |
| 249  | Teachers C. Columbia U.                       | 10,409   | 9,603    | 9,684    | 10,669   | 11,411   | 12,585 | 15,198   | 16,919 |
| 250  | American U.                                   | 4,420    | 2,517    | 1,745    | 1,542    | 2,410    | 6,109  | 9,263    | 16,848 |
| 251  | Tuskegee U.                                   | 9,965    | 10,067   | 11,519   | 10,966   | 11,651   | 14,329 | 14,963   | 16,706 |

TABLE 27. R&amp;D expenditures at universities and colleges, ranked by FY 2009 R&amp;D expenditures: FY 2002–09

(Dollars in thousands)

| Rank | Institution                                  | 2002    | 2003     | 2004    | 2005    | 2006     | 2007   | 2008   | 2009    |
|------|--|---------|----------|---------|---------|----------|--------|--------|---------|
| 252  | U. NC Wilmington                             | 14,568  | 12,762   | 14,381  | 20,617  | 13,609   | 17,064 | 20,100 | 16,423  |
| 253  | TX State U. San Marcos                       | 8,109   | 7,621    | 9,130   | 7,261   | 7,034    | 7,890  | 11,792 | 15,742  |
| 254  | Clarkson U.                                  | 8,322 e | 7,466    | 14,703  | 13,826  | 16,143   | 16,976 | 17,654 | 14,929  |
| 255  | AL A&M U.                                    | 15,717  | 36,856   | 17,429  | 16,075  | 14,431   | 13,672 | 8,959  | 14,752  |
| 256  | Worcester Polytechnic Institute              | 10,493  | 12,357   | 14,045  | 14,679  | 14,483   | 13,409 | 14,912 | 14,663  |
| 257  | TX A&M U. Kingsville                         | 8,208   | 10,203   | 11,102  | 13,389  | 13,343   | 13,794 | 13,519 | 14,630  |
| 258  | SD School of Mines and Technology            | 9,692   | 10,853   | 10,626  | 13,347  | 12,589   | 14,480 | 16,503 | 14,373  |
| 259  | Southern Methodist U.                        | 9,774   | 9,890    | 10,432  | 11,839  | 12,475   | 13,381 | 19,530 | 14,338  |
| 260  | TN Technological U.                          | 9,823   | 9,609    | 8,779   | 9,312   | 9,575    | 12,226 | 11,742 | 13,959  |
| 261  | Cleveland State U.                           | 13,855  | 14,112   | 16,888  | 15,884  | 14,496   | 15,948 | 14,131 | 13,424  |
| 262  | Rosalind Franklin U. of Medicine and Science | 8,645   | 9,923    | 10,614  | 11,920  | 10,981   | 12,199 | 12,128 | 13,375  |
| 263  | Western MI U.                                | 19,023  | 21,571   | 13,912  | 17,518  | 18,005   | 17,182 | 14,617 | 13,301  |
| 264  | TX A&M U. Corpus Christi                     | 9,124   | 10,281   | 12,266  | 8,845   | 12,654   | 11,933 | 11,662 | 13,279  |
| 265  | Alcorn State U.                              | 5,809   | 7,619    | 7,622   | 6,256   | 6,593    | 9,056  | 11,665 | 13,064  |
| 266  | U. MO-St. Louis                              | 11,519  | 12,819   | 12,429  | 12,056  | 11,713   | 10,907 | 12,297 | 12,995  |
| 267  | Hampton U.                                   | 11,067  | 18,673   | 31,645  | 42,969  | 28,705   | 24,017 | 21,089 | 12,824  |
| 268  | CUNY Queens C.                               | 6,718   | 6,430    | 6,819   | 6,876   | 7,432    | 9,186  | 11,377 | 12,768  |
| 269  | CA State U. Long Beach                       | 8,026   | 13,732   | 9,877   | 9,594   | 10,322   | 13,867 | 14,971 | 12,665  |
| 270  | U. Denver                                    | 10,539  | 9,949    | 12,500  | 11,716  | 10,581   | 9,833  | 11,029 | 12,560  |
| 271  | U. Tulsa                                     | 11,603  | 11,527   | 15,375  | 12,740  | 12,358   | 14,735 | 14,270 | 12,525  |
| 272  | CA State U. Northridge                       | 10,619  | 11,638   | 10,305  | 8,767   | 7,490    | 12,412 | 12,793 | 12,486  |
| 273  | Morgan State U.                              | 1,674   | 7,493    | 8,580   | 9,544   | 13,523   | 11,257 | 12,336 | 12,351  |
| 274  | TN State U.                                  | 15,262  | 14,306   | 15,255  | 14,669  | 14,096   | 12,475 | 12,090 | 12,202  |
| 275  | Boise State U.                               | 6,446   | 7,583    | 9,126   | 9,162   | 7,848    | 10,947 | 11,222 | 11,955  |
| 276  | CA State U. Sacramento                       | 312 i   | 287 i    | 262 i   | 237 i   | 212 i    | 183    | 4,386  | 11,734  |
| 277  | Prairie View A&M U.                          | 10,444  | 11,193   | 10,989  | 11,810  | 11,444   | 12,019 | 10,786 | 11,545  |
| 278  | Baylor U.                                    | 3,868   | 4,203    | 5,242   | 6,364   | 6,133    | 8,951  | 9,867  | 11,427  |
| 279  | MO State U.                                  | 1,888   | 1,423    | 2,935   | 6,367   | 5,188    | 9,320  | 9,042  | 11,244  |
| 280  | Embry-Riddle Aeronautical U.                 | 5,102   | 6,641    | 8,558   | 13,325  | 10,628 i | 7,930  | 6,864  | 10,899  |
| 281  | Tarleton State U.                            | 7,871   | 8,534    | 7,194   | 8,512   | 8,069    | 9,151  | 8,857  | 10,804  |
| 282  | U.S. Naval Academy                           | 2,324   | 3,451    | 5,985   | 6,623   | 6,850    | 7,973  | 8,849  | 10,468  |
| 283  | Oakland U.                                   | 6,869   | 6,175    | 6,616   | 6,505   | 9,169    | 8,872  | 9,465  | 10,464  |
| 284  | U. NC Greensboro                             | 4,454   | 3,454    | 3,762   | 4,843   | 6,059    | 6,130  | 7,876  | 10,394  |
| 285  | FL Institute of Technology                   | 6,669   | 8,004    | 7,801   | 7,539   | 7,684    | 6,985  | 8,642  | 10,389  |
| 286  | Humboldt State U.                            | 5,871 i | 6,028 i  | 6,185 i | 6,342 i | 6,500    | 7,087  | 8,808  | 10,301  |
| 287  | Marquette U.                                 | 9,807   | 11,385   | 9,652   | 10,338  | 10,445   | 9,744  | 10,373 | 10,275  |
| 288  | Northeastern OH Universities C. of Medicine  | 4,525   | 4,364    | 5,601   | 5,703   | 5,294    | 4,984  | 9,165  | 10,077  |
| 289  | Duquesne U.                                  | 5,955   | 6,848    | 8,082   | 8,096   | 8,345    | 8,850  | 9,542  | 10,066  |
| 290  | Villanova U.                                 | 5,481 e | 6,479 i  | 7,477 i | 8,475 i | 9,473 i  | 10,473 | 9,484  | 9,919 i |
| 291  | CA State U. Fresno                           | 9,398   | 13,558   | 15,211  | 13,498  | 9,749    | 5,297  | 7,967  | 9,837   |
| 292  | U. HI Hilo                                   | 10,841  | 5,317    | 4,978   | 9,596   | 7,843    | 7,926  | 6,916  | 9,595   |
| 293  | Polytechnic U.                               | 10,915  | 11,271 i | 11,627  | 15,295  | 14,479   | 14,216 | 12,674 | 9,505   |

TABLE 27. R&amp;D expenditures at universities and colleges, ranked by FY 2009 R&amp;D expenditures: FY 2002–09

(Dollars in thousands)

| Rank | Institution                          | 2002     | 2003    | 2004    | 2005    | 2006    | 2007    | 2008   | 2009  |
|------|--------------------------------------|----------|---------|---------|---------|---------|---------|--------|-------|
| 294  | U.S. Military Academy                | 6,006 i  | 6,435 i | 6,864 i | 7,293 i | 7,722 i | 8,167   | 10,123 | 9,432 |
| 295  | DE State U.                          | 3,162    | 3,944   | 4,678 i | 5,412   | 7,016   | 7,418   | 8,052  | 9,335 |
| 296  | U. AR Little Rock                    | 2,088 e  | 24,284  | 4,127   | 4,345   | 9,331   | 9,598 i | 9,866  | 9,269 |
| 297  | East TN State U.                     | 11,701   | 12,971  | 7,788   | 8,098   | 7,943   | 8,020   | 8,237  | 9,189 |
| 298  | VA State U.                          | 7,144    | 7,209   | 5,953   | 5,048   | 8,189   | 8,170   | 8,282  | 9,056 |
| 299  | Seton Hall U.                        | 1,200    | 1,779   | 1,941   | 3,418   | 2,395   | 2,685   | 2,290  | 8,923 |
| 300  | Nova Southeastern U.                 | 3,327    | 4,752   | 5,139   | 5,789   | 6,445   | 6,697   | 7,545  | 8,872 |
| 301  | AR State U. main campus              | 1,278    | 2,634   | 4,572   | 4,035   | 6,007   | 7,494   | 6,816  | 8,622 |
| 302  | SC State U.                          | 2,931    | 3,225   | 3,548   | 3,796   | 3,796   | 3,796   | 7,608  | 8,535 |
| 303  | Western KY U.                        | 5,281    | 4,263   | 5,729   | 6,607   | 8,701   | 10,402  | 8,425  | 8,516 |
| 304  | Bowling Green State U. all campuses  | 5,327    | 7,336   | 8,271   | 9,746   | 9,912   | 9,120   | 10,712 | 8,396 |
| 305  | CA State U. San Bernardino           | 3,740    | 7,576   | 8,755   | 8,905   | 11,120  | 8,323   | 9,703  | 8,281 |
| 306  | CUNY Graduate Ctr.                   | 2,391    | 3,068   | 5,106   | 5,943   | 3,913   | 4,380   | 6,579  | 8,226 |
| 307  | CA State U. Los Angeles              | 7,933    | 7,073   | 8,728   | 10,130  | 8,956   | 10,053  | 8,957  | 8,186 |
| 308  | Lincoln U. (Jefferson City, MO)      | 3,291    | 2,601   | 2,181   | 2,656   | 5,395   | 5,573   | 6,263  | 8,011 |
| 309  | Clark Atlanta U.                     | 17,194   | 12,760  | 13,576  | 12,790  | 11,155  | 8,543   | 7,486  | 7,861 |
| 310  | CA State U. Fullerton                | 9,282    | 5,318   | 4,432   | 4,167   | 4,522   | 4,311   | 6,096  | 7,507 |
| 311  | U. MD Eastern Shore                  | 5,905    | 5,124   | 5,272   | 5,568   | 4,454   | 3,408   | 5,917  | 7,504 |
| 312  | Universidad Central del Caribe       | 7,103    | 8,274   | 9,797   | 9,181   | 8,790   | 9,446   | 8,243  | 7,484 |
| 313  | U. AR Pine Bluff                     | 5,976    | 6,543   | 6,246   | 6,685   | 6,774   | 5,831   | 7,238  | 7,422 |
| 314  | Stephen F. Austin State U.           | 5,582    | 4,954   | 3,663   | 4,144   | 8,171   | 6,957   | 6,742  | 7,271 |
| 315  | U. AK Anchorage all campuses         | 11,685 e | 12,326  | 13,285  | 13,594  | 8,844   | 7,122   | 6,270  | 7,224 |
| 316  | Wheeling Jesuit U.                   | 3,504 i  | 4,204 i | 4,904 i | 5,604 i | 6,304 i | 7,005   | 1,131  | 7,097 |
| 317  | Ponce School of Medicine             | 4,365    | 7,491   | 10,140  | 7,840   | 7,654   | 9,103   | 7,686  | 7,085 |
| 318  | Morehouse C.                         | 3,135 i  | 3,276 i | 3,417 i | 3,559   | 6,008   | 5,445   | 5,021  | 6,993 |
| 319  | U. TX-Pan American                   | 2,336    | 2,920   | 3,747   | 4,038   | 5,006   | 5,217   | 5,865  | 6,929 |
| 320  | Norfolk State U.                     | 4,967    | 4,532   | 6,200   | 6,758   | 5,144   | 6,491   | 7,893  | 6,878 |
| 321  | Southern U. Baton Rouge <sup>c</sup> | 6,310 i  | 5,314 i | 4,317   | 4,333 i | 4,350   | 5,590   | 6,701  | 6,865 |
| 322  | Fordham U.                           | 3,793    | 3,814   | 3,391   | 3,413   | 6,033   | 5,908   | 6,844  | 6,637 |
| 323  | Ball State U.                        | 4,008    | 3,878   | 7,483   | 8,490   | 8,625   | 7,913   | 8,464  | 6,621 |
| 324  | Western WA U.                        | 4,019    | 4,716   | 4,519   | 4,711   | 6,453   | 6,371   | 6,240  | 6,564 |
| 325  | Wesleyan U.                          | 5,614    | 6,682   | 7,741   | 8,036   | 8,170   | 7,878   | 7,076  | 6,170 |
| 326  | Clark U.                             | 3,418    | 5,638   | 5,638 e | 4,480   | 5,304   | 4,899   | 5,120  | 6,072 |
| 327  | MT Tech of the U. MT                 | 4,797    | 6,155   | 5,952   | 5,947   | 6,372   | 5,537   | 6,051  | 5,951 |
| 328  | U. GU                                | 4,571    | 6,989   | 9,458   | 8,531 i | 7,604   | 7,059   | 6,106  | 5,834 |
| 329  | Eastern MI U.                        | 3,164    | 4,051   | 3,266   | 5,910   | 3,580   | 3,027   | 4,341  | 5,757 |
| 330  | Xavier U. LA                         | 6,413    | 5,515   | 5,585   | 4,784 i | 3,982   | 4,394   | 5,253  | 5,690 |
| 331  | U. TX Brownsville                    | ne       | ne      | ne      | ne      | ne      | ne      | 5,500  | 5,654 |
| 332  | Chicago State U.                     | 1,297    | 1,155   | 1,493 i | 1,832   | 2,119   | 2,124   | 1,960  | 5,645 |
| 333  | U. of the Pacific                    | 1,891    | 1,877   | 2,961   | 3,750   | 4,161   | 4,131   | 5,946  | 5,528 |
| 334  | IL State U.                          | 3,848    | 3,963   | 4,498   | 5,203   | 4,874   | 4,831   | 6,111  | 5,397 |
| 335  | NC Central U.                        | 3,297 i  | 4,121 i | 4,945 i | 5,769 i | 6,597   | 4,337   | 6,323  | 5,379 |



TABLE 27. R&amp;D expenditures at universities and colleges, ranked by FY 2009 R&amp;D expenditures: FY 2002–09

(Dollars in thousands)

| Rank | Institution                          | 2002    | 2003    | 2004  | 2005    | 2006    | 2007    | 2008    | 2009    |
|------|--------------------------------------|---------|---------|-------|---------|---------|---------|---------|---------|
| 336  | Lamar U.                             | 4,030   | 4,029   | 3,365 | 3,375   | 3,277   | 3,695   | 4,692   | 5,376   |
| 337  | West TX A&M U.                       | 5,261   | 4,734   | 3,879 | 3,463   | 4,523   | 4,638   | 5,008   | 5,366   |
| 338  | James Madison U.                     | 2,867   | 4,484   | 5,442 | 5,009   | 4,799   | 5,455   | 5,235   | 5,305   |
| 339  | U. Baltimore                         | ne      | ne      | ne    | 7,754   | 7,856   | 1,169   | 4,700   | 5,295   |
| 340  | Fisk U.                              | 3,030   | 3,000   | 5,000 | 6,000   | 6,000   | 6,000   | 2,851   | 5,265   |
| 341  | KY State U.                          | 6,188   | 6,395   | 3,298 | 3,044   | 3,340   | 3,548   | 4,671   | 5,189   |
| 342  | C. Charleston                        | 3,295   | 3,716   | 4,875 | 4,433   | 5,719   | 5,308   | 5,397   | 4,941   |
| 343  | CA State U. Monterey Bay             | 1,911 e | 2,644   | 3,002 | 4,045   | 4,107   | 7,032   | 5,784   | 4,940   |
| 344  | Williams C.                          | 2,961   | 3,295   | 3,130 | 3,459   | 4,074   | 3,983   | 4,084   | 4,907   |
| 345  | U. North FL                          | 2,061   | 4,421   | 3,029 | 3,448   | 4,110   | 3,875   | 3,158   | 4,878   |
| 346  | Bryn Mawr C.                         | 3,502   | 4,705   | 5,664 | 4,400   | 4,254   | 3,881   | 2,974   | 4,822   |
| 347  | U. LA Monroe                         | 6,611 i | 5,849 i | 5,086 | 5,524   | 4,376   | 4,674   | 16,997  | 4,794   |
| 348  | Wellesley C.                         | 5,498 e | 5,733   | 5,714 | 4,252   | 4,032   | 4,634   | 4,561   | 4,715   |
| 349  | CUNY Brooklyn C.                     | 6,217   | 5,575   | 3,917 | 3,731   | 4,621   | 4,960   | 4,056   | 4,696   |
| 350  | CA State U. San Marcos               | ne      | ne      | ne    | ne      | ne      | ne      | 670     | 4,559   |
| 351  | Smith C.                             | 1,827   | 2,194   | 2,631 | 2,749   | 3,884   | 3,498   | 4,237   | 4,390   |
| 352  | U. Hartford                          | 1,130   | 1,336   | 1,136 | 1,360   | 1,633   | 1,923   | 2,427   | 4,338   |
| 353  | TX Christian U.                      | 3,300   | 3,693   | 3,960 | 4,216   | 4,090   | 3,924   | 3,568   | 4,318   |
| 354  | Kettering U.                         | 1,311   | 1,295   | 661   | 1,758   | 3,473   | 2,209   | 3,689   | 4,294   |
| 355  | Milwaukee School of Engineering      | 2,499   | 2,448   | 3,146 | 2,628   | 2,933   | 3,740   | 4,156   | 4,245   |
| 356  | TX Southern U.                       | 4,189   | 3,088   | 4,088 | 4,641   | 4,299   | 3,688   | 4,027   | 4,232   |
| 357  | Rowan U.                             | ne      | 6,011   | 6,177 | 4,944   | 4,581   | 4,772   | 4,658   | 4,219   |
| 358  | Langston U.                          | 3,975   | 4,332   | 3,578 | 4,371   | 4,416   | 4,405   | 4,025   | 4,114   |
| 359  | Santa Clara U.                       | 3,024 i | 3,364 i | ne    | 3,613 i | 3,700 i | 3,814 i | 3,986   | 4,066   |
| 360  | Dillard U.                           | 528     | 668     | 679   | 1,401 i | 2,123 i | 2,846   | 1,962   | 4,059   |
| 361  | Towson U.                            | 2,449   | 1,265   | 614   | 2,041   | 1,038   | 1,098   | 2,357   | 4,025   |
| 362  | WV State U.                          | 519 i   | 975 i   | 1,433 | 2,537   | 2,467   | 2,765   | 4,016   | 4,017   |
| 363  | Alfred U. all campuses               | 6,916   | 6,360   | 6,395 | 8,239   | 6,347   | 5,474   | 5,478   | 3,953   |
| 364  | U. WI Stevens Point                  | 1,849   | 1,980   | 2,042 | 1,926   | 2,335   | 3,077   | 3,233   | 3,921   |
| 365  | FL Gulf Coast U.                     | ne      | ne      | 1,407 | 2,678   | 3,133   | 3,479   | 3,344   | 3,915   |
| 366  | Bucknell U.                          | 1,900   | 2,123   | 1,817 | 1,820   | 2,841   | 1,744   | 2,193   | 3,850   |
| 367  | U. WI Superior                       | 889     | 1,057   | 1,136 | 1,140   | 1,844   | 2,501   | 2,178   | 3,849   |
| 368  | Gallaudet U.                         | 1,950   | 2,013   | 1,804 | 2,202   | 2,013   | 3,520   | 3,679 i | 3,848 i |
| 369  | Grand Valley State U.                | 2,374   | 2,237   | 4,408 | 3,354   | 3,375   | 4,414   | 6,178   | 3,846   |
| 370  | U. DC                                | 4,223   | 4,125   | 4,693 | 4,426   | 5,065   | 5,165   | 5,629   | 3,818   |
| 371  | Claremont Graduate U.                | 1,949   | 1,652   | 2,295 | 2,677   | 3,100   | 3,121   | 3,482   | 3,642 i |
| 372  | CUNY John Jay C. of Criminal Justice | 844     | 930     | 900   | 932     | 779     | 2,259   | 2,964   | 3,461   |
| 373  | Midwestern U. (Chicago, IL)          | 2,562   | 2,725   | 2,816 | 3,204   | 2,786   | 2,358   | 2,697   | 3,457   |
| 374  | Elizabeth City State U.              | 1,058   | 1,103   | 1,044 | 929     | 703     | 1,892   | 2,979   | 3,421   |
| 375  | Palmer C. of Chiropractic            | ne      | ne      | ne    | ne      | ne      | ne      | 3,340   | 3,415   |
| 376  | CUNY C. Staten Island                | 1,944   | 2,540   | 2,730 | 2,577   | 2,282   | 3,494   | 3,027   | 3,341   |
| 377  | Clafin U.                            | 203     | 293     | 255   | 222     | 930     | 1,261 i | 1,592   | 3,328   |

TABLE 27. R&amp;D expenditures at universities and colleges, ranked by FY 2009 R&amp;D expenditures: FY 2002–09

(Dollars in thousands)

| Rank | Institution                         | 2002    | 2003    | 2004    | 2005  | 2006  | 2007    | 2008  | 2009    |
|------|-------------------------------------|---------|---------|---------|-------|-------|---------|-------|---------|
| 378  | Sam Houston State U.                | 2,976   | 2,404 i | 1,832 i | 1,258 | 1,958 | 2,500   | 3,049 | 3,313   |
| 379  | U. West FL                          | 8,652   | 15,354  | 7,805   | 9,712 | 4,429 | 4,840   | 4,337 | 3,274   |
| 380  | Ft. Valley State U.                 | 2,985   | 2,892   | 2,596   | 2,497 | 2,570 | 2,610   | 3,311 | 3,262   |
| 381  | Central State U.                    | 966 i   | 1,169 i | 1,372 i | 1,579 | 2,320 | 2,320   | 2,553 | 3,244   |
| 382  | DePaul U.                           | 2,389   | 3,086   | 3,748   | 4,321 | 3,957 | 2,839   | 2,675 | 3,215   |
| 383  | St. Cloud State U.                  | 2,197 i | 2,329   | 2,005   | 2,657 | 2,224 | 2,656   | 3,543 | 3,153   |
| 384  | MN State U. Mankato                 | 1,054   | 768     | 929     | 549   | 880   | 964     | 1,521 | 3,133   |
| 385  | Central WA U.                       | 1,738   | 2,698   | 3,134   | 1,893 | 2,183 | 2,431   | 3,025 | 3,131   |
| 386  | U. TX Tyler                         | ne      | ne      | ne      | 440   | 795   | 1,395   | 3,393 | 3,078   |
| 387  | Calvin C.                           | 1,509   | 1,714   | 1,907   | 1,857 | 1,540 | 2,063   | 3,343 | 3,061   |
| 388  | U. WI La Crosse                     | 1,939   | 1,483   | 1,963   | 3,246 | 2,838 | 3,414   | 2,949 | 3,010   |
| 389  | Long Island U. all campuses         | 1,477   | 1,769   | 1,377   | 1,684 | 2,880 | 2,853 i | 2,825 | 2,955 i |
| 390  | Spelman C.                          | 3,082   | 2,298   | 2,481   | 2,759 | 3,084 | 3,741   | 2,005 | 2,944   |
| 391  | Appalachian State U.                | 781     | 986     | 555     | 1,076 | 2,158 | 2,912   | 3,586 | 2,937   |
| 392  | U. NC Asheville                     | 1,232   | 1,108   | 1,644   | 3,021 | 3,192 | 5,202   | 4,039 | 2,933   |
| 393  | St. Francis U. (Loretto, PA)        | ne      | ne      | ne      | 4,981 | 4,114 | 3,677   | 3,147 | 2,915   |
| 394  | Barnard C.                          | 1,064   | 1,516   | 1,516 e | 3,068 | 2,742 | 2,764   | 2,823 | 2,899   |
| 395  | Central MI U.                       | 2,252   | 2,339   | 5,681   | 4,938 | 4,033 | 4,512   | 4,580 | 2,870   |
| 396  | U. Richmond                         | 1,786   | 1,470   | 1,625   | 2,097 | 1,923 | 1,958   | 2,823 | 2,863   |
| 397  | CA State U. East Bay                | 2,455   | 1,559   | 2,160   | 3,259 | 2,833 | 3,509   | 2,870 | 2,854   |
| 398  | CA State U. Dominguez Hills         | 3,970   | 4,503   | 5,320   | 3,088 | 3,190 | 6,016   | 3,506 | 2,836   |
| 399  | Carleton C.                         | 1,688   | 1,965   | 1,897   | 2,039 | 1,785 | 1,852   | 1,942 | 2,829   |
| 400  | Albany C. of Pharmacy               | 906     | 894     | 855     | 2,565 | 2,307 | 3,248   | 3,486 | 2,808   |
| 401  | Franklin & Marshall C.              | 989     | 1,028   | 1,300   | 2,225 | 1,645 | 1,993   | 2,114 | 2,801   |
| 402  | Amherst C.                          | 2,115   | 2,115 e | 2,604   | 2,725 | 3,388 | 2,926   | 3,364 | 2,796   |
| 403  | Tougaloo C.                         | 898 i   | 789 i   | 680 i   | 571 i | 461   | 1,675   | 2,381 | 2,783   |
| 404  | Pomona C.                           | 2,063   | 1,962   | 1,996   | 2,153 | 2,584 | 3,108   | 3,288 | 2,748   |
| 405  | Rose-Hulman Institute of Technology | 7,912   | 13,201  | 6,388   | 4,914 | 4,700 | 3,271   | 3,478 | 2,744   |
| 406  | Mt. Holyoke C.                      | 2,644   | 3,174   | 2,877   | 3,179 | 2,563 | 3,127   | 3,044 | 2,720   |
| 407  | CUNY Herbert H. Lehman C.           | 2,955   | 3,981   | 3,291   | 4,019 | 4,476 | 4,852   | 3,498 | 2,696   |
| 408  | Western Carolina U.                 | 653     | 577     | 2,414   | 1,516 | 1,905 | 2,602   | 3,329 | 2,693   |
| 409  | Harvey Mudd C.                      | 3,941 i | 3,062 i | 2,180 e | 1,738 | 2,301 | 2,739   | 3,005 | 2,691   |
| 410  | Sul Ross State U.                   | 767     | 838     | 1,058   | 2,375 | 2,676 | 3,056   | 2,542 | 2,671   |
| 411  | SUNY C. of Optometry                | 1,750   | 3,187   | 2,435   | 2,481 | 1,913 | 2,231   | 2,238 | 2,670   |
| 412  | Occidental C.                       | 2,503   | 2,633   | 2,371 i | 2,109 | 1,449 | 1,652   | 2,110 | 2,625   |
| 413  | Colgate U.                          | 1,544   | 1,425   | 1,927   | 1,308 | 1,837 | 2,217   | 2,562 | 2,569   |
| 414  | Macalester C.                       | 3,024   | 2,091   | 2,371   | 2,081 | 2,351 | 2,349   | 2,457 | 2,560   |
| 415  | Northwest Indian C.                 | ne      | ne      | ne      | ne    | ne    | ne      | ne    | 2,491   |
| 416  | Middle TN State U.                  | 479     | 2,219   | 2,421   | 2,166 | 2,015 | 2,135   | 1,590 | 2,482   |
| 417  | Fairfield U.                        | 810     | 1,024   | 1,926   | 1,897 | 1,806 | 2,148   | 2,651 | 2,422   |
| 418  | U. Northern CO                      | 1,376   | 2,240   | 1,966   | 2,269 | 2,566 | 1,822   | 2,039 | 2,387   |
| 419  | La Salle U.                         | 20      | 104     | 260     | ne    | 243   | 2,758   | 2,920 | 2,359   |

TABLE 27. R&amp;D expenditures at universities and colleges, ranked by FY 2009 R&amp;D expenditures: FY 2002–09

(Dollars in thousands)

| Rank | Institution                             | 2002    | 2003    | 2004    | 2005    | 2006    | 2007    | 2008  | 2009  |
|------|---|---------|---------|---------|---------|---------|---------|-------|-------|
| 420  | SUNY C. Buffalo                         | 1,969   | 2,610   | 2,375   | 1,977   | 1,699   | 1,292   | 1,625 | 2,327 |
| 421  | Hope C.                                 | 1,514   | 1,457   | 2,213   | 2,060   | 2,926   | 2,603   | 2,198 | 2,321 |
| 422  | Shaw U.                                 | 874 i   | 1,261   | 1,270   | 1,864   | 1,815   | 1,826   | 2,090 | 2,314 |
| 423  | Loyola Marymount U.                     | ne      | 674     | 736     | 621     | 1,599   | 1,597   | 1,708 | 2,291 |
| 424  | Southern CT State U.                    | 361     | 2,911   | 424     | 2,671   | 2,295 i | 1,918   | 3,448 | 2,273 |
| 425  | Swarthmore C.                           | 1,574   | 1,717   | 2,200   | 1,992   | 2,385   | 1,449   | 1,738 | 2,217 |
| 426  | New School, The                         | 5,791 e | 3,435   | 5,642   | 5,889   | 6,950   | 7,795   | 2,703 | 2,212 |
| 427  | TX Woman's U.                           | 2,822   | 2,932   | 2,120   | 1,871   | 1,975   | 2,047   | 2,253 | 2,211 |
| 428  | NY Institute of Technology all campuses | 380     | 1,928 i | 3,476   | 3,505   | 3,613   | 2,708   | 2,061 | 2,197 |
| 429  | U. New England                          | ne      | ne      | ne      | ne      | 1,528   | 2,154   | 1,743 | 2,162 |
| 430  | Pittsburg State U.                      | 1,951   | 1,894   | 2,101   | 2,522   | 2,810   | 2,533   | 2,065 | 2,161 |
| 431  | U. Northern IA                          | 2,254   | 1,821   | 1,424   | 1,353   | 1,205   | 3,455   | 2,960 | 2,160 |
| 432  | St. Joseph's U.                         | 2,703   | 2,660   | 3,250   | 3,195   | 3,037   | 2,930   | 2,215 | 2,129 |
| 433  | Youngstown State U.                     | 1,259   | 1,398   | 1,831   | 1,382   | 1,308   | 611     | 1,193 | 2,081 |
| 434  | NM Highlands U.                         | 2,706   | 2,598   | 2,032   | 1,202   | 1,419   | 1,083   | 1,497 | 2,066 |
| 435  | TX A&M U. Commerce                      | 263     | 303     | 267     | 608     | 858     | 1,616   | 1,653 | 2,052 |
| 436  | U. San Diego                            | 2,686   | 1,046   | 895     | 1,683   | 499     | 667     | 621   | 2,001 |
| 437  | Eastern WA U.                           | 2,275   | 1,156   | 1,339   | 1,711   | 1,999   | 2,136   | 2,277 | 1,989 |
| 438  | CA State U. Bakersfield                 | 4,344 i | 4,985 i | 5,626 i | 6,268   | 6,379   | 1,833   | 1,873 | 1,985 |
| 439  | U. PR Humacao                           | ne      | ne      | 3,382   | 3,540   | 4,429   | 5,220   | 2,124 | 1,961 |
| 440  | Bowdoin C.                              | 1,176   | 1,673   | 2,073   | 2,254   | 2,281   | 2,186   | 1,942 | 1,915 |
| 441  | SUNY C. Geneseo                         | 682     | 1,366   | 862     | 951     | 1,036   | 1,743   | 2,139 | 1,912 |
| 442  | CA State U. Chico                       | 5,486   | 4,427   | 4,500 e | 2,620   | 2,208 i | 1,796 i | 1,384 | 1,889 |
| 443  | Davidson C.                             | 292 i   | 293 i   | 294 i   | 295 i   | 296     | 852     | 1,239 | 1,873 |
| 444  | Haverford C.                            | 1,215   | 1,428   | 1,679   | 1,259   | 967     | 1,182   | 1,397 | 1,870 |
| 445  | Union C. (Schenectady, NY)              | 2,316   | 2,086   | 4,068   | 2,571   | 1,992   | 2,086   | 2,557 | 1,865 |
| 446  | Furman U.                               | 1,414   | 1,136   | 1,556   | 1,477   | 1,433   | 1,042   | 1,359 | 1,855 |
| 447  | Lawrence Technological U.               | 539     | 471     | 655     | 917     | 2,137   | 2,001   | 1,689 | 1,855 |
| 448  | Middlebury C.                           | 1,587   | 1,587 e | 1,647 i | 1,707 i | 1,767 i | 1,830   | 1,789 | 1,852 |
| 449  | Arcadia U.                              | ne      | ne      | ne      | 324 i   | 334 i   | 2,450   | 2,426 | 1,849 |
| 450  | Morehead State U.                       | 1,355 i | 1,487   | 1,443   | 2,254   | 1,332   | 1,758   | 2,822 | 1,777 |
| 451  | Northern KY U.                          | 169     | 434     | 876     | 1,368   | 1,820   | 1,584   | 1,659 | 1,769 |
| 452  | Western IL U.                           | 7,042   | 1,350   | 1,404   | 1,190   | 1,154   | 1,485   | 1,597 | 1,742 |
| 453  | Montclair State U.                      | 889     | 1,008 i | 1,128   | 1,511   | 1,693   | 1,341   | 1,405 | 1,733 |
| 454  | Black Hills State U.                    | ne      | ne      | 1,184   | 1,566   | 2,628   | 2,935   | 2,539 | 1,719 |
| 455  | Murray State U.                         | 2,112   | 2,778   | 4,059   | 3,506   | 3,364   | 2,555   | 2,335 | 1,719 |
| 456  | CA State Polytechnic U. Pomona          | 2,806   | 3,922   | 4,059   | 2,765   | 2,502   | 2,466   | 1,750 | 1,682 |
| 457  | U. of the Sciences Philadelphia         | 833     | 453     | 544     | 704     | 1,260   | 1,449   | 1,777 | 1,673 |
| 458  | GA Southern U.                          | 1,127   | 2,488   | 2,042   | 2,078   | 1,812   | 1,789   | 1,511 | 1,656 |
| 459  | Savannah State U.                       | 2,206   | 2,150 i | 2,094   | 2,421   | 2,342   | 2,301   | 1,902 | 1,651 |
| 460  | Fayetteville State U.                   | 311     | 586     | 166     | 821     | 632     | 1,743   | 1,304 | 1,613 |
| 461  | Southeastern LA U.                      | 836     | 900     | 1,681   | 1,714   | 2,150   | 1,650   | 2,302 | 1,609 |

TABLE 27. R&amp;D expenditures at universities and colleges, ranked by FY 2009 R&amp;D expenditures: FY 2002–09

(Dollars in thousands)

| Rank | Institution                             | 2002    | 2003    | 2004    | 2005  | 2006  | 2007  | 2008  | 2009    |
|------|---|---------|---------|---------|-------|-------|-------|-------|---------|
| 462  | Bradley U.                              | 1,928   | 1,755   | 1,638   | 1,606 | 1,905 | 1,860 | 1,760 | 1,598   |
| 463  | New England C. of Optometry             | 2,154   | 2,166   | 2,297   | 1,870 | 1,711 | 1,356 | 1,604 | 1,596   |
| 464  | U. WI Eau Claire                        | 839     | 1,131   | 1,056   | 1,146 | 1,154 | 1,327 | 1,040 | 1,589   |
| 465  | Monmouth U.                             | 85      | 316 i   | 547 i   | 779   | 1,693 | 1,766 | 1,545 | 1,576   |
| 466  | Nicholls State U.                       | 820     | 690     | 1,075   | 1,475 | 1,121 | 922   | 841   | 1,572   |
| 467  | Western U. of Health Sciences           | 1,132   | 1,005   | 1,330   | 946   | 1,575 | 909   | 1,217 | 1,572   |
| 468  | Rider U.                                | 939     | 912     | 1,276   | 1,096 | 1,287 | 1,330 | 1,410 | 1,550   |
| 469  | St. John's U. (Jamaica, NY)             | 1,313 i | 1,442 i | 1,571 i | 1,702 | 1,538 | 1,783 | 1,657 | 1,548   |
| 470  | U. Central AR                           | 2,306   | 3,229   | 3,559   | 3,950 | 7,002 | 7,036 | 1,638 | 1,515   |
| 471  | IN State U. all campuses                | 1,220   | 1,369   | 1,680   | 1,473 | 2,271 | 1,697 | 1,689 | 1,503   |
| 472  | U. AK Southeast all campuses            | 868 e   | 1,171   | 968     | 639   | 720   | 1,087 | 2,078 | 1,496   |
| 473  | John Bastyr C. of Naturopathic Medicine | ne      | ne      | ne      | ne    | ne    | ne    | ne    | 1,485   |
| 474  | West Chester U. PA                      | 1,115   | 883     | 1,956   | 457   | 244   | 762   | 2,454 | 1,483   |
| 475  | Dickinson C.                            | 1,475   | 1,550   | 1,608   | 1,163 | 847   | 1,076 | 1,311 | 1,479   |
| 476  | SUNY C. Plattsburgh                     | 1,061   | 1,494   | 1,224   | 1,823 | 1,985 | 1,190 | 425   | 1,464   |
| 477  | Hobart and William Smith Colleges       | ne      | ne      | ne      | ne    | ne    | 685   | 1,443 | 1,457   |
| 478  | Coastal Carolina U.                     | 1,100   | 940     | 1,260   | 656   | 1,210 | 1,095 | 1,969 | 1,444   |
| 479  | Colby C.                                | 2,929   | 1,294   | 995     | 1,241 | 1,482 | 1,131 | 1,216 | 1,433   |
| 480  | Northwestern Health Sciences U.         | ne      | ne      | ne      | ne    | 820   | 1,289 | 1,361 | 1,423   |
| 481  | U. Redlands                             | 2,728   | 1,848   | 2,038   | 1,413 | 1,172 | 1,206 | 1,190 | 1,422   |
| 482  | Lafayette C.                            | 1,344   | 2,065   | 1,806   | 1,610 | 1,612 | 1,472 | 1,785 | 1,411   |
| 483  | Skidmore C.                             | 519     | 632     | 785     | 1,138 | 772   | 726   | 782   | 1,411   |
| 484  | Governors State U.                      | 188 i   | 201 i   | 214 i   | 237   | 877   | 1,336 | 1,373 | 1,400   |
| 485  | U. Detroit Mercy                        | 746     | 548     | 548 e   | 507 i | 466   | 480 i | ne    | 1,392   |
| 486  | Salus U. <sup>d</sup>                   | 992     | 1,226   | 1,509   | 1,149 | 1,642 | 1,587 | 1,851 | 1,380   |
| 487  | Pace U. all campuses                    | 425     | 425 e   | 1,099   | 1,053 | 566   | 718   | 1,642 | 1,376   |
| 488  | U. IL Springfield                       | 2,324   | 1,324   | 1,491   | 1,208 | 1,083 | 1,321 | 1,622 | 1,347   |
| 489  | Hamilton C. (Clinton, NY)               | 1,821   | 1,459   | 1,393   | 1,742 | 1,504 | 1,907 | 1,261 | 1,344   |
| 490  | Touro U.-CA                             | ne      | ne      | ne      | ne    | ne    | ne    | ne    | 1,305   |
| 491  | C. of the Holy Cross                    | 532     | 490     | 683     | 505   | 1,254 | 987   | 883   | 1,287   |
| 492  | Chapman U.                              | 1,068   | 1,016   | 965     | 839   | 833   | 706   | 370   | 1,286   |
| 493  | U. San Francisco                        | 695 i   | 690     | 1,163   | 1,082 | 798   | 1,096 | 1,390 | 1,281   |
| 494  | Benedict C.                             | 1,061   | 1,071   | 1,035   | 1,494 | 1,314 | 1,604 | 1,352 | 1,279   |
| 495  | Trinity U.                              | 474     | 935     | 1,428   | 1,386 | 1,206 | 1,244 | 1,530 | 1,250   |
| 496  | Lewis & Clark C.                        | 593     | 622     | 399     | 479   | 854   | 1,048 | 1,113 | 1,247 i |
| 497  | U. PR Cayey                             | ne      | ne      | ne      | ne    | ne    | 411   | 1,057 | 1,237   |
| 498  | Northwestern State U.                   | 416 i   | 427 i   | 438 i   | 449 i | 460   | 371   | 1,175 | 1,227   |
| 499  | TX A&M International U.                 | ne      | ne      | ne      | 155   | ne    | ne    | 196   | 1,227   |
| 500  | Philadelphia C. of Osteopathic Medicine | 891     | 836     | 961     | 973   | 1,034 | 1,754 | 1,390 | 1,223   |
| 501  | Albany State U.                         | 1,987   | 2,178   | 2,619   | 2,091 | 1,455 | 1,331 | 2,441 | 1,206   |
| 502  | Angelo State U.                         | ne      | ne      | ne      | ne    | 677   | 678   | 901   | 1,155   |
| 503  | Indiana U. PA all campuses              | 794     | 841     | 2,368   | 684   | 368   | 410   | 932   | 1,150   |

TABLE 27. R&amp;D expenditures at universities and colleges, ranked by FY 2009 R&amp;D expenditures: FY 2002–09

(Dollars in thousands)

| Rank | Institution                                | 2002    | 2003    | 2004    | 2005    | 2006  | 2007    | 2008  | 2009  |
|------|--|---------|---------|---------|---------|-------|---------|-------|-------|
| 504  | Washington and Jefferson C.                | ne      | ne      | ne      | ne      | ne    | ne      | 874   | 1,131 |
| 505  | Bates C.                                   | 1,217   | 1,340   | 1,006   | 1,077   | 1,549 | 1,020   | 915   | 1,117 |
| 506  | CT C.                                      | 960 i   | 1,092 i | 1,224 i | 1,358   | 1,127 | 1,020   | 867   | 1,112 |
| 507  | Seattle U.                                 | 622 i   | 681 i   | 744     | 764     | 930 i | 1,096 i | 1,262 | 1,107 |
| 508  | SUNY C. Old Westbury                       | 1,214   | 1,295   | 1,326   | 1,565   | 1,765 | 1,682   | 1,443 | 1,107 |
| 509  | Reed C.                                    | 1,145   | 1,129   | 1,295   | 1,237   | 1,118 | 1,220   | 1,291 | 1,096 |
| 510  | Ithaca C.                                  | 2,513   | 2,187   | 2,152   | 1,814   | 1,657 | 1,434   | 1,457 | 1,091 |
| 511  | VA Military Institute                      | 695     | 904     | 543     | 662     | 815   | 659     | 979   | 1,091 |
| 512  | Eastern KY U.                              | 666     | 506     | 345     | 486     | 894   | 614     | 540   | 1,087 |
| 513  | Plymouth State U.                          | ne      | ne      | ne      | ne      | ne    | ne      | 1,193 | 1,087 |
| 514  | U. West GA                                 | 1,029   | 1,034   | 1,027   | 1,327   | 1,042 | 1,172   | 1,462 | 1,072 |
| 515  | Siena C.                                   | ne      | ne      | ne      | ne      | 630 i | 585 i   | 567   | 1,069 |
| 516  | C. NJ, The                                 | 2,686   | 2,313 i | 1,940 i | 1,567 i | 1,193 | 688     | 772   | 1,067 |
| 517  | St. Olaf C.                                | 847     | 710     | 516     | 643     | 854   | 1,060   | 1,321 | 1,067 |
| 518  | U. WI Oshkosh                              | 662     | 942     | 1,252   | 1,067   | 1,115 | 1,059   | 1,516 | 1,067 |
| 519  | MS Valley State U.                         | 1,030   | 636     | 493     | 606     | 794   | 844     | 951   | 1,063 |
| 520  | Eastern IL U.                              | 252 i   | 378 i   | 504 i   | 630 i   | 756 i | 885     | 713   | 1,061 |
| 521  | CUNY Baruch C.                             | 762     | 507     | 687     | 896     | 1,118 | 1,030   | 1,161 | 1,047 |
| 522  | Christopher Newport U.                     | ne      | 2,055   | 2,029   | 1,941   | 789   | 709     | 805   | 1,038 |
| 523  | Pacific Lutheran U.                        | 327 i   | 370 i   | 413 i   | 456 i   | 499 i | 547     | 440   | 1,034 |
| 524  | SUNY C. Oswego                             | 1,112   | 1,207   | 2,055   | 1,010   | 1,024 | 1,093   | 1,026 | 1,020 |
| 525  | Vassar C.                                  | 1,554 i | 1,392 i | 1,230 i | 1,068 i | 902   | 600     | 1,052 | 1,018 |
| 526  | Haskell Indian Nations U.                  | ne      | ne      | ne      | ne      | ne    | ne      | 687   | 1,006 |
| 527  | Hampshire C.                               | 3,224   | 2,754   | 3,051   | 2,723   | 1,145 | 1,118   | 1,015 | 994   |
| 528  | Kansas City U. of Medicine and Biosciences | 1,436   | 1,020   | 1,098   | 944     | 1,183 | 1,267   | 1,394 | 992   |
| 529  | Marist C.                                  | ne      | ne      | ne      | 520 i   | 545 i | ne      | 927   | 989   |
| 530  | U. WI Green Bay                            | 900     | 1,122   | 1,739   | 1,416   | 1,328 | 1,031   | 1,056 | 979   |
| 531  | Willamette U.                              | 254     | 276     | 228     | 154     | 375   | 377     | 455   | 951   |
| 532  | U. Central OK                              | 810     | 180     | 157     | 216     | 841   | 406     | 865   | 935   |
| 533  | U. Portland                                | 639     | 543     | 634     | 477     | 801   | 887     | 722   | 905   |
| 534  | Trinity C. (Hartford, CT)                  | 464     | 856     | 768     | 1,215   | 593   | 951     | 669   | 885   |
| 535  | C. Wooster                                 | 362     | 413     | 281 e   | 570     | 966   | 944     | 611   | 880   |
| 536  | Barry U.                                   | ne      | ne      | ne      | ne      | ne    | ne      | 697   | 875   |
| 537  | Oberlin C.                                 | 439     | 471     | 381     | 1,059   | 810   | 773     | 726   | 869   |
| 538  | Hofstra U.                                 | 661 e   | 678 i   | 695 i   | 712 i   | 730   | 687     | 651   | 868   |
| 539  | Des Moines U.                              | 767 e   | 676     | 676 e   | 787 i   | 899   | 796     | 1,002 | 867   |
| 540  | Northeastern IL U.                         | 216     | 168     | 206     | 227     | 239   | 1,005   | 1,278 | 834   |
| 541  | Agnes Scott C.                             | ne      | ne      | ne      | ne      | ne    | ne      | ne    | 830   |
| 542  | Northern MI U.                             | 376 i   | 400 i   | 424 i   | 448 i   | 472 i | 500     | 944   | 830   |
| 543  | Mercyhurst C.                              | ne      | ne      | ne      | ne      | 819   | 767     | 609   | 825   |
| 544  | U. of St. Thomas (St. Paul, MN)            | 243     | 192     | 281     | 324     | 368   | 536     | 833   | 818   |
| 545  | Augustana C. (Sioux Falls, SD)             | 304     | 324     | 288     | 644     | 892   | 807     | 843   | 811   |

TABLE 27. R&amp;D expenditures at universities and colleges, ranked by FY 2009 R&amp;D expenditures: FY 2002–09

(Dollars in thousands)

| Rank | Institution                         | 2002  | 2003    | 2004    | 2005    | 2006    | 2007  | 2008    | 2009  |
|------|-------------------------------------|-------|---------|---------|---------|---------|-------|---------|-------|
| 546  | Western States Chiropractic C.      | ne    | ne      | ne      | ne      | ne      | ne    | 907     | 810   |
| 547  | McNeese State U.                    | 709   | 743     | 834     | 614     | 392     | 316   | 691     | 807   |
| 548  | Washington and Lee U.               | 464 i | 473 i   | 482 i   | 501     | 402     | 329   | 272     | 804   |
| 549  | U. TX of the Permian Basin          | ne    | ne      | ne      | ne      | ne      | 995   | 2,556   | 797   |
| 550  | Valparaiso U.                       | 349   | 356     | 551     | 488     | 699     | 763   | 866     | 780   |
| 551  | Weber State U.                      | ne    | ne      | ne      | ne      | ne      | ne    | ne      | 777   |
| 552  | U. Houston-Clear Lake               | 8,362 | 1,224   | 754     | 743     | 789     | 851   | 709     | 769   |
| 553  | Claremont McKenna C.                | ne    | ne      | ne      | ne      | ne      | 678 i | 669 i   | 741 i |
| 554  | Universidad del Este                | ne    | ne      | ne      | ne      | 432     | 407   | 416     | 709   |
| 555  | Gonzaga U.                          | ne    | 0       | ne      | ne      | ne      | ne    | 844     | 705   |
| 556  | Truman State U.                     | 487   | 521     | 588     | 524     | 672     | 593   | 760     | 701   |
| 557  | Drake U.                            | 1,053 | 1,053 e | 1,255   | 901     | 966     | 622   | 730     | 700   |
| 558  | Philadelphia U.                     | ne    | ne      | ne      | 227 i   | 858     | 848   | 645     | 700   |
| 559  | Mesa State C.                       | ne    | ne      | ne      | ne      | ne      | ne    | 657     | 687   |
| 560  | U. WI Platteville                   | 281 i | 336 i   | 391 i   | 447     | 605     | 540   | 511     | 685   |
| 561  | Lincoln U. (Lincoln University, PA) | 718   | 704     | 526     | 526     | 606     | 450   | 948     | 683   |
| 562  | Grambling State U.                  | 2,452 | 2,218   | 1,934   | 1,784   | 567     | 428   | 643     | 682 i |
| 563  | Evergreen State C.                  | 441   | 511     | 354     | 647     | 548     | 739   | 636     | 672   |
| 564  | Armstrong Atlantic State U.         | ne    | ne      | ne      | ne      | ne      | ne    | ne      | 671 e |
| 565  | Loyola U. New Orleans               | 486 i | 513 i   | 540 i   | 567     | 372     | 408   | 828     | 662   |
| 566  | Providence C.                       | 223   | 223 e   | 286     | 346     | 432     | 558   | 555     | 661   |
| 567  | Millsaps C.                         | ne    | ne      | ne      | 150 i   | 471     | 588   | 589     | 653 i |
| 568  | Dowling C.                          | ne    | ne      | ne      | ne      | ne      | 1,566 | 1,109 i | 651   |
| 569  | SUNY C. Brockport                   | 739 i | 757     | 755     | 659     | 839     | 1,025 | 706     | 651   |
| 570  | Hendrix C.                          | 530 i | 580 i   | 631     | 550     | 685     | 375   | 677     | 648   |
| 571  | Sinte Gleska U.                     | ne    | ne      | ne      | 732     | 793     | 913   | 1,208   | 645   |
| 572  | Northeastern State U.               | 1,314 | 1,283   | 1,035 i | 786     | 1,031   | 554   | 458     | 636   |
| 573  | Roger Williams U. Bristol           | ne    | ne      | 352     | 849     | 1,050   | 867   | 945     | 636   |
| 574  | MT State U. Billings                | ne    | ne      | ne      | 694 i   | 919     | 846   | 1,107   | 629   |
| 575  | Roanoke C.                          | ne    | 476     | 554     | 518     | 741     | 402   | 399     | 629   |
| 576  | Grinnell C.                         | 1,098 | 977     | 964     | 1,079   | 699     | 787   | 955     | 627   |
| 577  | A.T. Still U. of Health Sciences    | 1,134 | 691     | 839     | 1,206   | 1,439   | 826   | 1,179   | 623   |
| 578  | Minot State U.                      | ne    | ne      | ne      | ne      | ne      | ne    | ne      | 614   |
| 579  | St. Michael's C.                    | ne    | ne      | ne      | ne      | ne      | ne    | ne      | 613   |
| 580  | Pepperdine U.                       | 0     | 0       | ne      | ne      | ne      | ne    | 556     | 606   |
| 581  | Wilberforce U.                      | 120 i | 80      | 411 i   | 742 i   | 1,073 i | 1,405 | 879     | 600   |
| 582  | Southern Polytechnic State U.       | ne    | ne      | ne      | ne      | ne      | 300   | 561     | 599   |
| 583  | Winona State U.                     | ne    | ne      | ne      | ne      | ne      | 1,216 | 1,020   | 599   |
| 584  | Allegheny C.                        | 1,306 | 974     | 1,007   | 751     | 638     | 787   | 738     | 598   |
| 585  | Fuller Theological Seminary CA      | 516 i | 734 i   | 952 i   | 1,174   | 729     | 780   | 442     | 598   |
| 586  | Universidad Metropolitana           | ne    | ne      | ne      | 2,677 i | 298     | 248   | 505     | 597   |
| 587  | Rhodes C.                           | 280 i | 281 i   | 282 i   | 286     | 400     | 432   | 467     | 595   |

TABLE 27. R&amp;D expenditures at universities and colleges, ranked by FY 2009 R&amp;D expenditures: FY 2002–09

(Dollars in thousands)

| Rank | Institution                         | 2002  | 2003  | 2004  | 2005  | 2006  | 2007  | 2008  | 2009  |
|------|-------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 588  | Kennesaw State U.                   | 221   | 300   | 374   | 477   | 361   | 548   | 634   | 592   |
| 589  | Simmons C.                          | 872   | 978   | 892   | 433   | 442   | 551   | 540   | 592   |
| 590  | Southern OR U.                      | 585   | 741   | 836   | 1,015 | 760   | 875   | 906   | 584   |
| 591  | Eastern OR U.                       | 398   | 226   | 288   | 834   | 1,352 | 649   | 610   | 563   |
| 592  | Saginaw Valley State U.             | 591   | 442   | 332   | 350   | 443   | 680   | 374   | 561   |
| 593  | Wabash C.                           | ne    | ne    | 454   | 464   | 265   | 445   | 606   | 554   |
| 594  | DePauw U.                           | ne    | ne    | 383 i | 404 i | 426 i | 426 i | 420   | 550   |
| 595  | Muhlenberg C.                       | ne    | ne    | ne    | 230   | 326   | 511   | 512   | 550   |
| 596  | Mt. St. Mary's C. (Los Angeles, CA) | ne    | ne    | 492   | 570   | 581   | 515   | 307   | 548   |
| 597  | Eckerd C.                           | ne    | ne    | 317 i | 334 i | ne    | ne    | 540   | 540   |
| 598  | West Liberty State C.               | ne    | ne    | ne    | ne    | 508   | 579   | 516   | 535   |
| 599  | Concordia C. (Moorhead, MN)         | ne    | ne    | ne    | ne    | ne    | ne    | 743   | 530   |
| 600  | Cheyney U. PA                       | 190 i | 209 i | 228 i | 247 i | 278   | 274   | 487   | 529   |
| 601  | Gettysburg C.                       | ne    | ne    | ne    | 688   | 454   | 427   | 469   | 525   |
| 602  | Sonoma State U.                     | 341   | 493   | 260   | 650   | 637   | 408   | 652   | 525   |
| 603  | U. Houston-Downtown                 | 1,054 | 661   | 627   | 329   | 509   | 175   | 292   | 520   |
| 604  | Pacific U.                          | 157   | 823   | 622 i | 421   | 402   | 793   | 808   | 519   |
| 605  | Salish Kootenai C.                  | ne    | ne    | ne    | ne    | ne    | ne    | 446   | 519   |
| 606  | Bridgewater State C.                | 473   | 419   | 258   | 230   | 495   | 657   | 752   | 517   |
| 607  | Juniata C.                          | 283   | 530   | 898   | 721   | 289   | 332   | 384   | 516   |
| 608  | WV School of Osteopathic Medicine   | 182   | 188   | 245   | 270   | 266   | 349   | 520   | 510   |
| 609  | Southern U. New Orleans             | 937   | 587   | 556   | 592   | 592   | 154   | 197   | 505   |
| 610  | Andrews U.                          | 597   | 469   | 584   | 533   | 819   | 1,108 | 845   | 494   |
| 611  | Oakwood C.                          | 567 i | 479 i | 501 i | 528 i | 557 i | ne    | 2,737 | 493   |
| 612  | IL Wesleyan U.                      | ne    | ne    | ne    | 322   | 339   | 856   | 1,290 | 491   |
| 613  | LeTourneau U.                       | ne    | ne    | ne    | ne    | ne    | 405   | 441   | 491   |
| 614  | U. WI River Falls                   | 332   | 331   | 345   | 345   | 434   | 287   | 340   | 490   |
| 615  | St. John's U. (Collegeville, MN)    | ne    | ne    | ne    | ne    | ne    | ne    | 619   | 485   |
| 616  | CO C.                               | 1,286 | 1,318 | 917 i | 516 i | ne    | ne    | 644   | 476   |
| 617  | U.S. Coast Guard Academy            | 1,128 | 1,166 | 866   | 660   | 542   | 1,020 | 696   | 472   |
| 618  | Niagara U.                          | ne    | ne    | ne    | ne    | ne    | ne    | ne    | 465   |
| 619  | Lawrence U.                         | 449 i | 454 i | 459 i | 464 i | 474   | 301   | 303   | 458   |
| 620  | Millersville U. PA                  | 566 i | 601 i | 636 i | 671 i | 706 i | 753   | ne    | 456   |
| 621  | St. Bonaventure U.                  | ne    | ne    | ne    | ne    | ne    | ne    | ne    | 449   |
| 622  | Mercy C.                            | ne    | ne    | ne    | 339 i | 618   | 401   | 342   | 443   |
| 623  | Denison U.                          | 373   | 546   | 415   | 395 i | 375   | 321   | 395   | 438 i |
| 624  | U. Scranton                         | 3,873 | 2,599 | 1,528 | 1,369 | 999   | 600   | 377   | 438   |
| 625  | Whitman C.                          | 278   | 619   | 714   | 595   | 416   | 299   | 1,167 | 434   |
| 626  | National U. of Health Sciences      | 577   | 620   | 401   | 165   | 597   | 580   | 522   | 425   |
| 627  | Universidad del Turabo              | ne    | ne    | ne    | 150 i | 864   | 417   | 532   | 423   |
| 628  | AK Pacific U.                       | 43    | ne    | ne    | ne    | ne    | ne    | 309   | 414   |
| 629  | Kalamazoo C.                        | 435 i | 474 i | 519   | 422   | 364   | 239   | 261   | 413   |

TABLE 27. R&amp;D expenditures at universities and colleges, ranked by FY 2009 R&amp;D expenditures: FY 2002–09

(Dollars in thousands)

| Rank | Institution                           | 2002  | 2003  | 2004  | 2005  | 2006  | 2007  | 2008  | 2009  |
|------|---------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 630  | U. WI Whitewater                      | 236   | 224   | 341   | 305   | 247   | 223   | 358   | 398   |
| 631  | Le Moyne-Owen C.                      | 0     | 0 i   | ne    | ne    | 150 i | ne    | ne    | 396   |
| 632  | Jacksonville U.                       | ne    | ne    | ne    | ne    | 337   | 466   | 396   | 393   |
| 633  | Abilene Christian U.                  | 254   | 231   | 229   | 233   | 241   | 269   | 291   | 386   |
| 634  | William Paterson U. NJ                | ne    | ne    | ne    | ne    | ne    | 385 i | 418   | 380   |
| 635  | Ursinus C.                            | ne    | ne    | ne    | ne    | 562   | 472   | 554   | 379   |
| 636  | Adelphi U.                            | 121 i | 105 i | ne    | ne    | 151 i | 183   | 349   | 369   |
| 637  | Radford U.                            | 562   | 294   | 195   | ne    | 262   | ne    | 290   | 362   |
| 638  | Manhattan C.                          | 257   | 257 e | 381 i | 505   | 504   | 441 i | 378   | 361   |
| 639  | CUNY Medgar Evers C.                  | 992   | 670   | 568   | 707   | 636   | 512   | 283   | 358   |
| 640  | AR Tech U.                            | 526 e | 684 i | 842   | 299   | 292   | 327 i | 327 i | 357 i |
| 641  | John Carroll U.                       | 823   | 442   | 478   | 506   | 474   | 298   | 405   | 351   |
| 642  | Daemen C.                             | ne    | ne    | ne    | ne    | ne    | 529   | 381   | 346   |
| 643  | SUNY C. Cortland                      | 353   | 446   | 392   | 563   | 487   | 480   | 355   | 342   |
| 644  | Kenyon C.                             | ne    | ne    | ne    | ne    | ne    | ne    | 558   | 338   |
| 645  | St. Mary's C. MD                      | 274   | 335   | 322   | 459   | 417   | 415   | 275   | 338   |
| 646  | MA C. of Pharmacy and Health Sciences | 392   | 1,043 | 457   | 574 i | 691   | 580   | 526   | 331   |
| 647  | CO State U. Pueblo                    | 597   | 628   | 786   | 663   | 586   | 151   | 323   | 328   |
| 648  | SUNY C. Oneonta                       | ne    | ne    | ne    | ne    | ne    | ne    | 198   | 323   |
| 649  | SUNY C. Potsdam                       | ne    | ne    | ne    | ne    | ne    | ne    | ne    | 323   |
| 650  | St. Mary's U. (San Antonio, TX)       | 293   | 300   | 512   | 405   | 183   | 623   | 785   | 319   |
| 651  | Wiley C.                              | 15    | 298   | 270   | 181   | ne    | ne    | 286   | 313   |
| 652  | U. Puget Sound                        | 351 i | 367 i | 398   | 319   | 431   | 453   | 338   | 311   |
| 653  | Vanguard U. Southern CA               | ne    | ne    | ne    | ne    | ne    | ne    | 281   | 311 i |
| 654  | Lake Forest C.                        | 283   | 271   | 561   | 242   | 291   | 386   | 272   | 304   |
| 655  | Luther C.                             | ne    | ne    | ne    | ne    | ne    | ne    | 407   | 302   |
| 656  | Fairmont State U.                     | ne    | ne    | ne    | ne    | ne    | ne    | 474   | 298   |
| 657  | Central CT State U.                   | 283   | 355   | 388   | 812   | 573   | 523   | 363   | 297   |
| 658  | OH Wesleyan U.                        | 284   | 284 e | 371 i | 459   | 396   | 376   | 239   | 290   |
| 659  | Coe C.                                | ne    | ne    | ne    | ne    | ne    | 445   | 443   | 286   |
| 660  | Western OR U.                         | ne    | ne    | ne    | ne    | ne    | ne    | ne    | 284   |
| 661  | NJ City U.                            | 267   | 326   | 273   | 720   | ne    | ne    | ne    | 276   |
| 662  | Ft. Lewis C.                          | 286   | 231   | 227   | 519   | 770   | 243   | 258 i | 273   |
| 663  | Cooper Union                          | 427   | 502   | 150   | 173   | ne    | 171   | 161   | 270   |
| 664  | St. Joseph's C. (North Windham, ME)   | ne    | ne    | ne    | ne    | ne    | ne    | ne    | 270   |
| 665  | Goucher C.                            | 122 i | 123 i | ne    | ne    | ne    | 217   | 292   | 269   |
| 666  | Mills C.                              | ne    | ne    | ne    | ne    | 550 i | 575 i | 560 i | 260   |
| 667  | U. WI Stout                           | 1,358 | 1,437 | 1,144 | 415   | 332   | 360   | 335   | 260   |
| 668  | Southwestern OK State U.              | ne    | ne    | ne    | ne    | ne    | 266   | ne    | 254   |
| 669  | SUNY Fredonia                         | 235   | 271   | 193   | 175   | 262   | 318   | 303   | 253   |
| 670  | Pitzer C.                             | 287   | 343   | 320   | 205   | 269   | 268   | 209   | 247   |
| 671  | Seattle Pacific U.                    | ne    | ne    | ne    | ne    | ne    | 150 i | ne    | 235   |



TABLE 27. R&amp;D expenditures at universities and colleges, ranked by FY 2009 R&amp;D expenditures: FY 2002–09

(Dollars in thousands)

| Rank | Institution                         | 2002   | 2003   | 2004   | 2005   | 2006    | 2007   | 2008  | 2009  |
|------|-------------------------------------|--------|--------|--------|--------|---------|--------|-------|-------|
| 672  | Elizabethtown C.                    | ne     | ne     | ne     | ne     | ne      | ne     | ne    | 234   |
| 673  | Jacksonville State U.               | ne     | ne     | ne     | 1,089  | 1,470   | 523    | ne    | 224   |
| 674  | Mayville State U.                   | ne     | ne     | ne     | 185    | 243     | 224    | 224   | 224   |
| 675  | U. WI Parkside                      | 769    | 559    | 608    | 577    | 378     | 218    | 213   | 222   |
| 676  | Frostburg State U.                  | ne     | ne     | ne     | ne     | ne      | ne     | ne    | 215   |
| 677  | Sarah Lawrence C.                   | ne     | ne     | ne     | ne     | 568     | 566    | 293   | 211   |
| 678  | SUNY New Paltz                      | ne     | ne     | ne     | ne     | ne      | ne     | 193   | 209   |
| 679  | Augustana C. (Rock Island, IL)      | 178 i  | 212    | 599    | 300    | 212     | 212 i  | ne    | 205   |
| 680  | Jarvis Christian C.                 | 30     | 335    | 247    | ne     | 806     | ne     | ne    | 205   |
| 681  | Wilkes U.                           | 95     | 427    | 300    | ne     | 231     | 300    | 254   | 202   |
| 682  | Widener U. PA Campus                | ne     | ne     | ne     | ne     | ne      | ne     | 169   | 189 i |
| 683  | Troy U. main campus                 | ne     | ne     | ne     | ne     | 246     | 246    | ne    | 187   |
| 684  | U. NC Pembroke                      | ne     | ne     | ne     | ne     | 258     | 329    | 239   | 187   |
| 685  | Canisius C.                         | 284 i  | 320 i  | 356 i  | 392 i  | 434     | 163    | 186   | 186   |
| 686  | Fitchburg State C.                  | 80 i   | 107 i  | ne     | 161    | 161     | ne     | ne    | 185   |
| 687  | Benedictine U.                      | ne     | ne     | ne     | ne     | ne      | ne     | 184   | 179   |
| 688  | North GA C. & State U.              | ne     | ne     | ne     | ne     | ne      | ne     | ne    | 177   |
| 689  | Midwestern State U.                 | ne     | ne     | ne     | ne     | ne      | ne     | ne    | 171   |
| 690  | Gustavus Adolphus C.                | 425 i  | 566 i  | 707    | 487    | 463     | 173    | 170   | 168   |
| 691  | OH Northern U.                      | ne     | ne     | ne     | ne     | ne      | ne     | ne    | 167   |
| 692  | CUNY New York City C. of Technology | ne     | ne     | ne     | ne     | ne      | ne     | 267   | 166   |
| 693  | Fairleigh Dickinson U. all campuses | 190    | 286    | ne     | ne     | ne      | 150 i  | 157 i | 164 i |
| 694  | Southeastern OK State U.            | ne     | 231    | 383    | 485    | 487     | 360    | 316   | 159   |
| 695  | Carlos Albizu U. (San Juan, PR)     | ne     | ne     | ne     | ne     | 497     | 418    | 310   | 157   |
| 696  | Loyola C.                           | 1,140  | 454    | 935    | 1,729  | 1,551 i | 1,373  | 154   | 155   |
| 697  | Western CT State U.                 | ne     | ne     | ne     | ne     | ne      | 324    | 325   | 155   |
|      | All other surveyed institutions     | 99,039 | 54,092 | 35,836 | 34,003 | 33,453  | 15,859 | 9,188 | 0     |

e = estimated; data were not provided by institution; prior-year data were used or current-year estimates were reported. i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. NA = not available; institution was not surveyed separately. ne = not eligible; institution did not meet the criteria for inclusion.

<sup>a</sup> The Johns Hopkins University includes the Applied Physics Laboratory, with \$977,951 in total R&D expenditures in FY 2009.

<sup>b</sup> See Appendix A, Technical Notes, for changes in reporting between FY 2003 and FY 2004.

<sup>c</sup> In previous publications of this report Southern University Baton Rouge was listed as Southern University and A&M College.

<sup>d</sup> On 1 July 2008 PA College of Optometry was renamed Salus University to reflect an expansion of its academic programs.

NOTE: Tied institutions are ranked alphabetically.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2009.