

Table SHED-12

S&E doctoral degrees, by selected region, country, or economy and field: 2010–18

(Number)

| Region, country, or economy and field | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|---|--------|--------|--------|-------|--------|--------|--------|--------|--------|
| Argentina | | | | | | | | | |
| All fields | 937 | 1,518 | 1,674 | 2,088 | 2,088 | 2,406 | NA | NA | NA |
| All S&E | 709 | 1,122 | 1,203 | 1,726 | 1,726 | 1,716 | NA | NA | NA |
| Physical and biological sciences and mathematics and statistics | 372 | 590 | 709 | 934 | 934 | 904 | NA | NA | NA |
| Computer sciences | 68 | 83 | 19 | NA | NA | 28 | NA | NA | NA |
| Agricultural sciences | 60 | 106 | 82 | 87 | 87 | 99 | NA | NA | NA |
| Social and behavioral sciences | 141 | 221 | 305 | 551 | 551 | 527 | NA | NA | NA |
| Engineering | 68 | 122 | 88 | 154 | 154 | 158 | NA | NA | NA |
| Australia | | | | | | | | | |
| All fields | 6,398 | 6,849 | 7,166 | 8,101 | 8,400 | 8,627 | 9,089 | 9,242 | 8,777 |
| All S&E | 3,665 | 3,975 | 4,193 | 4,576 | 4,865 | 5,011 | 5,285 | 5,507 | 5,332 |
| Physical and biological sciences and mathematics and statistics | 1,306 | 1,495 | 1,512 | 1,621 | 1,668 | 1,900 | 1,988 | 2,117 | 2,094 |
| Computer sciences | 231 | 248 | 262 | 315 | 311 | 327 | 346 | 351 | 368 |
| Agricultural sciences | 281 | 280 | 326 | 306 | 300 | 353 | 406 | 390 | 319 |
| Social and behavioral sciences | 891 | 968 | 927 | 998 | 1,088 | 1,040 | 1,043 | 1,080 | 962 |
| Engineering | 956 | 984 | 1,166 | 1,336 | 1,498 | 1,391 | 1,502 | 1,569 | 1,589 |
| Austria | | | | | | | | | |
| All fields | 2,484 | 2,345 | 2,398 | 2,228 | 2,207 | 2,189 | 2,239 | 2,628 | 2,779 |
| All S&E | 1,377 | 1,363 | 1,410 | 1,332 | 1,305 | 1,243 | 1,316 | 1,429 | 1,484 |
| Physical and biological sciences and mathematics and statistics | 461 | 453 | 436 | 505 | 427 | 431 | 440 | 446 | 504 |
| Computer sciences | 129 | 96 | 139 | 112 | 114 | 113 | 113 | 109 | 102 |
| Agricultural sciences | 96 | 93 | 80 | 71 | 56 | 67 | 70 | 96 | 70 |
| Social and behavioral sciences | 229 | 260 | 270 | 223 | 209 | 166 | 158 | 251 | 299 |
| Engineering | 463 | 461 | 486 | 421 | 501 | 467 | 537 | 528 | 510 |
| Belgium | | | | | | | | | |
| All fields | 2,125 | 2,165 | 2,373 | 2,464 | 2,581 | 2,800 | 2,890 | 2,918 | 3,051 |
| All S&E | 1,280 | 1,313 | 1,433 | 1,546 | 1,575 | 1,677 | 1,662 | 1,423 | 1,745 |
| Physical and biological sciences and mathematics and statistics | 421 | 438 | 464 | 455 | 504 | 804 | 590 | 602 | 670 |
| Computer sciences | 54 | 58 | 55 | 67 | 64 | 2 | 16 | 14 | 16 |
| Agricultural sciences | 111 | 105 | 115 | 133 | 135 | 73 | 86 | 82 | 66 |
| Social and behavioral sciences | 193 | 205 | 238 | 264 | 266 | 273 | 303 | 320 | 304 |
| Engineering | 501 | 507 | 561 | 627 | 606 | 525 | 667 | 405 | 689 |
| Brazil | | | | | | | | | |
| All fields | 11,314 | 12,321 | 13,912 | NA | 16,745 | 18,625 | 20,605 | 21,609 | 22,927 |
| All S&E | NA | NA | NA | NA | 9,124 | 9,414 | 10,469 | 10,752 | 11,365 |
| Physical and biological sciences and mathematics and statistics | NA | NA | NA | NA | 2,798 | 2,899 | 3,143 | 3,284 | 3,413 |
| Computer sciences | NA | NA | NA | NA | 224 | 289 | 332 | 410 | 346 |
| Agricultural sciences | NA | NA | NA | NA | 1,941 | 2,116 | 2,389 | 2,356 | 2,559 |
| Social and behavioral sciences | NA | NA | NA | NA | 1,302 | 1,396 | 1,544 | 1,620 | 1,720 |
| Engineering | NA | NA | NA | NA | 2,859 | 2,714 | 3,061 | 3,082 | 3,327 |
| Bulgaria | | | | | | | | | |
| All fields | 596 | NA | NA | 1,202 | 1,363 | 1,442 | 1,464 | 1,423 | 1,365 |
| All S&E | 313 | NA | NA | 561 | 692 | 710 | 634 | 707 | 621 |
| Physical and biological sciences and mathematics and statistics | 84 | NA | NA | 140 | 174 | 191 | 176 | 215 | 171 |
| Computer sciences | 7 | NA | NA | 25 | 33 | 36 | 18 | 39 | 27 |

Table SHED-12

S&E doctoral degrees, by selected region, country, or economy and field: 2010–18

(Number)

| Region, country, or economy and field | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Agricultural sciences | 20 | NA | NA | 37 | 47 | 61 | 43 | 44 | 34 |
| Social and behavioral sciences | 66 | NA | NA | 135 | 177 | 167 | 162 | 216 | 236 |
| Engineering | 136 | NA | NA | 224 | 261 | 255 | 235 | 193 | 153 |
| Canada | | | | | | | | | |
| All fields | 5,673 | 5,906 | 6,396 | 7,059 | 7,190 | 7,546 | 7,768 | 8,003 | 8,247 |
| All S&E | 4,089 | 4,346 | 4,694 | 5,187 | 5,075 | 5,325 | 5,556 | 5,719 | 5,888 |
| Physical and biological sciences and mathematics and statistics | 1,756 | 1,925 | 2,081 | 2,299 | 1,947 | 2,043 | 2,083 | 2,065 | 2,127 |
| Computer sciences | 227 | 238 | 255 | 283 | 259 | 272 | 251 | 273 | 280 |
| Agricultural sciences | 164 | 157 | 170 | 188 | 203 | 213 | 248 | 290 | 299 |
| Social and behavioral sciences | 818 | 855 | 935 | 1,027 | 1,215 | 1,276 | 1,341 | 1,406 | 1,454 |
| Engineering | 1,124 | 1,171 | 1,253 | 1,391 | 1,451 | 1,522 | 1,632 | 1,685 | 1,728 |
| Chile | | | | | | | | | |
| All fields | 423 | 461 | 540 | 593 | 606 | 670 | 699 | 697 | 807 |
| All S&E | 330 | 343 | 399 | 436 | 408 | 469 | 495 | 478 | 571 |
| Physical and biological sciences and mathematics and statistics | 223 | 198 | 231 | 215 | 205 | 254 | 278 | 255 | 289 |
| Computer sciences | 2 | 6 | 4 | 22 | 9 | 11 | 13 | 12 | 11 |
| Agricultural sciences | 29 | 34 | 44 | 50 | 46 | 53 | 58 | 52 | 68 |
| Social and behavioral sciences | 21 | 29 | 30 | 32 | 53 | 48 | 50 | 73 | 102 |
| Engineering | 55 | 76 | 90 | 117 | 96 | 103 | 96 | 87 | 101 |
| China ^a | | | | | | | | | |
| All fields | 48,987 | 50,289 | 51,713 | 53,139 | 53,653 | 53,778 | 55,011 | 58,032 | 60,724 |
| All S&E | 31,410 | 32,208 | 32,331 | 33,490 | 34,103 | 34,440 | 35,147 | 37,506 | 39,768 |
| Physical and biological sciences and mathematics and statistics | 9,638 | 9,881 | 9,762 | 10,396 | 10,922 | 10,978 | 11,589 | 12,208 | 12,831 |
| Computer sciences | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Agricultural sciences | 1,973 | 2,241 | 2,365 | 2,435 | 2,382 | 2,549 | 2,445 | 2,654 | 2,762 |
| Social and behavioral sciences | 2,371 | 2,383 | 2,314 | 2,328 | 2,262 | 2,184 | 2,046 | 2,152 | 2,142 |
| Engineering | 17,428 | 17,703 | 17,890 | 18,331 | 18,537 | 18,729 | 19,067 | 20,492 | 22,033 |
| Colombia | | | | | | | | | |
| All fields | NA | NA | 258 | 330 | 408 | 466 | 600 | 770 | 803 |
| All S&E | NA | NA | 175 | 206 | 262 | 300 | 395 | 472 | 491 |
| Physical and biological sciences and mathematics and statistics | NA | NA | 80 | 83 | 90 | 106 | 139 | 157 | 160 |
| Computer sciences | NA | NA | 0 | 13 | 9 | 15 | 17 | 20 | 19 |
| Agricultural sciences | NA | NA | 21 | 17 | 34 | 33 | 40 | 34 | 37 |
| Social and behavioral sciences | NA | NA | 4 | 31 | 41 | 59 | 63 | 95 | 92 |
| Engineering | NA | NA | 70 | 62 | 88 | 87 | 136 | 166 | 183 |
| Costa Rica | | | | | | | | | |
| All fields | NA | NA | NA | 103 | 82 | 106 | 140 | 108 | 89 |
| All S&E | NA | NA | NA | 36 | 11 | 14 | 23 | 21 | 20 |
| Physical and biological sciences and mathematics and statistics | NA | NA | NA | 10 | 6 | 9 | 10 | 12 | 7 |
| Computer sciences | NA | NA | NA | NA | 0 | 0 | 2 | 0 | 4 |
| Agricultural sciences | NA | NA | NA | 0 | 1 | 0 | 2 | 1 | 0 |
| Social and behavioral sciences | NA | NA | NA | 26 | 4 | 5 | 9 | 8 | 8 |
| Engineering | NA | NA | NA | 0 | 0 | 0 | 0 | 0 | 1 |
| Croatia | | | | | | | | | |
| All fields | NA | NA | NA | 830 | 855 | 878 | 646 | 716 | 647 |
| All S&E | NA | NA | NA | 430 | 563 | 491 | 302 | 357 | 322 |

Table SHED-12

S&E doctoral degrees, by selected region, country, or economy and field: 2010–18

(Number)

| Region, country, or economy and field | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Physical and biological sciences and mathematics and statistics | NA | NA | NA | 108 | 155 | 166 | 84 | 120 | 108 |
| Computer sciences | NA | NA | NA | 24 | 29 | 11 | 23 | 7 | 15 |
| Agricultural sciences | NA | NA | NA | 59 | 50 | 64 | 35 | 39 | 29 |
| Social and behavioral sciences | NA | NA | NA | 104 | 186 | 105 | 68 | 78 | 71 |
| Engineering | NA | NA | NA | 135 | 143 | 145 | 92 | 113 | 99 |
| Cyprus | | | | | | | | | |
| All fields | 30 | NA | NA | 52 | 60 | 77 | 99 | 92 | 120 |
| All S&E | 17 | NA | NA | 35 | 37 | 47 | 63 | 53 | 66 |
| Physical and biological sciences and mathematics and statistics | 6 | NA | NA | 13 | 14 | 14 | 25 | 12 | 12 |
| Computer sciences | 6 | NA | NA | 4 | 4 | 2 | 4 | 8 | 8 |
| Agricultural sciences | 0 | NA | NA | 1 | 0 | 3 | 0 | 4 | 3 |
| Social and behavioral sciences | 2 | NA | NA | 4 | 6 | 10 | 15 | 14 | 21 |
| Engineering | 3 | NA | NA | 13 | 13 | 18 | 19 | 15 | 22 |
| Czechia | | | | | | | | | |
| All fields | 2,229 | 2,462 | 2,683 | 2,433 | 2,484 | 2,440 | 2,379 | 2,435 | 2,409 |
| All S&E | 1,413 | 1,564 | 1,672 | 1,515 | 1,551 | 1,452 | 1,408 | 1,503 | 1,502 |
| Physical and biological sciences and mathematics and statistics | 586 | 623 | 621 | 585 | 613 | 543 | 529 | 573 | 561 |
| Computer sciences | 75 | 81 | 97 | 101 | 79 | 76 | 86 | 77 | 74 |
| Agricultural sciences | 132 | 165 | 183 | 150 | 150 | 117 | 119 | 109 | 102 |
| Social and behavioral sciences | 132 | 188 | 187 | 166 | 153 | 145 | 158 | 170 | 176 |
| Engineering | 488 | 507 | 584 | 513 | 556 | 571 | 516 | 574 | 589 |
| Denmark | | | | | | | | | |
| All fields | 1,428 | 1,569 | 1,640 | 1,888 | 2,126 | 2,176 | 2,198 | 2,232 | 2,094 |
| All S&E | 831 | 967 | 1,033 | 1,224 | 1,289 | 1,354 | 1,385 | 1,329 | 1,252 |
| Physical and biological sciences and mathematics and statistics | 269 | 283 | 303 | 335 | 373 | 397 | 379 | 388 | 321 |
| Computer sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Agricultural sciences | 76 | 112 | 138 | 210 | 230 | 211 | 167 | 139 | 171 |
| Social and behavioral sciences | 171 | 201 | 176 | 197 | 213 | 228 | 282 | 275 | 219 |
| Engineering | 315 | 371 | 416 | 482 | 473 | 518 | 557 | 527 | 541 |
| Estonia | | | | | | | | | |
| All fields | 175 | 250 | 190 | 233 | 213 | 208 | 239 | 253 | 244 |
| All S&E | 112 | 167 | 142 | 148 | 151 | 143 | 165 | 184 | 164 |
| Physical and biological sciences and mathematics and statistics | 56 | 74 | 62 | 68 | 71 | 64 | 72 | 84 | 62 |
| Computer sciences | 12 | 17 | 14 | 13 | 9 | 16 | 16 | 19 | 29 |
| Agricultural sciences | 6 | 6 | 9 | 8 | 12 | 7 | 11 | 13 | 7 |
| Social and behavioral sciences | 11 | 36 | 22 | 18 | 23 | 18 | 21 | 33 | 15 |
| Engineering | 27 | 34 | 35 | 41 | 36 | 38 | 45 | 35 | 51 |
| Finland | | | | | | | | | |
| All fields | 1,748 | 1,843 | 1,828 | 1,899 | 2,013 | 2,000 | 2,009 | 1,853 | 1,865 |
| All S&E | 983 | 1,034 | 1,006 | 1,104 | 1,145 | 1,170 | 1,164 | 1,047 | 1,063 |
| Physical and biological sciences and mathematics and statistics | 308 | 323 | 311 | 315 | 339 | 355 | 364 | 308 | 294 |
| Computer sciences | 119 | 147 | 137 | 155 | 166 | 152 | 156 | 133 | 145 |
| Agricultural sciences | 38 | 57 | 47 | 55 | 62 | 77 | 73 | 58 | 55 |
| Social and behavioral sciences | 214 | 229 | 212 | 222 | 222 | 206 | 220 | 216 | 207 |
| Engineering | 304 | 278 | 299 | 357 | 356 | 380 | 351 | 332 | 362 |

Table SHED-12

S&E doctoral degrees, by selected region, country, or economy and field: 2010–18

(Number)

| Region, country, or economy and field | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| France | | | | | | | | | |
| All fields | 12,666 | 13,188 | 13,278 | 13,419 | 13,729 | 13,774 | 13,016 | 13,583 | 13,729 |
| All S&E | 9,025 | 9,466 | 9,692 | 9,731 | 10,023 | 10,020 | 9,564 | 9,755 | 8,987 |
| Physical and biological sciences and mathematics and statistics | 5,336 | 5,488 | 5,726 | 5,805 | 5,731 | 5,848 | 5,788 | 5,813 | 4,723 |
| Computer sciences | 659 | 697 | 672 | 698 | 736 | 778 | 630 | 729 | 709 |
| Agricultural sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 155 |
| Social and behavioral sciences | 1,457 | 1,453 | 1,480 | 1,433 | 1,684 | 1,493 | 1,389 | 1,289 | 1,419 |
| Engineering | 1,573 | 1,828 | 1,814 | 1,795 | 1,872 | 1,901 | 1,757 | 1,924 | 1,981 |
| Germany | | | | | | | | | |
| All fields | 26,039 | 27,354 | 27,099 | 27,707 | 28,147 | 29,218 | 29,303 | 28,404 | 27,838 |
| All S&E | 12,576 | 13,281 | 13,666 | 14,936 | 14,912 | 15,957 | 15,871 | 15,761 | 15,061 |
| Physical and biological sciences and mathematics and statistics | 6,816 | 7,127 | 7,385 | 8,276 | 8,140 | 8,476 | 8,382 | 8,252 | 8,084 |
| Computer sciences | 838 | 906 | 886 | 941 | 994 | 1,103 | 1,021 | 973 | 873 |
| Agricultural sciences | 880 | 902 | 925 | 803 | 834 | 899 | 898 | 986 | 821 |
| Social and behavioral sciences | 1,528 | 1,562 | 1,658 | 1,769 | 1,730 | 1,736 | 1,860 | 1,790 | 1,672 |
| Engineering | 2,514 | 2,784 | 2,812 | 3,147 | 3,214 | 3,743 | 3,710 | 3,760 | 3,611 |
| Greece | | | | | | | | | |
| All fields | 1,898 | 1,696 | 1,734 | 1,527 | 1,794 | 1,794 | 2,003 | 1,877 | 1,558 |
| All S&E | 1,070 | 900 | 745 | 834 | 786 | 786 | 894 | 933 | 683 |
| Physical and biological sciences and mathematics and statistics | 278 | 244 | 221 | 221 | 223 | 223 | 221 | 254 | 206 |
| Computer sciences | 133 | 85 | 70 | 95 | 58 | 58 | 71 | 83 | 46 |
| Agricultural sciences | 159 | 80 | 79 | 88 | 51 | 51 | 57 | 42 | 47 |
| Social and behavioral sciences | 139 | 137 | 95 | 149 | 106 | 106 | 187 | 122 | 111 |
| Engineering | 361 | 354 | 280 | 281 | 348 | 348 | 358 | 432 | 273 |
| Hungary | | | | | | | | | |
| All fields | 1,275 | 1,234 | 1,242 | 1,069 | 1,154 | 1,206 | 1,255 | 1,177 | 1,287 |
| All S&E | 643 | 533 | 569 | 604 | 659 | 589 | 609 | 545 | 608 |
| Physical and biological sciences and mathematics and statistics | 345 | 254 | 257 | 249 | 236 | 240 | 233 | 240 | 255 |
| Computer sciences | 51 | 31 | 36 | 52 | 66 | 55 | 44 | 36 | 47 |
| Agricultural sciences | 84 | 83 | 97 | 57 | 67 | 32 | 67 | 36 | 52 |
| Social and behavioral sciences | 63 | 93 | 80 | 150 | 162 | 136 | 161 | 146 | 137 |
| Engineering | 100 | 72 | 99 | 96 | 128 | 126 | 104 | 87 | 117 |
| Iceland | | | | | | | | | |
| All fields | 36 | NA | 40 | 55 | 88 | 67 | 72 | 64 | 61 |
| All S&E | 26 | NA | 19 | 29 | 41 | 36 | 33 | 32 | 32 |
| Physical and biological sciences and mathematics and statistics | 17 | NA | 12 | 19 | 23 | 25 | 19 | 22 | 17 |
| Computer sciences | 2 | NA | 2 | 2 | 3 | 1 | 1 | 0 | 2 |
| Agricultural sciences | 1 | NA | 0 | 0 | 2 | 0 | 1 | 0 | 0 |
| Social and behavioral sciences | 0 | NA | 2 | 5 | 6 | 3 | 3 | 6 | 10 |
| Engineering | 6 | NA | 3 | 3 | 7 | 7 | 9 | 4 | 3 |
| India | | | | | | | | | |
| All fields | NA | 21,544 | 23,630 | 23,861 | 21,830 | 24,171 | 28,779 | 34,400 | 40,813 |
| All S&E | NA | 14,191 | 15,132 | 15,500 | 13,616 | 15,780 | 17,905 | 23,246 | 26,890 |
| Physical and biological sciences and mathematics and statistics | NA | 5,442 | 4,381 | 5,910 | 5,721 | 6,678 | 8,089 | 8,914 | 10,055 |
| Computer sciences | NA | 240 | 291 | 491 | 321 | 487 | 383 | 382 | 499 |

Table SHED-12

S&E doctoral degrees, by selected region, country, or economy and field: 2010–18

(Number)

| Region, country, or economy and field | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Agricultural sciences | NA | 1,997 | 3,422 | 2,627 | 1,867 | 2,353 | 2,246 | 4,763 | 5,154 |
| Social and behavioral sciences | NA | 4,431 | 4,852 | 3,889 | 3,110 | 3,477 | 3,821 | 4,280 | 4,022 |
| Engineering | NA | 2,081 | 2,186 | 2,583 | 2,597 | 2,785 | 3,366 | 4,907 | 7,160 |
| Indonesia | | | | | | | | | |
| All fields | 2,260 | 3,911 | 4,104 | NA | 3,591 | 5,363 | 3,838 | NA | NA |
| All S&E | NA | NA | NA | NA | 930 | 1,309 | NA | NA | NA |
| Physical and biological sciences and mathematics and statistics | NA | NA | NA | NA | 170 | 95 | NA | NA | NA |
| Computer sciences | NA | NA | NA | NA | 46 | 25 | NA | NA | NA |
| Agricultural sciences | NA | NA | NA | NA | 410 | 357 | NA | NA | NA |
| Social and behavioral sciences | NA | NA | NA | NA | 0 | 676 | NA | NA | NA |
| Engineering | NA | NA | NA | NA | 304 | 156 | NA | NA | NA |
| Ireland | | | | | | | | | |
| All fields | 1,222 | 1,447 | 1,448 | 1,532 | 1,738 | 1,749 | 1,429 | 1,445 | 1,466 |
| All S&E | 714 | 802 | 846 | 849 | 833 | 1,069 | 856 | 833 | 822 |
| Physical and biological sciences and mathematics and statistics | 323 | 369 | 384 | 385 | 423 | 502 | 369 | 322 | 356 |
| Computer sciences | 71 | 83 | 128 | 76 | 106 | 85 | 86 | 56 | 61 |
| Agricultural sciences | 37 | 15 | 15 | 40 | 20 | 32 | 23 | 32 | 39 |
| Social and behavioral sciences | 86 | 120 | 111 | 130 | 127 | 222 | 180 | 203 | 181 |
| Engineering | 197 | 215 | 208 | 218 | 157 | 228 | 198 | 220 | 185 |
| Israel | | | | | | | | | |
| All fields | 1,534 | 1,536 | 1,586 | 1,541 | 1,546 | 1,617 | 1,570 | 1,618 | 1,570 |
| All S&E | 1,009 | 1,048 | 1,056 | 1,040 | 1,113 | 1,203 | 1,151 | 1,150 | 982 |
| Physical and biological sciences and mathematics and statistics | 572 | 614 | 608 | 617 | 707 | 739 | 680 | 644 | 526 |
| Computer sciences | 76 | 62 | 61 | 57 | 63 | 74 | 62 | 95 | 72 |
| Agricultural sciences | 27 | 31 | 25 | 36 | 25 | 40 | 23 | 28 | 26 |
| Social and behavioral sciences | 206 | 195 | 219 | 190 | 183 | 203 | 210 | 200 | 182 |
| Engineering | 128 | 146 | 143 | 140 | 135 | 147 | 176 | 183 | 176 |
| Italy | | | | | | | | | |
| All fields | NA | 11,270 | 11,458 | 10,687 | 10,678 | 10,485 | 9,803 | 9,399 | 7,974 |
| All S&E | NA | 6,409 | 6,294 | 6,131 | 6,185 | 5,976 | 5,656 | 5,531 | 4,758 |
| Physical and biological sciences and mathematics and statistics | NA | 2,531 | 2,569 | 2,502 | 2,571 | 2,569 | 2,346 | 2,173 | 1,882 |
| Computer sciences | NA | 140 | 124 | 135 | 134 | 664 | 477 | 225 | 188 |
| Agricultural sciences | NA | 684 | 688 | 650 | 619 | 622 | 499 | 513 | 382 |
| Social and behavioral sciences | NA | 971 | 877 | 810 | 808 | 523 | 538 | 599 | 520 |
| Engineering | NA | 2,083 | 2,036 | 2,034 | 2,053 | 1,598 | 1,796 | 2,021 | 1,786 |
| Japan ^b | | | | | | | | | |
| All fields | 16,760 | 15,911 | 15,902 | 15,427 | 16,471 | 15,714 | 15,804 | 15,674 | 15,690 |
| All S&E | 7,470 | 7,100 | 7,100 | 6,791 | 7,357 | 7,540 | 7,391 | 6,745 | 6,754 |
| Physical and biological sciences and mathematics and statistics | 1,534 | 1,436 | 1,394 | 1,423 | 2,207 | 2,359 | 2,316 | 2,090 | 2,090 |
| Computer sciences | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Agricultural sciences | 1,233 | 1,046 | 1,059 | 1,062 | 1,000 | 911 | 881 | 909 | 899 |
| Social and behavioral sciences | 1,010 | 1,019 | 1,011 | 850 | 481 | 776 | 754 | 422 | 415 |
| Engineering | 3,693 | 3,599 | 3,636 | 3,456 | 3,669 | 3,494 | 3,440 | 3,324 | 3,350 |
| Latvia | | | | | | | | | |
| All fields | 132 | 297 | 267 | 315 | 264 | 255 | 197 | 151 | 123 |
| All S&E | 78 | 154 | 158 | 173 | 164 | 146 | 116 | 77 | 80 |

Table SHED-12

S&E doctoral degrees, by selected region, country, or economy and field: 2010–18

(Number)

| Region, country, or economy and field | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Physical and biological sciences and mathematics and statistics | 16 | 64 | 38 | 51 | 34 | 54 | 45 | 19 | 33 |
| Computer sciences | 4 | 10 | 15 | 17 | 12 | 9 | 8 | 7 | 4 |
| Agricultural sciences | 10 | 12 | 5 | 10 | 9 | 1 | 6 | 4 | 7 |
| Social and behavioral sciences | 18 | 27 | 40 | 30 | 37 | 28 | 23 | 17 | 13 |
| Engineering | 30 | 41 | 60 | 65 | 72 | 54 | 34 | 30 | 23 |
| Lithuania | | | | | | | | | |
| All fields | 406 | 353 | 398 | 441 | 411 | 417 | 324 | 329 | 349 |
| All S&E | 254 | 219 | 266 | 281 | 262 | 246 | 187 | 214 | 214 |
| Physical and biological sciences and mathematics and statistics | 75 | 63 | 72 | 64 | 84 | 92 | 62 | 83 | 83 |
| Computer sciences | 11 | 11 | 4 | 13 | 11 | 8 | 6 | 8 | 6 |
| Agricultural sciences | 16 | 31 | 29 | 21 | 23 | 16 | 18 | 16 | 25 |
| Social and behavioral sciences | 71 | 53 | 71 | 62 | 47 | 45 | 44 | 32 | 36 |
| Engineering | 81 | 61 | 90 | 121 | 97 | 85 | 57 | 75 | 64 |
| Luxembourg | | | | | | | | | |
| All fields | NA | NA | 57 | 64 | 82 | 107 | 107 | 152 | 135 |
| All S&E | NA | NA | 41 | 45 | 55 | 74 | 78 | 109 | 107 |
| Physical and biological sciences and mathematics and statistics | NA | NA | 17 | 12 | 17 | 24 | 26 | 35 | 46 |
| Computer sciences | NA | NA | 12 | 13 | 16 | 28 | 19 | 34 | 24 |
| Agricultural sciences | NA | NA | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Social and behavioral sciences | NA | NA | 5 | 11 | 14 | 15 | 19 | 23 | 19 |
| Engineering | NA | NA | 7 | 9 | 8 | 7 | 14 | 17 | 18 |
| Malta | | | | | | | | | |
| All fields | NA | NA | NA | 24 | 22 | 30 | 45 | 54 | 53 |
| All S&E | NA | NA | NA | 12 | 13 | 15 | 19 | 20 | 17 |
| Physical and biological sciences and mathematics and statistics | NA | NA | NA | 2 | 4 | 6 | 10 | 8 | 8 |
| Computer sciences | NA | NA | NA | 1 | 0 | 0 | 1 | 1 | 2 |
| Agricultural sciences | NA | NA | NA | 0 | 0 | 0 | 0 | 0 | 0 |
| Social and behavioral sciences | NA | NA | NA | 3 | 0 | 3 | 2 | 3 | 5 |
| Engineering | NA | NA | NA | 6 | 9 | 6 | 6 | 8 | 2 |
| Mexico | | | | | | | | | |
| All fields | 4,167 | 3,795 | 5,119 | 5,013 | 5,782 | 6,050 | 9,268 | 9,310 | 10,486 |
| All S&E | 2,015 | 1,672 | 2,223 | 2,213 | 2,365 | 2,560 | 2,654 | 2,874 | 3,180 |
| Physical and biological sciences and mathematics and statistics | 890 | 608 | 756 | 720 | 753 | 758 | 792 | 968 | 1,227 |
| Computer sciences | 26 | 22 | 30 | 47 | 65 | 64 | 65 | 127 | 98 |
| Agricultural sciences | 104 | 101 | 218 | 133 | 148 | 183 | 233 | 224 | 219 |
| Social and behavioral sciences | 588 | 534 | 617 | 680 | 617 | 672 | 848 | 855 | 973 |
| Engineering | 407 | 407 | 602 | 633 | 782 | 883 | 716 | 700 | 663 |
| Netherlands | | | | | | | | | |
| All fields | 3,736 | 3,715 | 4,040 | 4,321 | 4,528 | 4,663 | NA | 4,747 | 4,781 |
| All S&E | 946 | 949 | 1,232 | 1,730 | 1,790 | NA | NA | 2,221 | 2,197 |
| Physical and biological sciences and mathematics and statistics | NA | NA | NA | 642 | 626 | NA | NA | 760 | 800 |
| Computer sciences | NA | NA | NA | NA | NA | NA | NA | 115 | 102 |
| Agricultural sciences | 237 | 230 | 213 | 280 | 340 | NA | NA | 325 | 314 |
| Social and behavioral sciences | NA | NA | NA | NA | NA | NA | NA | 486 | 421 |
| Engineering | 709 | 719 | 1,019 | 808 | 824 | NA | NA | 535 | 560 |

Table SHED-12

S&E doctoral degrees, by selected region, country, or economy and field: 2010–18

(Number)

| Region, country, or economy and field | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| New Zealand | | | | | | | | | |
| All fields | 1,005 | 1,106 | 1,053 | 1,288 | 1,414 | 1,332 | 1,296 | 1,483 | 1,413 |
| All S&E | 613 | 655 | 642 | 819 | 907 | 851 | 804 | 897 | 873 |
| Physical and biological sciences and mathematics and statistics | 287 | 264 | 300 | 353 | 358 | 363 | 348 | 355 | 346 |
| Computer sciences | 59 | 49 | 49 | 63 | 70 | 58 | 52 | 59 | 57 |
| Agricultural sciences | 26 | 41 | 23 | 37 | 77 | 33 | 39 | 56 | 42 |
| Social and behavioral sciences | 135 | 173 | 132 | 188 | 172 | 180 | 180 | 211 | 195 |
| Engineering | 107 | 129 | 138 | 178 | 231 | 218 | 185 | 216 | 233 |
| Norway | | | | | | | | | |
| All fields | 1,202 | 1,298 | 1,408 | 1,549 | 1,442 | 1,407 | 1,368 | 1,489 | 1,500 |
| All S&E | 507 | 129 | 148 | 850 | 776 | 734 | 732 | 764 | 780 |
| Physical and biological sciences and mathematics and statistics | NA | NA | NA | 454 | 393 | 389 | 376 | 404 | 411 |
| Computer sciences | 432 | NA | NA | 39 | 28 | 23 | 26 | 29 | 24 |
| Agricultural sciences | 14 | 22 | 20 | 21 | 33 | 21 | 16 | 20 | 22 |
| Social and behavioral sciences | 55 | 100 | 119 | 174 | 166 | 176 | 168 | 165 | 169 |
| Engineering | 6 | 7 | 9 | 162 | 156 | 125 | 146 | 146 | 154 |
| Poland | | | | | | | | | |
| All fields | 3,317 | 3,055 | 3,590 | 3,719 | 3,376 | 3,787 | 3,764 | 3,196 | 3,657 |
| All S&E | NA | NA | NA | NA | 1,811 | 2,051 | 2,017 | 1,701 | 1,856 |
| Physical and biological sciences and mathematics and statistics | NA | NA | NA | NA | 734 | 850 | 808 | 712 | 756 |
| Computer sciences | NA | NA | NA | NA | 10 | 82 | 59 | 48 | 59 |
| Agricultural sciences | NA | NA | NA | NA | 227 | 182 | 183 | 136 | 172 |
| Social and behavioral sciences | NA | NA | NA | NA | 279 | 361 | 382 | 302 | 365 |
| Engineering | NA | NA | NA | NA | 561 | 576 | 585 | 503 | 504 |
| Portugal | | | | | | | | | |
| All fields | 1,414 | 1,608 | 1,859 | 2,463 | 2,503 | 2,351 | 2,344 | 2,135 | 2,266 |
| All S&E | 882 | 1,054 | 1,119 | 1,491 | 1,441 | 1,294 | 1,329 | 1,177 | 1,237 |
| Physical and biological sciences and mathematics and statistics | 330 | 386 | 430 | 508 | 467 | 357 | 430 | 385 | 393 |
| Computer sciences | 27 | 32 | 44 | 60 | 88 | 88 | 72 | 72 | 76 |
| Agricultural sciences | 34 | 36 | 29 | 39 | 37 | 43 | 42 | 39 | 40 |
| Social and behavioral sciences | 194 | 189 | 257 | 360 | 358 | 315 | 286 | 264 | 293 |
| Engineering | 297 | 411 | 359 | 524 | 491 | 491 | 499 | 417 | 435 |
| Romania | | | | | | | | | |
| All fields | NA | NA | NA | 5,370 | 3,777 | 3,992 | 2,260 | 1,888 | 1,843 |
| All S&E | NA | NA | NA | 2,756 | 1,982 | 2,038 | 1,070 | 839 | 811 |
| Physical and biological sciences and mathematics and statistics | NA | NA | NA | 517 | 350 | 340 | 237 | 156 | 155 |
| Computer sciences | NA | NA | NA | 0 | 0 | 103 | 53 | 38 | 61 |
| Agricultural sciences | NA | NA | NA | 390 | 231 | 328 | 134 | 92 | 100 |
| Social and behavioral sciences | NA | NA | NA | 431 | 337 | 361 | 229 | 205 | 169 |
| Engineering | NA | NA | NA | 1,418 | 1,064 | 906 | 417 | 348 | 326 |
| Russia | | | | | | | | | |
| All fields | 33,203 | 32,718 | 34,403 | 36,533 | 44,128 | 29,632 | 27,212 | 27,338 | 18,322 |
| All S&E | 21,436 | 16,763 | NA | 19,340 | 24,522 | 18,502 | 14,376 | 15,465 | 10,410 |
| Physical and biological sciences and mathematics and statistics | 5,684 | 5,718 | NA | 6,055 | 5,762 | 4,590 | 3,781 | 4,581 | 3,085 |
| Computer sciences | 2,050 | 1,498 | NA | 3,015 | 2,504 | 2,033 | 1,860 | 1,913 | 839 |

Table SHED-12

S&E doctoral degrees, by selected region, country, or economy and field: 2010–18

(Number)

| Region, country, or economy and field | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Agricultural sciences | 1,359 | 1,547 | NA | 1,223 | 2,971 | 1,064 | 1,045 | 1,003 | 861 |
| Social and behavioral sciences | 7,457 | 3,160 | NA | 3,371 | 6,989 | 5,267 | 2,468 | 2,294 | 2,770 |
| Engineering | 4,886 | 4,840 | NA | 5,676 | 6,296 | 5,548 | 5,222 | 5,674 | 2,855 |
| Saudi Arabia | | | | | | | | | |
| All fields | NA | 391 | 557 | 400 | NA | NA | 247 | NA | NA |
| All S&E | NA | 95 | 112 | 21 | 68 | 68 | 65 | NA | NA |
| Physical and biological sciences and mathematics and statistics | NA | 52 | 58 | NA | 33 | 33 | 32 | NA | NA |
| Computer sciences | NA | 0 | 1 | NA | NA | NA | 8 | NA | NA |
| Agricultural sciences | NA | 0 | 1 | 4 | 18 | 18 | 3 | NA | NA |
| Social and behavioral sciences | NA | 31 | 38 | NA | 12 | 12 | 13 | NA | NA |
| Engineering | NA | 12 | 14 | 17 | 5 | 5 | 9 | NA | NA |
| Slovakia | | | | | | | | | |
| All fields | 2,878 | 1,672 | 2,181 | 2,119 | 2,182 | 1,914 | 1,771 | 1,660 | 1,408 |
| All S&E | 1,386 | 814 | 1,115 | 1,152 | 1,148 | 1,005 | 911 | 825 | 711 |
| Physical and biological sciences and mathematics and statistics | 408 | 192 | 257 | 350 | 372 | 318 | 302 | 281 | 265 |
| Computer sciences | 61 | 45 | 32 | 57 | 55 | 56 | 57 | 33 | 34 |
| Agricultural sciences | 131 | 70 | 81 | 67 | 86 | 47 | 70 | 48 | 46 |
| Social and behavioral sciences | 210 | 97 | 179 | 177 | 211 | 192 | 165 | 162 | 125 |
| Engineering | 576 | 410 | 566 | 501 | 424 | 392 | 317 | 301 | 241 |
| Slovenia | | | | | | | | | |
| All fields | 1,248 | 1,239 | 1,158 | 1,166 | 1,003 | 1,000 | 3,763 | 514 | 461 |
| All S&E | 659 | 593 | 677 | 742 | 662 | 625 | 1,602 | 235 | 211 |
| Physical and biological sciences and mathematics and statistics | 185 | 92 | 146 | 221 | 203 | 168 | 258 | 68 | 65 |
| Computer sciences | 35 | 43 | 68 | 44 | 36 | 44 | 188 | 17 | 28 |
| Agricultural sciences | 26 | 33 | 105 | 110 | 110 | 117 | 117 | 2 | 1 |
| Social and behavioral sciences | 194 | 204 | 194 | 141 | 133 | 108 | 562 | 23 | 16 |
| Engineering | 219 | 221 | 164 | 226 | 180 | 188 | 477 | 125 | 101 |
| South Africa | | | | | | | | | |
| All fields | 1,381 | 1,422 | 1,586 | 1,845 | 2,270 | 2,536 | NA | NA | NA |
| All S&E | 714 | 784 | 886 | 242 | 1,175 | 1,313 | NA | NA | NA |
| Physical and biological sciences and mathematics and statistics | 331 | 409 | 444 | NA | 572 | 616 | NA | NA | NA |
| Computer sciences | 24 | 30 | 42 | NA | 55 | 51 | NA | NA | NA |
| Agricultural sciences | 76 | 71 | 93 | 90 | 79 | 121 | NA | NA | NA |
| Social and behavioral sciences | 178 | 163 | 174 | NA | 293 | 304 | NA | NA | NA |
| Engineering | 105 | 111 | 133 | 152 | 176 | 221 | NA | NA | NA |
| South Korea | | | | | | | | | |
| All fields | 10,542 | 11,645 | 12,243 | 12,625 | 12,931 | 13,077 | 13,882 | 14,316 | 14,674 |
| All S&E | 4,421 | 5,454 | 5,713 | 5,963 | 6,087 | 6,104 | 6,557 | 6,903 | 7,077 |
| Physical and biological sciences and mathematics and statistics | 1,194 | 1,582 | 1,699 | 1,604 | 1,734 | 1,751 | 1,861 | 1,897 | 1,862 |
| Computer sciences | 116 | 151 | 149 | 472 | 491 | 150 | 154 | 471 | 495 |
| Agricultural sciences | 276 | 276 | 260 | 332 | 328 | 271 | 286 | 345 | 332 |
| Social and behavioral sciences | 461 | 510 | 579 | 558 | 547 | 668 | 737 | 693 | 727 |
| Engineering | 2,374 | 2,935 | 3,026 | 2,997 | 2,987 | 3,264 | 3,519 | 3,497 | 3,661 |
| Spain | | | | | | | | | |
| All fields | 8,846 | 8,747 | 9,483 | 10,504 | 10,889 | 11,316 | 14,694 | 20,049 | 17,286 |
| All S&E | 5,101 | 5,576 | 5,812 | 6,474 | 6,708 | 7,174 | 8,373 | 10,711 | 9,480 |

Table SHED-12

S&E doctoral degrees, by selected region, country, or economy and field: 2010–18

(Number)

| Region, country, or economy and field | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Physical and biological sciences and mathematics and statistics | 2,099 | 3,211 | 3,053 | 3,374 | 3,400 | 4,267 | 4,706 | 5,536 | 5,177 |
| Computer sciences | 474 | 507 | 422 | 439 | 520 | 726 | 775 | 958 | 822 |
| Agricultural sciences | 294 | 218 | 298 | 297 | 235 | 193 | 248 | 360 | 288 |
| Social and behavioral sciences | 938 | 1,032 | 1,237 | 1,439 | 1,367 | 1,132 | 1,503 | 2,256 | 1,950 |
| Engineering | 1,296 | 608 | 802 | 925 | 1,186 | 856 | 1,141 | 1,601 | 1,243 |
| Sweden | | | | | | | | | |
| All fields | 3,371 | 3,356 | 3,343 | 3,345 | 3,584 | 3,647 | 3,533 | 3,586 | 3,212 |
| All S&E | 1,953 | 1,971 | 1,974 | 2,055 | 2,149 | 2,211 | 2,188 | 2,184 | 1,806 |
| Physical and biological sciences and mathematics and statistics | 673 | 678 | 726 | 670 | 695 | 763 | 745 | 728 | 616 |
| Computer sciences | 106 | 139 | 141 | 125 | 184 | 175 | 177 | 187 | 171 |
| Agricultural sciences | 59 | 60 | 58 | 68 | 55 | 51 | 81 | 82 | 35 |
| Social and behavioral sciences | 272 | 272 | 220 | 246 | 260 | 266 | 258 | 295 | 259 |
| Engineering | 843 | 822 | 829 | 946 | 955 | 956 | 927 | 892 | 725 |
| Switzerland | | | | | | | | | |
| All fields | 3,591 | 3,490 | 3,650 | 3,641 | 3,849 | 3,853 | 3,935 | 4,150 | 4,163 |
| All S&E | 1,986 | 2,075 | 2,142 | 2,103 | 2,352 | 2,325 | 2,441 | 2,536 | 2,531 |
| Physical and biological sciences and mathematics and statistics | 1,027 | 1,109 | 1,126 | 1,152 | 1,217 | 1,191 | 1,253 | 1,324 | 1,297 |
| Computer sciences | 100 | 96 | 137 | 83 | 116 | 122 | 120 | 143 | 118 |
| Agricultural sciences | 158 | 119 | 118 | 106 | 105 | 98 | 122 | 124 | 107 |
| Social and behavioral sciences | 264 | 306 | 269 | 296 | 317 | 330 | 319 | 323 | 365 |
| Engineering | 437 | 445 | 492 | 466 | 597 | 584 | 627 | 622 | 644 |
| Taiwan | | | | | | | | | |
| All fields | 3,705 | 3,846 | 3,861 | 4,241 | 4,048 | 4,000 | 3,623 | 3,512 | 3,423 |
| All S&E | 2,532 | 2,498 | 2,519 | 2,706 | 2,514 | 2,461 | 2,164 | 2,073 | 1,949 |
| Physical and biological sciences and mathematics and statistics | 568 | 569 | 597 | 685 | 620 | 600 | 565 | 603 | 572 |
| Computer sciences | 74 | 76 | 74 | 79 | 57 | 59 | 51 | 151 | 141 |
| Agricultural sciences | 108 | 93 | 120 | 116 | 117 | 121 | 101 | 68 | 63 |
| Social and behavioral sciences | 174 | 159 | 185 | 189 | 204 | 220 | 203 | 142 | 126 |
| Engineering | 1,608 | 1,601 | 1,543 | 1,637 | 1,516 | 1,461 | 1,244 | 1,109 | 1,047 |
| Turkey | | | | | | | | | |
| All fields | 9,785 | 9,653 | 8,734 | 8,734 | 4,516 | 5,192 | 6,052 | 6,045 | 7,332 |
| All S&E | 2,562 | 2,479 | 2,392 | 2,392 | 2,188 | 2,532 | 3,004 | 3,036 | 3,637 |
| Physical and biological sciences and mathematics and statistics | 778 | 969 | 1,088 | 1,088 | 844 | 961 | 1,207 | 1,130 | 1,239 |
| Computer sciences | 74 | 74 | 69 | 69 | 5 | 6 | 34 | 13 | 39 |
| Agricultural sciences | 382 | 282 | 249 | 249 | 212 | 220 | 210 | 224 | 322 |
| Social and behavioral sciences | 594 | 366 | 358 | 358 | 388 | 411 | 465 | 524 | 616 |
| Engineering | 734 | 788 | 628 | 628 | 739 | 934 | 1,088 | 1,145 | 1,421 |
| United Kingdom | | | | | | | | | |
| All fields | 18,756 | 20,076 | 20,438 | 25,896 | 25,020 | 26,636 | 26,636 | 27,366 | 29,469 |
| All S&E | 11,322 | 11,859 | 12,103 | 14,732 | 14,271 | 15,338 | 15,338 | 15,757 | 17,366 |
| Physical and biological sciences and mathematics and statistics | 4,696 | 4,965 | 4,874 | 7,454 | 7,198 | 7,634 | 7,634 | 7,763 | 8,737 |
| Computer sciences | 843 | 871 | 902 | 1,038 | 925 | 1,023 | 1,023 | 1,136 | 1,216 |
| Agricultural sciences | 215 | 218 | 232 | 305 | 288 | 313 | 313 | 334 | 364 |
| Social and behavioral sciences | 2,787 | 2,954 | 3,091 | 2,349 | 2,339 | 2,599 | 2,599 | 2,559 | 2,750 |
| Engineering | 2,780 | 2,851 | 3,004 | 3,586 | 3,521 | 3,768 | 3,768 | 3,965 | 4,299 |

Table SHED-12

S&E doctoral degrees, by selected region, country, or economy and field: 2010–18

(Number)

| Region, country, or economy and field | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| United States | | | | | | | | | |
| All fields | 57,407 | 59,814 | 62,276 | 65,020 | 67,438 | 68,923 | 69,525 | 71,042 | 72,731 |
| All S&E | 33,672 | 35,113 | 36,356 | 37,951 | 39,682 | 39,933 | 39,710 | 40,319 | 41,071 |
| Physical and biological sciences and mathematics and statistics | 14,777 | 15,114 | 15,519 | 15,949 | 16,588 | 16,344 | 16,466 | 16,735 | 17,076 |
| Computer sciences | 1,563 | 1,572 | 1,703 | 1,822 | 1,946 | 1,963 | 1,951 | 1,955 | 1,996 |
| Agricultural sciences | 825 | 884 | 937 | 992 | 952 | 1,052 | 1,003 | 1,034 | 1,021 |
| Social and behavioral sciences | 8,534 | 8,934 | 9,097 | 9,467 | 9,834 | 9,949 | 9,708 | 9,799 | 9,802 |
| Engineering | 7,973 | 8,609 | 9,100 | 9,721 | 10,362 | 10,625 | 10,582 | 10,796 | 11,176 |

NA = not available.

^a China data include computer sciences under engineering.^b Japan data include thesis doctorates, called *ronbun hakase*, earned by employees in industry. Japan data include computer sciences under engineering.**Note(s):**

Physical and biological sciences and mathematics and statistics include biological and related sciences, environmental sciences, and physical sciences. Computer sciences include information and communication technologies. Agricultural sciences include agriculture, forestry, fisheries, and veterinary sciences. Social and behavioral sciences include social and behavioral sciences and also journalism and information. Engineering includes engineering and engineering trades, manufacturing and processing, and architecture and construction. To facilitate international comparison, data for the United States reflect the most recent classification in the International Standard Classification of Education Fields of Education and Training (ISCED-F), which vary slightly from the National Center for Science and Engineering Statistics classification of fields presented in other sections of the report. Data for doctoral degrees use ISCED 2011 level 8. S&E data do not include health fields.

Source(s):

Organisation for Economic Co-operation and Development (OECD), OECD.Stat; Eurostat, Education and training database; National Bureau of Statistics of China, *China Statistical Yearbook* (various years); People's Republic of China, Ministry of Education data (various years); Ministry of Education, *Educational Statistics of the Republic of China (Taiwan)* (various years); Government of Japan, Ministry of Education, Culture, Sports, Science and Technology, Survey of Education (various years); Government of India, Ministry of Human Resource Development, Department of Higher Education, All India Survey on Higher Education (various years).

Science and Engineering Indicators