

Science and engineering profiles, by state: 2006–08

| Location | Employed SEH doctorate holders, 2006 ^a | | S&E doctorates awarded, 2007 | | SEH postdoctorates in doctorate- granting institutions, 2006 | |
|----------------------|--|------|---------------------------------|------|---|------|
| | Total | Rank | Total | Rank | Total | Rank |
| United States | 620,140 | – | 31,801 | – | 49,201 | – |
| Alabama | 5,900 | 28 | 352 | 25 | 278 | 31 |
| Alaska | 1,110 [†] | 50 | 29 | 52 | 0 | 51 |
| Arizona | 8,410 | 24 | 564 | 20 | 495 | 24 |
| Arkansas | 2,840 | 40 | 91 | 43 | 139 | 38 |
| California | 87,370 | 1 | 4,283 | 1 | 7,550 | 1 |
| Colorado | 13,150 | 16 | 591 | 18 | 1,099 | 14 |
| Connecticut | 10,330 | 19 | 512 | 21 | 1,216 | 12 |
| Delaware | 3,110 | 36 | 147 | 38 | 120 | 40 |
| District of Columbia | 13,330 | 15 | 331 | 27 | 208 | 35 |
| Florida | 17,630 | 13 | 1,231 | 7 | 1,359 | 10 |
| Georgia | 12,970 | 17 | 898 | 11 | 1,230 | 11 |
| Hawaii | 2,850 | 39 | 98 | 41 | 98 | 43 |
| Idaho | 2,840 [†] | 40 | 78 | 46 | 44 | 47 |
| Illinois | 24,110 | 7 | 1,519 | 5 | 1,459 | 8 |
| Indiana | 9,870 | 21 | 807 | 13 | 840 | 18 |
| Iowa | 4,890 | 32 | 427 | 24 | 544 | 23 |
| Kansas | 4,250 | 34 | 259 | 32 | 351 | 28 |
| Kentucky | 4,960 | 31 | 267 | 31 | 486 | 25 |
| Louisiana | 5,480 | 30 | 347 | 26 | 311 | 30 |
| Maine | 2,350 [†] | 44 | 39 | 51 | 0 | 51 |
| Maryland | 26,160 | 6 | 858 | 12 | 1,710 | 7 |
| Massachusetts | 32,400 | 4 | 1,903 | 4 | 6,670 | 2 |
| Michigan | 17,900 | 12 | 1,163 | 8 | 1,373 | 9 |
| Minnesota | 11,800 | 18 | 571 | 19 | 1,057 | 15 |
| Mississippi | 3,310 | 35 | 174 | 37 | 194 | 36 |
| Missouri | 9,300 | 23 | 496 | 22 | 671 | 22 |
| Montana | 1,990 [†] | 46 | 68 | 47 | 135 | 39 |
| Nebraska | 2,970 | 38 | 175 | 36 | 218 | 34 |
| Nevada | 2,620 | 42 | 81 | 44 | 101 | 42 |
| New Hampshire | 2,470 [†] | 43 | 124 | 39 | 235 | 32 |
| New Jersey | 20,810 | 8 | 686 | 15 | 692 | 21 |
| New Mexico | 8,300 | 25 | 193 | 34 | 105 | 41 |
| New York | 45,850 | 2 | 2,560 | 2 | 4,182 | 3 |
| North Carolina | 18,910 | 11 | 940 | 10 | 1,960 | 6 |
| North Dakota | 1,380 [†] | 49 | 79 | 45 | 39 | 48 |
| Ohio | 20,540 | 9 | 1,144 | 9 | 972 | 16 |
| Oklahoma | 4,420 | 33 | 257 | 33 | 162 | 37 |
| Oregon | 8,270 | 26 | 309 | 28 | 320 | 29 |
| Pennsylvania | 29,120 | 5 | 1,499 | 6 | 2,530 | 5 |
| Puerto Rico | 1,690 | 47 | 98 | 41 | 21 | 49 |
| Rhode Island | 3,020 | 37 | 192 | 35 | 228 | 33 |
| South Carolina | 5,910 | 27 | 282 | 30 | 360 | 27 |
| South Dakota | 1,050 [†] | 51 | 41 | 50 | 19 | 50 |
| Tennessee | 9,980 | 20 | 441 | 23 | 762 | 20 |
| Texas | 36,000 | 3 | 2,101 | 3 | 3,189 | 4 |
| Utah | 5,520 | 29 | 296 | 29 | 367 | 26 |
| Vermont | 1,690 [†] | 47 | 45 | 49 | 79 | 44 |
| Virginia | 19,850 | 10 | 750 | 14 | 931 | 17 |
| Washington | 16,920 | 14 | 594 | 17 | 1,203 | 13 |
| West Virginia | 2,000 [†] | 45 | 103 | 40 | 59 | 45 |
| Wisconsin | 9,530 | 22 | 650 | 16 | 781 | 19 |
| Wyoming | 730 [†] | 52 | 58 | 48 | 49 | 46 |

Science and engineering profiles, by state: 2006–08

| Location | SEH graduate students in doctorate-granting institutions, 2006 | | Population, 2008 | | Civilian labor force, 2008 | | Personal income per capita, 2007 | |
|----------------------|--|---------|----------------------|---------|----------------------------|---------|----------------------------------|--------|
| | Total | Rank | Total (thousands) | Rank | Total (thousands) | Rank | Total (dollars) | Rank |
| | United States | 542,073 | – | 308,014 | – | 155,366 | – | 38,615 |
| Alabama | 7,858 | 22 | 4,662 | 23 | 2,162 | 23 | 32,419 | 43 |
| Alaska | 661 | 52 | 686 | 48 | 357 | 49 | 40,042 | 16 |
| Arizona | 8,190 | 21 | 6,500 | 14 | 3,133 | 16 | 32,833 | 42 |
| Arkansas | 3,760 | 35 | 2,855 | 33 | 1,370 | 34 | 30,177 | 48 |
| California | 52,480 | 1 | 36,757 | 1 | 18,392 | 1 | 41,805 | 8 |
| Colorado | 10,683 | 19 | 4,939 | 22 | 2,730 | 22 | 41,192 | 12 |
| Connecticut | 7,081 | 25 | 3,501 | 30 | 1,876 | 28 | 54,981 | 2 |
| Delaware | 2,045 | 44 | 873 | 46 | 443 | 47 | 40,112 | 15 |
| District of Columbia | 11,641 | 15 | 592 | 51 | 333 | 51 | 62,484 | 1 |
| Florida | 26,317 | 5 | 18,328 | 4 | 9,231 | 4 | 38,417 | 21 |
| Georgia | 11,535 | 16 | 9,686 | 9 | 4,848 | 9 | 33,499 | 38 |
| Hawaii | 2,058 | 43 | 1,288 | 43 | 654 | 43 | 39,242 | 19 |
| Idaho | 2,141 | 42 | 1,524 | 40 | 755 | 40 | 31,804 | 44 |
| Illinois | 25,639 | 6 | 12,902 | 5 | 6,697 | 5 | 41,012 | 14 |
| Indiana | 11,293 | 17 | 6,377 | 16 | 3,230 | 15 | 33,215 | 41 |
| Iowa | 5,479 | 29 | 3,003 | 31 | 1,676 | 30 | 34,916 | 32 |
| Kansas | 6,659 | 26 | 2,802 | 34 | 1,497 | 31 | 36,525 | 24 |
| Kentucky | 4,925 | 31 | 4,269 | 26 | 2,043 | 26 | 30,824 | 46 |
| Louisiana | 6,131 | 27 | 4,411 | 25 | 2,079 | 25 | 35,100 | 30 |
| Maine | 728 | 51 | 1,316 | 41 | 707 | 42 | 33,991 | 35 |
| Maryland | 14,071 | 13 | 5,634 | 19 | 2,998 | 20 | 46,471 | 6 |
| Massachusetts | 27,109 | 4 | 6,498 | 15 | 3,424 | 14 | 48,995 | 4 |
| Michigan | 18,885 | 9 | 10,003 | 8 | 4,936 | 8 | 34,423 | 34 |
| Minnesota | 15,818 | 10 | 5,220 | 21 | 2,933 | 21 | 41,105 | 13 |
| Mississippi | 3,626 | 37 | 2,939 | 32 | 1,314 | 36 | 28,541 | 51 |
| Missouri | 10,751 | 18 | 5,912 | 18 | 3,012 | 19 | 33,964 | 36 |
| Montana | 1,477 | 47 | 967 | 45 | 506 | 45 | 33,225 | 40 |
| Nebraska | 3,324 | 38 | 1,783 | 39 | 996 | 37 | 36,372 | 25 |
| Nevada | 2,554 | 40 | 2,600 | 36 | 1,373 | 33 | 39,853 | 17 |
| New Hampshire | 1,776 | 46 | 1,316 | 42 | 739 | 41 | 41,639 | 10 |
| New Jersey | 12,903 | 14 | 8,683 | 11 | 4,497 | 11 | 49,511 | 3 |
| New Mexico | 4,030 | 34 | 1,984 | 37 | 959 | 38 | 30,706 | 47 |
| New York | 48,022 | 2 | 19,490 | 3 | 9,680 | 3 | 46,364 | 7 |
| North Carolina | 14,456 | 12 | 9,222 | 10 | 4,544 | 10 | 33,735 | 37 |
| North Dakota | 1,799 | 45 | 641 | 49 | 370 | 48 | 36,082 | 27 |
| Ohio | 21,263 | 8 | 11,486 | 7 | 5,972 | 7 | 34,468 | 33 |
| Oklahoma | 4,444 | 33 | 3,642 | 29 | 1,748 | 29 | 34,997 | 31 |
| Oregon | 5,107 | 30 | 3,790 | 28 | 1,958 | 27 | 35,143 | 29 |
| Pennsylvania | 24,031 | 7 | 12,448 | 6 | 6,395 | 6 | 38,793 | 20 |
| Puerto Rico | 4,526 | 32 | 3,954 | 27 | 1,366 | 35 | 13,291 | 52 |
| Rhode Island | 2,177 | 41 | 1,051 | 44 | 568 | 44 | 39,829 | 18 |
| South Carolina | 3,720 | 36 | 4,480 | 24 | 2,153 | 24 | 31,103 | 45 |
| South Dakota | 1,292 | 48 | 804 | 47 | 445 | 46 | 35,760 | 28 |
| Tennessee | 7,813 | 23 | 6,215 | 17 | 3,041 | 18 | 33,395 | 39 |
| Texas | 37,004 | 3 | 24,327 | 2 | 11,702 | 2 | 37,083 | 23 |
| Utah | 6,052 | 28 | 2,736 | 35 | 1,384 | 32 | 29,831 | 49 |
| Vermont | 757 | 50 | 621 | 50 | 355 | 50 | 37,483 | 22 |
| Virginia | 15,605 | 11 | 7,769 | 12 | 4,125 | 12 | 41,727 | 9 |
| Washington | 7,423 | 24 | 6,549 | 13 | 3,477 | 13 | 41,203 | 11 |
| West Virginia | 2,908 | 39 | 1,814 | 38 | 806 | 39 | 29,385 | 50 |
| Wisconsin | 9,082 | 20 | 5,628 | 20 | 3,084 | 17 | 36,272 | 26 |
| Wyoming | 964 | 49 | 533 | 52 | 293 | 52 | 47,047 | 5 |

Science and engineering profiles, by state: 2006–08

| Location | Total federal expenditures, 2007 | | Federal R&D obligations, 2006 | | Total R&D performance, 2006 | | Industry R&D, 2006 | |
|----------------------|----------------------------------|------|-------------------------------|------|-----------------------------|------|--------------------|------|
| | Total (\$millions) | Rank | Total (\$millions) | Rank | Total (\$millions) | Rank | Total (\$millions) | Rank |
| United States | 2,532,073 | – | 107,545 | – | 335,377 | – | 243,853 | – |
| Alabama | 47,889 | 19 | 2,162 | 13 | 3,300 | 26 | 1,835 | 25 |
| Alaska | 9,378 | 45 | 209 | 43 | 291 | 49 | 49 | 50 |
| Arizona | 48,012 | 18 | 2,056 | 15 | 4,760 | 20 | 3,590 | 18 |
| Arkansas | 22,454 | 33 | 156 | 45 | 572 | 42 | 285 | 41 |
| California | 260,422 | 1 | 21,157 | 1 | 71,335 | 1 | 58,424 | 1 |
| Colorado | 34,828 | 27 | 2,030 | 16 | 6,153 | 17 | 4,657 | 16 |
| Connecticut | 32,378 | 28 | 1,592 | 20 | 9,049 | 13 | 8,273 | 10 |
| Delaware | 6,234 | 50 | 109 | 48 | 1,588 | 34 | 1,446 | 27 |
| District of Columbia | 43,475 | 21 | 4,092 | 7 | 3,762 | 24 | 276 | 42 |
| Florida | 147,091 | 4 | 2,319 | 12 | 6,339 | 16 | 4,139 | 17 |
| Georgia | 71,079 | 10 | 1,251 | 22 | 4,440 | 21 | 2,786 | 22 |
| Hawaii | 14,062 | 40 | 340 | 35 | 518 | 44 | 155 | 46 |
| Idaho | 10,946 | 43 | 297 | 38 | 927 | 37 | 625 | 35 |
| Illinois | 88,669 | 8 | 1,976 | 17 | 13,609 | 8 | 10,765 | 7 |
| Indiana | 47,254 | 20 | 560 | 28 | 5,784 | 19 | 4,858 | 14 |
| Iowa | 21,649 | 35 | 497 | 31 | 1,715 | 33 | 1,055 | 32 |
| Kansas | 22,737 | 32 | 212 | 42 | 2,441 | 28 | 2,064 | 24 |
| Kentucky | 35,927 | 26 | 239 | 40 | 1,342 | 35 | 839 | 33 |
| Louisiana | 43,036 | 22 | 321 | 36 | 972 | 36 | 367 | 39 |
| Maine | 11,850 | 42 | 226 | 41 | 450 | 46 | 253 | 43 |
| Maryland | 70,617 | 11 | 12,499 | 2 | 14,493 | 6 | 3,421 | 19 |
| Massachusetts | 61,028 | 14 | 6,105 | 4 | 20,577 | 2 | 15,562 | 3 |
| Michigan | 71,652 | 9 | 1,681 | 19 | 18,189 | 3 | 16,477 | 2 |
| Minnesota | 40,075 | 23 | 1,237 | 23 | 7,149 | 15 | 6,296 | 12 |
| Mississippi | 30,616 | 30 | 544 | 29 | 758 | 41 | 231 | 44 |
| Missouri | 55,564 | 15 | 1,225 | 24 | 3,650 | 25 | 2,675 | 23 |
| Montana | 8,497 | 47 | 150 | 46 | 307 | 48 | 103 | 48 |
| Nebraska | 13,986 | 41 | 160 | 44 | 840 | 39 | 447 | 38 |
| Nevada | 15,474 | 39 | 422 | 32 | 792 | 40 | 535 | 36 |
| New Hampshire | 9,764 | 44 | 372 | 33 | 2,121 | 30 | 1,774 | 26 |
| New Jersey | 63,972 | 13 | 2,111 | 14 | 16,259 | 5 | 14,606 | 4 |
| New Mexico | 22,418 | 34 | 3,100 | 10 | 5,789 | 18 | 676 | 34 |
| New York | 157,789 | 3 | 5,225 | 6 | 14,366 | 7 | 9,518 | 9 |
| North Carolina | 65,863 | 12 | 1,766 | 18 | 7,710 | 14 | 5,486 | 13 |
| North Dakota | 6,766 | 49 | 112 | 47 | 316 | 47 | 120 | 47 |
| Ohio | 105,214 | 7 | 2,420 | 11 | 9,431 | 12 | 6,852 | 11 |
| Oklahoma | 30,686 | 29 | 262 | 39 | 888 | 38 | 474 | 37 |
| Oregon | 25,242 | 31 | 505 | 30 | 4,104 | 23 | 3,419 | 20 |
| Pennsylvania | 117,151 | 5 | 3,228 | 9 | 12,929 | 10 | 9,819 | 8 |
| Puerto Rico | 16,798 | 38 | 99 | 50 | na | na | na | na |
| Rhode Island | 9,077 | 46 | 616 | 27 | 2,000 | 31 | 1,330 | 30 |
| South Carolina | 37,056 | 25 | 371 | 34 | 2,164 | 29 | 1,396 | 29 |
| South Dakota | 8,280 | 48 | 76 | 51 | 191 | 50 | 95 | 49 |
| Tennessee | 51,456 | 17 | 1,456 | 21 | 3,263 | 27 | 1,428 | 28 |
| Texas | 171,766 | 2 | 5,264 | 5 | 17,059 | 4 | 13,334 | 5 |
| Utah | 17,158 | 36 | 738 | 25 | 1,945 | 32 | 1,274 | 31 |
| Vermont | 5,579 | 51 | 106 | 49 | 493 | 45 | 360 | 40 |
| Virginia | 110,105 | 6 | 8,882 | 3 | 9,867 | 11 | 4,816 | 15 |
| Washington | 52,455 | 16 | 4,039 | 8 | 13,585 | 9 | 11,320 | 6 |
| West Virginia | 17,067 | 37 | 301 | 37 | 534 | 43 | 221 | 45 |
| Wisconsin | 38,177 | 24 | 636 | 26 | 4,132 | 22 | 3,020 | 21 |
| Wyoming | 5,355 | 52 | 36 | 52 | 129 | 51 | 27 | 51 |

Science and engineering profiles, by state: 2006–08

| Location | Academic R&D, 2007 | | SBIR awards, 2000–07 | | Utility patents issued to state residents, 2008 | | Gross domestic product, 2007 | |
|----------------------|--------------------|------|----------------------|------|---|------|------------------------------|------|
| | Total (\$millions) | Rank | Total | Rank | Total | Rank | Total (\$billions) | Rank |
| United States | 49,406 | – | 44,157 | – | 77,493 | – | 13,832 | – |
| Alabama | 655 | 23 | 895 | 14 | 279 | 37 | 166 | 25 |
| Alaska | 160 | 45 | 28 | 51 | 20 | 51 | 45 | 47 |
| Arizona | 783 | 20 | 816 | 15 | 1,584 | 16 | 247 | 17 |
| Arkansas | 240 | 39 | 138 | 37 | 108 | 42 | 95 | 34 |
| California | 6,733 | 1 | 8,818 | 1 | 19,181 | 1 | 1,813 | 1 |
| Colorado | 873 | 17 | 2,164 | 5 | 1,622 | 15 | 236 | 20 |
| Connecticut | 691 | 22 | 697 | 16 | 1,356 | 17 | 216 | 23 |
| Delaware | 126 | 47 | 184 | 31 | 325 | 35 | 60 | 41 |
| District of Columbia | 327 | 35 | 113 | 41 | 68 | 47 | 94 | 35 |
| Florida | 1,546 | 10 | 1,062 | 11 | 2,046 | 12 | 735 | 4 |
| Georgia | 1,389 | 12 | 471 | 23 | 1,344 | 19 | 397 | 10 |
| Hawaii | 274 | 38 | 157 | 35 | 77 | 45 | 62 | 40 |
| Idaho | 114 | 49 | 113 | 41 | 1,162 | 21 | 51 | 44 |
| Illinois | 1,867 | 8 | 688 | 17 | 2,741 | 7 | 610 | 5 |
| Indiana | 802 | 19 | 314 | 26 | 985 | 23 | 246 | 18 |
| Iowa | 587 | 26 | 116 | 39 | 561 | 27 | 129 | 30 |
| Kansas | 376 | 33 | 145 | 36 | 425 | 30 | 117 | 32 |
| Kentucky | 503 | 29 | 100 | 45 | 413 | 32 | 154 | 27 |
| Louisiana | 598 | 25 | 111 | 43 | 260 | 38 | 216 | 24 |
| Maine | 137 | 46 | 161 | 34 | 113 | 41 | 48 | 45 |
| Maryland | 2,542 | 4 | 2,208 | 4 | 1,232 | 20 | 269 | 15 |
| Massachusetts | 2,172 | 6 | 5,881 | 2 | 3,516 | 5 | 352 | 13 |
| Michigan | 1,510 | 11 | 937 | 13 | 2,996 | 6 | 382 | 12 |
| Minnesota | 637 | 24 | 619 | 20 | 2,535 | 9 | 255 | 16 |
| Mississippi | 411 | 31 | 79 | 47 | 102 | 43 | 89 | 37 |
| Missouri | 941 | 16 | 230 | 29 | 615 | 25 | 229 | 22 |
| Montana | 179 | 42 | 240 | 28 | 91 | 44 | 34 | 48 |
| Nebraska | 365 | 34 | 72 | 48 | 191 | 40 | 80 | 38 |
| Nevada | 189 | 41 | 130 | 38 | 375 | 34 | 127 | 31 |
| New Hampshire | 307 | 36 | 508 | 22 | 477 | 28 | 57 | 43 |
| New Jersey | 864 | 18 | 1,191 | 10 | 2,722 | 8 | 465 | 8 |
| New Mexico | 410 | 32 | 672 | 18 | 280 | 36 | 76 | 39 |
| New York | 3,965 | 2 | 1,826 | 7 | 4,885 | 3 | 1,103 | 3 |
| North Carolina | 1,885 | 7 | 634 | 19 | 1,841 | 13 | 399 | 9 |
| North Dakota | 169 | 43 | 55 | 49 | 63 | 48 | 28 | 51 |
| Ohio | 1,807 | 9 | 1,796 | 8 | 2,227 | 11 | 466 | 7 |
| Oklahoma | 299 | 37 | 191 | 30 | 417 | 31 | 139 | 29 |
| Oregon | 575 | 27 | 543 | 21 | 1,781 | 14 | 158 | 26 |
| Pennsylvania | 2,438 | 5 | 1,654 | 9 | 2,414 | 10 | 531 | 6 |
| Puerto Rico | 107 | 50 | 11 | 52 | 14 | 52 | 89 | 36 |
| Rhode Island | 230 | 40 | 166 | 33 | 218 | 39 | 47 | 46 |
| South Carolina | 569 | 28 | 174 | 32 | 395 | 33 | 153 | 28 |
| South Dakota | 82 | 51 | 37 | 50 | 54 | 49 | 34 | 49 |
| Tennessee | 761 | 21 | 309 | 27 | 586 | 26 | 244 | 19 |
| Texas | 3,415 | 3 | 1,936 | 6 | 5,712 | 2 | 1,142 | 2 |
| Utah | 413 | 30 | 391 | 25 | 642 | 24 | 106 | 33 |
| Vermont | 115 | 48 | 114 | 40 | 437 | 29 | 25 | 52 |
| Virginia | 972 | 15 | 2,574 | 3 | 1,030 | 22 | 383 | 11 |
| Washington | 981 | 14 | 1,043 | 12 | 3,517 | 4 | 311 | 14 |

Science and engineering profiles, by state: 2006–08

| Location | Academic R&D, 2007 | | SBIR awards, 2000–07 | | Utility patents issued to state residents, 2008 | | Gross domestic product, 2007 | |
|---------------|--------------------|------|----------------------|------|---|------|------------------------------|------|
| | Total (\$millions) | Rank | Total | Rank | Total | Rank | Total (\$billions) | Rank |
| West Virginia | 167 | 44 | 110 | 44 | 74 | 46 | 58 | 42 |
| Wisconsin | 1,067 | 13 | 455 | 24 | 1,349 | 18 | 232 | 21 |
| Wyoming | 80 | 52 | 80 | 46 | 35 | 50 | 32 | 50 |

†Coefficient of variation > 10% but < 25%. – = no value possible. na = not applicable; data were not collected.

S&E = science and engineering; SEH = science, engineering, and health; SBIR = small business innovation research.

^a Doctorate holders working in U.S. territories other than Puerto Rico and those whose location is unknown are included in total but not broken out separately. Numbers are rounded to nearest 10. Detail may not add to total because of rounding.

NOTES: Ranking and totals are based on data for the 50 states, District of Columbia, and Puerto Rico. Rankings are based on unrounded totals; they do not account for margin of error of estimates from sample surveys. Employed SEH doctorate holders include only recipients of U.S. doctoral degrees. State estimates for employed SEH doctorate holders may have large sampling errors because the source for these data, the Survey of Doctorate Recipients, was not designed to provide a sample for estimates at the state level; these data are classified by the state where the doctorate holder resides, if known; otherwise, data are classified by employer's location.

SOURCES: Prepared by the National Science Foundation/Division of Science Resources Statistics. Data compiled from numerous sources; see the section, "Data Sources for Science and Engineering State Profiles."