

Appendix table 2-42

**S&E doctoral degrees, by selected Asian country/economy and field: 1996–2010**

Country/economy and field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
China	4,950	6,793	8,518	10,160	11,383	12,465	14,638	18,806	23,446	27,677	36,247	41,464	43,759	48,658	48,987
All S&E	4,428	5,308	6,358	6,778	7,766	8,153	9,523	12,238	14,858	17,595	22,953	26,582	28,439	31,423	31,410
Physical/biological sciences	1,479	1,678	2,246	2,135	2,306	2,655	2,808	3,705	4,518	5,458	7,241	8,051	8,953	9,570	9,638
Mathematics/computer sciences	264	334	350	417	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Agricultural sciences	256	328	416	444	462	536	626	756	977	1,093	1,544	1,903	1,936	2,006	1,973
Social/behavioral sciences	234	325	446	513	514	621	837	1,204	1,309	1,617	2,038	2,149	2,274	2,461	2,371
Engineering	2,195	2,643	2,900	3,269	4,484	4,341	5,252	6,573	8,054	9,427	12,130	14,479	15,276	17,386	17,428
India	10,397	10,408	11,066	10,951	11,296	11,544	11,974	13,733	17,853	17,898	18,730	NA	NA	NA	NA
All S&E	5,153	4,916	5,609	5,418	5,541	5,504	5,637	6,471	7,636	7,537	7,982	NA	NA	NA	NA
Physical/biological sciences	3,861	3,498	3,894	3,836	3,885	3,727	3,955	4,497	5,612	5,549	5,625	NA	NA	NA	NA
Mathematics/computer sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Agricultural sciences	918	1,120	971	886	933	999	948	1,195	1,142	1,020	1,299	NA	NA	NA	NA
Social/behavioral sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Engineering	374	298	744	696	723	778	734	779	882	968	1,058	NA	NA	NA	NA
Japan <sup>a</sup>	13,820	13,921	14,800	15,470	15,357	16,078	16,183	16,314	16,909	16,851	17,396	17,291	16,735	15,872	NA
All S&E	6,006	6,157	6,575	7,082	7,089	7,401	7,461	7,581	7,912	7,658	8,122	8,017	7,761	7,396	NA
Physical/biological sciences	1,243	1,315	1,481	1,542	1,579	1,586	1,602	1,651	1,679	1,543	1,633	1,686	1,525	1,480	NA
Mathematics/computer sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Agricultural sciences	1,108	1,043	1,094	1,100	1,147	1,241	1,248	1,258	1,348	1,257	1,321	1,233	1,222	1,170	NA
Social/behavioral sciences	358	388	420	506	563	610	656	751	808	943	973	1,025	1,060	988	NA
Engineering	3,297	3,411	3,580	3,934	3,800	3,964	3,955	3,921	4,077	3,915	4,195	4,073	3,954	3,758	NA
South Korea	4,723	4,999	4,999	5,586	6,143	6,208	6,690	7,172	7,946	8,449	8,657	9,082	9,369	9,912	10,542
All S&E	2,046	2,189	2,316	2,607	2,865	2,956	3,225	3,192	3,531	3,653	3,779	3,649	3,716	3,833	4,165
Physical/biological sciences	391	427	421	438	614	581	590	711	788	737	817	744	798	906	910
Mathematics/computer sciences	178	187	187	188	247	282	258	222	232	148	173	128	156	135	185
Agricultural sciences	199	178	190	230	242	260	288	169	203	228	214	212	209	200	206
Social/behavioral sciences	236	240	160	168	108	195	190	222	268	267	308	316	311	290	358
Engineering	1,042	1,157	1,358	1,583	1,654	1,638	1,899	1,868	2,040	2,273	2,267	2,249	2,242	2,302	2,506
Taiwan	1,053	1,187	1,282	1,307	1,455	1,463	1,501	1,759	1,964	2,165	2,614	2,850	3,140	3,589	3,705
All S&E	783	839	907	901	970	970	966	1,167	1,291	1,385	1,643	1,905	2,005	2,295	2,509
Physical/biological sciences	154	163	172	159	143	144	166	202	206	270	319	371	413	469	507
Mathematics/computer sciences	63	88	93	119	106	107	107	127	136	166	182	87	108	115	134

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Country/economy and field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Agricultural sciences	65	79	78	76	87	90	93	93	116	83	92	72	77	104	95
Social/behavioral sciences	66	76	87	65	108	108	72	89	111	108	111	157	165	172	165
Engineering	435	433	477	482	526	521	528	656	722	758	939	1,219	1,242	1,435	1,608

NA = not available.

<sup>a</sup> Japan data include thesis doctorates, called *ronbun hakase*, earned by employees in industry. In higher education data for Japan, mathematics are included in natural sciences and computer sciences are included in engineering.

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&E data do not include health fields.

SOURCES: China—National Research Center for Science and Technology for Development and *Education Statistics Yearbook of China* (various years); India—Department of Science and Technology (various years); Japan—Government of Japan, Ministry of Education, Culture, Sports, Science and Technology, Higher Education Bureau (various years); South Korea—Organisation for Economic Co-operation and Development (OECD) (various years), OECD.Stat Extracts, <http://stats.oecd.org> (various years); and Taiwan—Ministry of Education, Educational Statistics of the Republic of China (annual series).

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