

Appendix table 2-37

(Page 1 of 2)

Earned S&E doctoral degrees in selected regions and locations, by sex and field: 2000 or 2001 (revised)

| Sex, region, and location | All fields | All S&E | Natural sciences ^a | Mathematics/ computer sciences | Agricultural sciences | Social/ behavioral sciences | Engineering | Non-S&E |
|---------------------------------------|------------|---------|-------------------------------|-----------------------------------|-----------------------|--------------------------------|-------------|---------|
| Male | | | | | | | | |
| Asia | 16,362 | 8,809 | 1,839 | 304 | 1,014 | 887 | 4,765 | 7,266 |
| Japan ^b | 10,177 | 5,397 | 1,149 | 0 | 730 | 706 | 2,812 | 4,780 |
| Kyrgyzstan | 151 | 126 | 81 | 9 | 6 | 4 | 26 | 25 |
| South Korea..... | 4,886 | 2,425 | 501 | 197 | 213 | 96 | 1,418 | 2,461 |
| Taiwan..... | 1,148 | 861 | 108 | 98 | 65 | 81 | 509 | 287 |
| Middle East | 4,310 | 2,648 | 798 | 183 | 179 | 339 | 428 | 1,662 |
| Iran..... | 1,151 | 368 | 84 | 26 | 31 | 45 | 72 | 783 |
| Israel..... | 385 | 303 | 157 | 48 | 12 | 30 | 56 | 82 |
| Morocco..... | 1,439 | 1,275 | 419 | 72 | 0 | 108 | 65 | 164 |
| Turkey..... | 1,335 | 702 | 138 | 37 | 136 | 156 | 235 | 633 |
| Sub-Saharan Africa..... | 1,804 | 523 | 219 | 0 | 114 | 67 | 123 | 1,281 |
| Ghana..... | 740 | 194 | 68 | 0 | 28 | 24 | 74 | 546 |
| Kenya..... | 1,064 | 329 | 151 | 0 | 86 | 43 | 49 | 735 |
| Europe..... | 58,727 | 35,246 | 14,352 | 3,169 | 1,587 | 5,396 | 10,628 | 23,600 |
| European Union..... | 43,283 | 25,812 | 11,263 | 2,887 | 987 | 3,788 | 6,887 | 17,644 |
| Austria..... | 1,142 | 644 | 206 | 76 | 21 | 66 | 275 | 498 |
| Belgium..... | 757 | 536 | 299 | 0 | 37 | 70 | 130 | 221 |
| Denmark..... | 562 | 318 | 143 | 0 | 30 | 0 | 145 | 417 |
| Finland..... | 1,068 | 635 | 166 | 45 | 21 | 114 | 289 | 433 |
| France..... | 5,833 | 4,152 | 2,327 | 635 | 10 | 494 | 686 | 1,681 |
| Germany..... | 17,807 | 9,603 | 4,394 | 883 | 331 | 1,944 | 2,051 | 8,204 |
| Ireland..... | 265 | 175 | 104 | 12 | 14 | 10 | 35 | 90 |
| Italy..... | 1,680 | 988 | 20 | 381 | 76 | 45 | 466 | 692 |
| Netherlands..... | 1,739 | 982 | 345 | 0 | 133 | 151 | 353 | 757 |
| Spain..... | 3,364 | 1,605 | 783 | 204 | 93 | 211 | 314 | 1,759 |
| Sweden..... | 1,932 | 1,303 | 331 | 121 | 42 | 152 | 657 | 629 |
| United Kingdom ^c | 7,130 | 4,870 | 2,150 | 530 | 180 | 530 | 1,490 | 2,260 |
| European Free Trade Association | 2,315 | 1,062 | 520 | 116 | 56 | 78 | 292 | 1,253 |
| Norway..... | 439 | 140 | 3 | 0 | 27 | 46 | 64 | 299 |
| Switzerland..... | 1,876 | 922 | 517 | 116 | 29 | 32 | 228 | 954 |
| Central/Eastern Europe | 13,129 | 8,372 | 2,569 | 166 | 544 | 1,530 | 3,449 | 4,703 |
| Bulgaria..... | 218 | 133 | 29 | 8 | 11 | 6 | 42 | 85 |
| Croatia..... | 180 | 139 | 28 | 7 | 7 | 19 | 43 | 41 |
| Czech Republic..... | 637 | 462 | 123 | 131 | 36 | 29 | 143 | 175 |
| Estonia..... | 72 | 42 | 14 | 1 | 1 | 2 | 9 | 30 |
| Georgia..... | 270 | 169 | 27 | 0 | 9 | 54 | 52 | 47 |
| Hungary..... | 443 | 271 | 107 | 19 | 20 | 56 | 69 | 172 |
| Russia..... | 11,309 | 7,156 | 2,241 | | 460 | 1,364 | 3,091 | 4,153 |
| America..... | 26,305 | 18,302 | 6,816 | 1,602 | 698 | 3,897 | 5,165 | 8,003 |
| Canada..... | 2,427 | 1,542 | 510 | 147 | 78 | 306 | 501 | 885 |
| Costa Rica..... | 476 | 177 | 8 | 44 | 26 | 47 | 0 | 299 |
| Mexico..... | 633 | 421 | 183 | 13 | 39 | 86 | 100 | 212 |
| United States..... | 22,769 | 16,162 | 6,115 | 1,398 | 555 | 3,458 | 4,564 | 6,607 |
| Oceania..... | | | | | | | | |
| Australia..... | 2,211 | 1,372 | 573 | 136 | 120 | 152 | 391 | 839 |
| Female | | | | | | | | |
| Asia..... | 4,536 | 1,599 | 390 | 77 | 270 | 394 | 468 | 2,937 |
| Japan ^b | 2,985 | 1,006 | 194 | 0 | 223 | 320 | 269 | 1,979 |
| Kyrgyzstan..... | 245 | 130 | 80 | 10 | 2 | 16 | 22 | 115 |
| South Korea..... | 991 | 354 | 80 | 58 | 20 | 31 | 165 | 637 |
| Taiwan..... | 315 | 109 | 36 | 9 | 25 | 27 | 12 | 206 |
| Middle East..... | 2,364 | 1,169 | 509 | 58 | 86 | 156 | 166 | 1,195 |
| Iran..... | 595 | 74 | 20 | 7 | 2 | 14 | 4 | 521 |
| Israel..... | 303 | 194 | 114 | 10 | 11 | 38 | 21 | 109 |
| Morocco..... | 677 | 542 | 270 | 17 | 0 | 44 | 44 | 135 |
| Turkey..... | 789 | 359 | 105 | 24 | 73 | 60 | 97 | 430 |
| Sub-Saharan Africa..... | 513 | 190 | 34 | 0 | 28 | 76 | 18 | 323 |
| Ghana..... | 64 | 20 | 3 | 0 | 1 | 5 | 8 | 44 |
| Kenya..... | 449 | 170 | 31 | 0 | 27 | 71 | 10 | 279 |

Appendix table 2-37

(Page 2 of 2)

Earned S&E doctoral degrees in selected regions and locations, by sex and field: 2000 or 2001 (revised)

| Sex, region, and location | All fields | All S&E | Natural sciences ^a | Mathematics/ computer sciences | Agricultural sciences | Social/ behavioral sciences | Engineering | Non-S&E |
|---------------------------------------|------------|---------|-------------------------------|-----------------------------------|-----------------------|--------------------------------|-------------|---------|
| Europe..... | 33,576 | 15,345 | 8,056 | 929 | 816 | 2,990 | 2,405 | 18,305 |
| European Union..... | 24,322 | 11,004 | 6,281 | 873 | 533 | 1,725 | 1,586 | 13,392 |
| Austria | 648 | 269 | 115 | 15 | 9 | 65 | 65 | 379 |
| Belgium | 390 | 253 | 180 | 0 | 11 | 39 | 23 | 137 |
| Denmark..... | 351 | 144 | 64 | 0 | 39 | 0 | 41 | 310 |
| Finland..... | 823 | 339 | 119 | 16 | 15 | 104 | 85 | 484 |
| France..... | 4,070 | 2,425 | 1,632 | 165 | 12 | 382 | 234 | 1,645 |
| Germany..... | 6,989 | 2,200 | 1,580 | 73 | 141 | 237 | 169 | 4,789 |
| Ireland..... | 236 | 150 | 110 | 7 | 2 | 14 | 13 | 57 |
| Italy..... | 1,877 | 743 | 35 | 323 | 87 | 47 | 251 | 1,134 |
| Netherlands..... | 744 | 327 | 119 | 0 | 50 | 91 | 67 | 417 |
| Spain..... | 2,643 | 1,125 | 655 | 119 | 51 | 206 | 94 | 1,518 |
| Sweden..... | 1,117 | 545 | 209 | 28 | 23 | 101 | 184 | 572 |
| United Kingdom ^b | 4,430 | 2,480 | 1,460 | 130 | 90 | 440 | 360 | 1,950 |
| European Free Trade Association | 1,076 | 356 | 209 | 13 | 20 | 71 | 43 | 720 |
| Norway..... | 219 | 55 | 4 | 0 | 9 | 31 | 11 | 164 |
| Switzerland..... | 857 | 301 | 205 | 13 | 11 | 40 | 32 | 556 |
| Central/Eastern Europe | 8,178 | 3,985 | 1,566 | 43 | 263 | 1,194 | 776 | 4,193 |
| Bulgaria..... | 158 | 93 | 22 | 9 | 13 | 2 | 16 | 65 |
| Croatia..... | 158 | 128 | 34 | 7 | 6 | 24 | 16 | 30 |
| Czech Republic..... | 258 | 144 | 60 | 12 | 9 | 22 | 41 | 114 |
| Estonia..... | 77 | 17 | 5 | 2 | 1 | 2 | 0 | 60 |
| Georgia..... | 288 | 209 | 64 | 0 | 6 | 66 | 9 | 79 |
| Hungary..... | 274 | 141 | 55 | 13 | 12 | 27 | 34 | 133 |
| Russia..... | 6,965 | 3,253 | 1,326 | 216 | 1,051 | 660 | 3,712 | |
| America..... | 20,171 | 10,319 | 3,874 | 490 | 336 | 4,515 | 1,033 | 9,902 |
| Canada..... | 1,551 | 707 | 208 | 37 | 34 | 350 | 78 | 844 |
| Costa Rica..... | 359 | 102 | 6 | 17 | 6 | 49 | 1 | 257 |
| Mexico..... | 360 | 207 | 93 | 5 | 8 | 72 | 29 | 153 |
| United States..... | 17,901 | 9,303 | 3,567 | 431 | 288 | 4,044 | 925 | 8,598 |
| Oceania | | | | | | | | |
| Australia..... | 1,476 | 658 | 342 | 39 | 60 | 132 | 85 | 818 |

NA not available

^aNatural sciences include physical, biological, earth, atmospheric, and ocean sciences.^bJapanese data for male/female breakouts are for the number who have completed doctoral degree course work in S&E fields; this number is very close to conferred degrees.^cData for the United Kingdom were revised. Data are now rounded to the nearest 10. Detail may not sum to total because of rounding.

NOTES: Data for doctoral degrees use the International Standard Classification of Education (ISCED 97), level 6. Data from national sources are for 2001; data from international sources are for 2000.

SOURCES: Organisation for Economic Co-operation and Development, Center for Education Research and Innovation, *Education at a Glance 2002*; United Nations Educational, Scientific, and Cultural Organization (UNESCO), the UNESCO Institute for Statistics database, <http://www.unesco.org/statistics>. Japan—Government of Japan, Ministry of Education, Culture and Science, *Monbusho Survey of Education* (Tokyo, 2002); Taiwan—Ministry of Education, *Educational Statistics of the Republic of China: 2002* (Taipei, 2002); Germany—Federal Statistical Office, *Prüfungen an Hochschulen 2001* (Wiesbaden, 2002); United Kingdom—Higher Education Statistics Agency, special tabulations (Cheltenham, 2002); Russia—Center for Science Research and Statistics, unpublished tabulations (2001); Mexico—National Association of Universities and Institutions of Higher Education, *Anuario Estadístico 2001: Población Escolar de Posgrado* (Mexico, 2002); and United States—National Science Foundation, Division of Science Resources Statistics, *Science and Engineering Doctorate Awards: 2001*, NSF 03-300 (Arlington, VA, 2002).