

Appendix table 2-41

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**Earned S&E doctoral degrees, by selected region, country/economy, sex, and field: 2004 or most recent year**

Sex/location	All fields	All S&E fields	Physical/ biological sciences	Mathematics/ computer sciences	Agricultural sciences	Social/ behavioral sciences	Engineering	Non-S&E
Male .....	130,221	74,972	26,106	6,210	4,314	12,179	26,163	55,249
Asia .....	19,927	10,352	2,156	315	1,113	1,193	5,575	9,575
Japan <sup>a</sup> .....	11,384	6,051	1,311	NA	845	878	3,017	5,333
Kyrgyzstan .....	194	94	24	6	2	40	22	100
Philippines .....	677	57	3	11	31	12	0	620
South Korea .....	6,019	2,962	611	158	178	189	1,826	3,057
Taiwan (2005) .....	1,653	1,188	207	140	57	74	710	465
Middle East .....	10,108	3,344	1,059	257	325	496	1,207	6,764
Iran .....	1,744	428	97	26	72	83	150	1,316
Iraq .....	3,434	984	153	50	104	27	650	2,450
Israel .....	566	398	238	41	13	46	60	168
Morocco .....	1,440	553	338	54	0	132	29	887
Saudi Arabia .....	1,263	171	69	21	5	30	46	1,092
Turkey .....	1,661	810	164	65	131	178	272	851
Sub-Saharan Africa .....	2,160	792	214	99	154	183	142	1,368
Ghana (2001) .....	740	194	68	0	28	24	74	546
Kenya (2000) .....	747	341	127	3	88	71	52	406
Uganda .....	673	257	19	96	38	88	16	416
Europe .....	68,383	39,882	15,027	3,628	1,714	6,146	13,367	28,501
European Union .....	47,354	28,547	11,732	3,410	1,073	4,278	8,054	18,807
Austria .....	1,454	737	180	108	24	102	323	717
Belgium .....	978	629	376	92	31	59	71	349
Denmark .....	505	379	0	74	0	34	271	126
Finland .....	947	570	148	58	25	68	271	377
France .....	4,906	3,492	1,957	534	8	416	577	1,414
Germany .....	15,680	8,491	3,736	833	350	1,632	1,940	7,189
Greece .....	801	615	365	116	20	20	94	186
Ireland .....	371	240	120	25	7	11	77	131
Italy .....	3,120	2,038	715	173	132	208	810	1,082
Netherlands .....	1,623	997	311	0	135	181	370	626
Portugal .....	1,797	1,111	236	261	25	216	373	686
Spain .....	4,290	1,997	873	276	115	298	435	2,293
Sweden .....	2,202	1,591	395	180	31	173	812	611
United Kingdom <sup>b</sup> .....	8,680	5,660	2,320	680	170	860	1,630	3,020
European Free Trade Association .....	2,319	939	454	78	42	108	257	1,380
Norway .....	455	64	0	0	23	38	3	391
Switzerland .....	1,864	875	454	78	19	70	254	989
Central/Eastern Europe .....	18,710	10,396	2,841	140	599	1,760	5,056	8,314
Armenia .....	226	157	30	0	3	47	77	69
Bulgaria .....	193	89	28	6	4	6	45	104
Croatia (2003) .....	163	95	26	3	5	17	44	68
Czech Republic .....	1,116	740	181	86	60	44	369	376
Estonia .....	79	39	25	3	1	0	10	40
Georgia .....	225	138	26	0	12	43	57	87
Hungary .....	510	198	101	14	27	32	24	312
Latvia .....	35	21	2	5	0	6	8	14
Lithuania .....	128	81	21	6	3	10	41	47
Poland .....	2,897	689	0	0	0	0	689	2,208
Romania .....	1,359	733	82	0	1	158	492	626
Russia (1998) .....	11,309	7,156	2,241	NA	460	1,364	3,091	4,153
Slovak Republic .....	470	260	78	17	23	33	109	210
America .....	26,764	18,891	6,985	1,746	887	3,884	5,389	7,873
Canada .....	2,124	1,395	503	122	85	273	412	729
Chile .....	125	107	89	13	1	2	2	18
Cuba .....	97	60	35	0	6	2	17	37
Mexico .....	1,442	924	257	92	151	216	208	518
United States .....	22,976	16,405	6,101	1,519	644	3,391	4,750	6,571
Oceania .....	2,879	1,711	665	165	121	277	483	1,168

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**Earned S&E doctoral degrees, by selected region, country/economy, sex, and field: 2004 or most recent year**

Sex/location	All fields	All S&E fields	Physical/ biological sciences	Mathematics/ computer sciences	Agricultural sciences	Social/ behavioral sciences	Engineering	Non-S&E
Australia.....	2,561	1,530	570	137	121	256	446	1,031
New Zealand.....	318	181	95	28	0	21	37	137
Female.....	88,661	38,936	16,960	2,117	2,271	11,531	6,057	49,725
Asia.....	7,523	2,186	524	109	365	562	626	5,337
Japan <sup>a</sup> .....	3,776	1,245	247	NA	284	376	338	2,531
Kyrgyzstan.....	237	112	28	7	2	49	26	125
Philippines.....	1,071	63	9	2	28	24	0	1,008
South Korea.....	1,927	569	177	74	25	79	214	1,358
Taiwan (2005).....	512	197	63	26	26	34	48	315
Middle East.....	5,007	1,510	676	108	138	251	337	3,497
Iran.....	560	50	20	8	3	11	8	510
Iraq.....	1,622	351	132	36	28	11	144	1,271
Israel.....	569	316	188	16	17	68	27	253
Morocco.....	715	276	204	16	0	51	5	439
Saudi Arabia.....	522	50	19	6	0	18	7	472
Turkey.....	1,019	467	113	26	90	92	146	552
Sub-Saharan Africa.....	1,432	516	51	121	81	229	34	916
Ghana (2001).....	64	17	3	0	1	5	8	47
Kenya (2000).....	354	128	26	0	23	71	8	226
Uganda.....	1,014	371	22	121	57	153	18	643
Europe.....	50,498	22,369	10,800	1,170	1,123	5,516	3,760	28,129
European Union.....	35,814	16,846	8,697	1,104	791	3,887	2,367	18,968
Austria.....	989	370	146	10	18	122	74	619
Belgium.....	501	277	170	20	16	53	18	224
Denmark.....	283	152	0	26	0	21	105	131
Finland.....	916	386	156	17	11	109	93	530
France.....	3,514	2,093	1,409	142	10	330	202	1,421
Germany.....	10,272	3,703	2,089	190	225	928	271	6,569
Greece.....	494	290	208	22	16	19	25	204
Ireland.....	312	171	114	6	7	13	31	141
Italy.....	3,231	1,796	935	108	144	242	367	1,435
Netherlands.....	1,056	501	188	0	70	130	113	555
Portugal.....	2,166	1,148	365	171	35	371	206	1,018
Spain.....	3,878	1,675	983	117	71	336	168	2,203
Sweden.....	1,632	794	294	75	18	123	284	838
United Kingdom <sup>b</sup> .....	6,570	3,490	1,640	200	150	1,090	410	3,080
European Free Trade Association.....	1,389	467	243	16	31	109	68	922
Norway.....	301	60	0	0	18	39	3	241
Switzerland.....	1,088	407	243	16	13	70	65	681
Central/Eastern Europe.....	13,295	5,056	1,860	50	301	1,520	1,325	8,239
Armenia.....	105	59	26	0	6	20	7	46
Bulgaria.....	199	83	36	7	5	6	29	116
Croatia (2003).....	151	82	39	7	5	19	12	69
Czech Republic.....	616	319	126	17	26	51	99	297
Estonia.....	130	32	17	5	0	4	6	98
Georgia.....	256	108	46	0	8	43	11	148
Hungary.....	383	125	51	5	13	44	12	258
Latvia.....	49	26	7	1	5	8	5	23
Lithuania.....	173	92	39	4	4	24	21	81
Poland.....	2,563	219	0	0	0	0	219	2,344
Romania.....	1,321	488	69	0	0	221	198	833
Russia (1998).....	6,965	3,253	1,326	NA	216	1,051	660	3,712
Slovak Republic.....	384	170	78	4	13	29	46	214
America.....	21,694	11,159	4,345	551	494	4,615	1,154	10,535
Canada.....	1,585	780	252	27	42	384	75	805
Chile.....	63	51	46	1	2	1	1	12
Cuba.....	65	40	23	0	4	2	11	25
Mexico.....	883	469	179	23	48	166	53	414

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**Earned S&E doctoral degrees, by selected region, country/economy, sex, and field: 2004 or most recent year**

Sex/location	All fields	All S&E fields	Physical/ biological sciences	Mathematics/ computer sciences	Agricultural sciences	Social/ behavioral sciences	Engineering	Non-S&E
United States.....	19,098	9,819	3,845	500	398	4,062	1,014	9,279
Oceania.....	2,507	1,196	564	58	70	358	146	1,311
Australia.....	2,202	1,040	476	42	69	313	140	1,162
New Zealand.....	305	156	88	16	1	45	6	149

NA = not available

<sup>a</sup>Male/female breakouts for number completing doctoral degree coursework in S&E field; number very close to conferred degrees.<sup>b</sup>Data rounded to nearest 10.

NOTES: Physical/biological sciences include physical; biological; and earth, atmospheric, and ocean sciences. Data for doctoral degrees use International Standard Classification of Education (ISCED 97), level 6. S&amp;E data do not include health fields.

SOURCES: Organisation for Economic Co-operation and Development, Education Online Database, <http://www.oecd.org/education/database/>; United Nations Educational, Scientific, and Cultural Organization (UNESCO), Institute for Statistics, special tabulations (2006); Japan—Government of Japan, Ministry of Education, Culture, Sports, Science and Technology, Monbusho Survey of Education (2006); Taiwan—Ministry of Education, Educational Statistics of the Republic of China: 2005 (2005); Germany—Federal Statistical Office, Prüfungen an Hochschulen 2004 (2005); United Kingdom—Higher Education Statistics Agency, special tabulations (2007); Canada—Statistics Canada, special tabulations (2007); and United States—National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, Integrated Science and Engineering Resources Data System (WebCASPAR), <http://webcaspar.nsf.gov>.*Science and Engineering Indicators 2008*