

APPENDIX TABLE 2-35

S&E first university degrees, by selected Western or Asian country or economy and field: 2000–14

(Number)

Country or economy and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Australia															
All fields	129,499	137,877	152,287	130,298	NA	172,818	176,136	177,155	181,457	191,080	196,662	210,638	NA	236,792	239,223
S&E fields	37,064	42,598	47,337	44,521	NA	53,129	51,826	50,029	48,736	48,947	15,564	53,903	NA	63,884	65,744
Physical and biological sciences and mathematics and statistics	9,502	9,173	9,040	10,059	NA	11,355	12,284	12,236	12,257	12,070	NA	12,953	NA	13,766	14,855
Computer sciences	6,896	11,075	14,953	11,904	NA	13,691	10,737	9,210	7,808	7,211	NA	7,308	NA	9,270	9,515
Agricultural sciences	1,666	1,432	1,534	1,503	NA	1,501	1,523	1,448	1,480	1,513	1,522	1,519	NA	1,415	1,403
Social/ behavioral sciences	8,562	9,251	9,673	11,012	NA	14,248	14,619	14,646	14,301	14,907	NA	17,156	NA	18,627	18,909
Engineering	10,438	11,667	12,137	10,043	NA	12,334	12,663	12,489	12,890	13,246	14,042	14,967	NA	20,805	21,062
Canada															
All fields	127,131	NA	NA	NA	137,296	149,910	176,910	160,428	181,580	178,673	178,827	173,021	168,183	193,455	NA
S&E fields	54,029	NA	NA	NA	53,818	60,600	59,937	63,735	72,796	70,474	69,112	67,218	67,338	76,938	NA
Physical and biological sciences and mathematics and statistics	12,120	NA	NA	NA	11,699	11,967	12,138	16,626	19,669	19,176	18,708	18,333	18,429	21,025	NA
Computer sciences	3,657	NA	NA	NA	5,462	6,678	5,565	4,932	3,908	3,512	3,592	3,136	3,221	3,740	NA
Agricultural sciences	1,529	NA	NA	NA	1,609	1,152	1,332	1,206	1,264	1,197	1,194	1,020	930	1,092	NA
Social/ behavioral sciences	27,046	NA	NA	NA	24,390	28,491	28,533	28,662	34,352	33,051	32,337	32,096	31,481	35,611	NA



Country or economy and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
All fields	169,642	164,862	166,627	172,624	183,384	197,770	212,008	233,317	253,541	281,136	293,984	365,729	365,192	NA	374,904
S&E fields	NA	NA	NA	NA	NA	78,470	NA	NA	124,465	134,781	144,724	152,872	155,223	NA	156,600
Physical and biological sciences and mathematics and statistics	NA	NA	NA	NA	NA	16,358	NA	NA	34,751	39,573	41,441	43,267	41,630	NA	29,659
Computer sciences	NA	NA	NA	NA	NA	12,199	NA	NA	16,186	16,932	16,560	16,276	16,312	NA	15,695
Agricultural sciences	NA	NA	NA	NA	NA	3,192	NA	NA	3,694	3,888	3,836	4,396	4,266	NA	7,440
Social/ behavioral sciences	NA	NA	NA	NA	NA	13,356	NA	NA	29,705	30,224	33,876	34,671	34,368	NA	22,756
Engineering	NA	NA	NA	NA	NA	33,365	NA	NA	40,129	44,164	49,011	54,262	58,647	NA	81,051
Italy															
All fields	159,276	171,806	201,019	231,968	264,574	291,304	273,451	251,155	231,084	222,631	211,770	216,509	213,013	221,907	225,599
S&E fields	62,075	65,964	76,848	91,899	108,879	122,124	115,346	102,942	91,827	89,220	85,224	84,737	NA	82,834	85,799
Physical and biological sciences and mathematics and statistics	11,865	12,622	13,603	14,951	16,750	16,957	15,569	13,455	12,991	13,095	13,094	13,237	NA	13,061	13,234
Computer sciences	1,626	1,519	2,423	2,843	3,211	3,459	3,541	3,385	2,933	2,870	2,778	2,420	NA	2,247	2,240
Agricultural sciences	2,729	3,117	4,083	4,682	4,760	4,968	4,804	4,744	4,286	4,332	3,989	4,133	NA	4,365	4,843
Social/ behavioral sciences	17,082	18,541	21,377	27,434	38,259	47,616	47,003	42,230	36,664	34,654	32,644	32,118	NA	29,354	30,631
Engineering	28,773	30,165	35,362	41,989	45,899	49,124	44,429	39,128	34,953	34,269	32,719	32,829	NA	33,807	34,851
Japan ^b															
All fields	538,683	545,512	547,711	544,894	548,897	551,016	558,184	559,090	555,690	559,539	541,428	541,428	558,692	558,853	565,573
S&E fields	353,465	359,019	357,282	352,088	351,299	349,015	350,137	344,990	336,815	333,553	321,168	325,365	319,783	316,730	315,812



Country or economy and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Physical and biological sciences and mathematics and statistics	13,300	14,192	19,369	19,549	19,727	19,260	19,805	19,536	19,094	18,790	18,413	18,297	18,116	18,063	17,828
Computer sciences	4,941	4,965	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Agricultural sciences	15,562	14,084	16,393	15,933	15,865	16,015	16,019	16,122	16,113	16,797	17,071	17,235	17,388	17,330	17,326
Social/ behavioral sciences	216,506	221,300	217,838	215,205	217,276	215,809	217,638	213,179	206,392	204,282	196,061	199,784	196,735	195,024	193,974
Engineering	103,156	104,478	103,682	101,401	98,431	97,931	96,675	96,153	95,216	93,684	89,623	90,049	87,544	86,313	86,684
Mexico															
All fields	NA	296,485	NA	280,589	276,690	309,266	339,340	343,328	336,810	362,241	372,997	402,476	425,754	450,922	NA
S&E fields	NA	101,635	NA	99,134	NA	121,523	131,743	136,777	130,418	143,152	145,876	159,873	170,472	180,755	NA
Physical and biological sciences and mathematics and statistics	NA	7,252	NA	7,610	NA	9,308	10,261	10,684	11,033	11,682	11,668	11,601	12,745	12,768	NA
Computer sciences	NA	21,305	NA	24,221	NA	27,702	28,844	27,612	26,354	25,604	12,392	12,621	12,676	12,557	NA
Agricultural sciences	NA	5,873	NA	5,978	NA	6,169	6,806	6,764	6,454	7,645	6,656	6,794	8,008	8,895	NA
Social/ behavioral sciences	NA	26,203	NA	14,211	NA	31,016	33,577	38,935	33,751	41,688	43,712	44,621	46,651	46,204	NA
Engineering	NA	41,002	NA	47,114	NA	47,328	52,255	52,782	52,826	56,533	71,448	84,236	90,392	100,331	NA
Netherlands															
All fields	69,809	71,237	75,145	82,425	84,194	90,033	94,600	92,844	89,331	90,445	91,389	93,582	102,042	92,323	93,306
S&E fields	19,219	19,393	20,391	21,027	22,643	25,416	28,541	25,829	23,192	22,502	22,642	23,444	26,414	24,570	25,531
Physical and biological sciences and mathematics and statistics	2,464	2,295	2,467	2,523	2,376	2,517	1,539	1,416	1,318	1,312	1,344	1,566	1,731	1,762	1,887



Country or economy and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Computer sciences	1,108	1,303	1,478	1,620	3,511	3,902	4,617	4,385	4,078	3,918	3,843	3,626	3,994	3,520	3,802
Agricultural sciences	1,561	1,636	1,535	1,640	1,865	1,864	1,234	1,239	1,080	1,058	1,275	1,086	1,026	979	1,062
Social/ behavioral sciences	6,337	6,278	6,544	7,014	8,028	10,172	13,497	11,598	9,849	9,207	9,116	9,777	11,322	10,554	10,978
Engineering	7,749	7,881	8,367	8,230	6,863	6,961	7,654	7,191	6,867	7,007	7,064	7,389	8,341	7,755	7,802
Poland															
All fields	207,791	240,976	260,953	269,861	278,509	287,607	293,045	309,526	321,762	327,241	355,220	359,564	318,912	282,071	256,910
S&E fields	67,689	78,951	85,486	90,170	93,268	96,922	110,568	119,826	120,927	119,857	128,991	131,298	112,374	99,525	92,899
Physical and biological sciences and mathematics and statistics	7,783	8,905	9,801	9,363	8,483	8,720	14,394	15,054	15,382	14,800	17,344	15,544	13,016	11,772	10,534
Computer sciences	1,912	3,542	4,112	5,879	10,681	13,116	14,788	14,209	13,023	12,406	12,535	12,315	10,873	9,534	8,636
Agricultural sciences	4,928	5,359	5,740	5,354	5,323	5,668	5,821	6,934	6,994	6,695	7,524	6,437	4,977	4,562	4,037
Social/ behavioral sciences	28,068	34,602	37,212	38,873	39,506	40,298	41,489	46,535	49,849	50,857	53,216	49,852	40,574	34,509	29,672
Engineering	24,998	26,543	28,621	30,701	29,275	29,120	34,076	37,094	35,679	35,099	38,372	47,150	42,934	39,148	40,020
Romania															
All fields	61,329	66,644	79,497	88,005	97,629	97,649	101,143	115,327	232,310	214,617	191,151	171,175	NA	105,068	90,406
S&E fields	20,038	21,472	26,068	29,020	31,070	33,513	34,013	35,910	81,278	90,828	69,751	59,516	NA	46,475	40,877
Physical and biological sciences and mathematics and statistics	3,895	3,883	4,518	4,763	4,679	4,682	4,642	6,948	10,947	6,513	5,909	5,289	NA	3,923	3,772
Computer sciences	NA	NA	NA	NA	NA	NA	NA	NA	4,553	2,845	2,097	2,001	NA	1,543	1,455
Agricultural sciences	1,588	2,112	2,356	2,106	2,195	2,273	2,495	2,927	2,499	4,461	2,894	2,204	NA	2,173	1,907



Country or economy and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Social/ behavioral sciences	3,836	4,136	6,523	6,875	8,493	9,643	9,902	9,562	43,134	35,326	33,607	28,014	NA	15,003	13,046
Engineering	10,719	11,341	12,671	15,276	15,703	16,915	16,974	16,473	20,145	41,683	25,244	22,008	NA	23,833	20,697
South Korea															
All fields	214,498	239,702	244,852	258,126	267,058	268,833	270,546	277,858	315,204	308,162	NA	321,798	325,665	325,113	329,444
S&E fields	99,352	113,988	116,324	119,104	124,479	123,440	120,612	121,293	134,850	128,788	NA	135,113	133,996	134,627	134,761
Physical and biological sciences and mathematics and statistics	18,096	19,537	17,760	22,232	20,646	19,209	19,039	19,255	19,726	19,902	NA	20,566	20,037	19,703	20,224
Computer sciences	4,630	8,888	8,695	4,934	9,452	9,378	10,519	11,593	13,700	12,306	NA	11,990	12,405	12,436	11,584
Agricultural sciences	6,479	6,210	6,160	2,530	3,520	4,753	4,437	4,215	4,854	4,354	NA	4,419	4,405	4,475	4,473
Social/ behavioral sciences	13,639	17,037	18,767	18,908	20,487	19,298	18,016	18,247	19,332	18,456	NA	20,139	20,641	20,583	20,596
Engineering	56,508	62,316	64,942	70,500	70,374	70,802	68,601	67,983	77,238	73,770	NA	77,999	76,508	77,430	77,884
Spain															
All fields	207,578	211,349	211,979	209,373	202,435	195,946	192,178	185,151	187,420	193,523	197,890	220,221	208,961	NA	235,672
S&E fields	71,842	76,628	76,744	76,313	72,985	70,684	68,432	66,297	64,815	67,114	68,021	77,137	75,110	NA	82,719
Physical and biological sciences and mathematics and statistics	13,772	13,631	12,850	11,957	10,849	9,950	9,206	8,289	8,186	7,612	7,575	8,988	9,545	NA	11,366
Computer sciences	6,146	7,280	6,909	7,519	7,952	8,488	9,205	9,178	8,775	9,031	8,831	7,407	7,768	NA	6,957
Agricultural sciences	6,073	5,746	6,098	6,193	5,592	5,459	4,544	4,330	4,006	4,170	4,122	3,587	3,741	NA	3,824
Social/ behavioral sciences	18,670	19,677	20,093	18,500	17,804	17,925	16,948	16,117	15,668	15,953	16,358	16,303	18,195	NA	21,588
Engineering	27,181	30,294	30,794	32,144	30,788	28,862	28,529	28,383	28,180	30,348	31,135	40,852	35,861	NA	38,984



Country or economy and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Taiwan															
All fields	100,171	117,430	146,166	176,044	192,854	210,763	219,919	228,645	230,198	227,885	227,174	228,878	232,448	226,799	228,762
S&E fields	39,804	48,624	61,540	72,540	79,283	85,891	89,741	92,167	92,636	88,859	88,294	88,102	88,578	84,597	83,394
Physical and biological sciences and mathematics and statistics	6,100	6,211	6,718	7,106	7,283	7,917	8,357	8,986	9,592	9,830	9,864	9,852	10,106	9,882	9,408
Computer sciences	5,391	6,864	9,516	12,979	15,813	18,320	20,292	15,848	15,861	14,680	14,489	14,012	14,447	13,884	13,694
Agricultural sciences	3,259	3,200	3,583	4,016	5,074	5,024	4,988	4,253	4,455	4,349	4,154	4,437	4,529	4,759	4,756
Social/ behavioral sciences	5,489	5,762	6,277	6,492	7,002	7,760	7,971	7,005	6,938	7,320	7,322	7,722	7,607	7,557	7,538
Engineering	19,565	26,587	35,446	41,947	44,111	46,870	48,133	56,075	55,790	52,680	52,465	52,079	51,889	48,515	47,998
Turkey															
All fields	118,882	142,275	168,923	180,513	145,884	150,421	203,108	223,559	245,140	261,582	289,013	284,459	340,396	NA	399,049
S&E fields	51,875	36,517	37,290	36,677	57,428	59,206	75,109	82,341	95,449	103,285	108,861	84,061	99,415	NA	128,672
Physical and biological sciences and mathematics and statistics	12,247	13,797	13,683	13,298	13,152	13,411	14,492	16,877	19,094	20,138	18,035	22,568	26,876	NA	28,154
Computer sciences	773	987	1,281	1,402	1,727	1,970	1,958	2,201	2,468	2,972	3,057	3,037	3,379	NA	917
Agricultural sciences	5,759	5,764	6,159	5,496	5,118	5,209	5,472	5,699	6,197	7,199	6,016	5,772	7,014	NA	8,050
Social/ behavioral sciences	17,503	NA	NA	NA	20,430	20,509	34,863	37,680	45,071	48,860	57,485	28,423	34,618	NA	47,834
Engineering	15,593	15,969	16,167	16,481	17,001	18,107	18,324	19,884	22,619	24,116	24,268	24,261	27,528	NA	43,717
United Kingdom															
All fields	269,841	277,678	279,788	287,506	292,092	306,363	315,934	319,260	334,785	333,721	350,179	367,875	389,296	402,682	444,152



Country or economy and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
S&E fields	108,406	119,491	119,843	122,518	122,791	126,100	128,299	126,934	130,922	129,813	135,845	143,176	150,556	160,363	180,340
Physical and biological sciences and mathematics and statistics	37,966	42,743	41,143	42,621	32,966	33,564	34,039	34,764	36,582	37,574	39,140	41,731	44,119	63,771	72,818
Computer sciences	11,390	14,635	16,310	19,250	20,177	20,096	18,839	16,446	14,909	14,033	14,202	14,335	15,089	15,497	17,843
Agricultural sciences	2,942	3,266	3,319	2,804	3,073	2,915	2,821	2,826	3,034	2,994	3,039	3,375	3,474	3,621	4,011
Social/ behavioral sciences	28,500	27,944	28,639	30,112	40,303	43,638	45,743	45,656	47,657	45,788	47,551	50,648	54,343	43,021	48,579
Engineering	27,608	30,902	30,432	27,730	26,271	25,886	26,856	27,242	28,739	29,424	31,914	33,087	33,531	34,453	37,089
United States															
All fields	1,254,618	1,260,308	1,308,970	1,365,694	1,417,421	1,456,401	1,502,922	1,541,704	1,580,413	1,619,028	1,668,227	1,734,229	1,810,647	1,861,034	1,890,941
S&E fields	483,764	487,352	508,262	538,335	555,607	568,431	578,118	586,149	598,470	608,959	630,254	659,840	693,961	719,695	741,763
Physical and biological sciences and mathematics and statistics	105,332	101,055	101,573	103,569	105,431	110,340	117,404	124,561	129,461	133,574	140,275	148,329	160,278	169,810	177,001
Computer sciences	38,874	44,870	51,040	59,978	62,072	57,217	51,085	46,333	43,749	43,732	45,021	48,599	53,081	56,726	61,285
Agricultural sciences	16,534	16,146	16,095	15,902	15,569	15,915	15,682	15,755	16,119	16,615	16,618	17,143	17,701	18,512	19,621
Social/ behavioral sciences	239,964	242,605	254,769	271,181	284,130	294,648	301,572	306,462	314,290	318,988	328,064	341,473	353,099	360,441	364,358
Engineering	83,060	82,676	84,785	87,705	88,405	90,311	92,375	93,038	94,851	96,050	100,276	104,296	109,802	114,206	119,498

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. In higher education data for Japan, mathematics are included in natural sciences, and computer sciences are included in 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 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 varies slightly from the National Science Foundation classification of fields presented in other sections of the chapter. Data for first university degrees use ISCED 2011 level 6 (bachelor's or equivalent first degrees) and level 7 (master's or equivalent long first degrees). S&E data do not include health fields.

Source(s)

United Nations Educational, Scientific and Cultural Organization (UNESCO) Institute for Statistics database, special tabulations (2016); Organisation for Economic Co-operation and Development (OECD), OECD.Stat, <https://stats.oecd.org/>; National Bureau of Statistics of China, *China Statistical Yearbook*, annual series (Beijing) (various years); Government of Japan, Ministry of Education, Culture, Sports, Science and Technology, Survey of Education, annual series (various years); Ministry of Education, *Educational Statistics of the Republic of China (Taiwan)*, annual series (various years); National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), Completions Survey; National Science Foundation, National Center for Science and Engineering Statistics, Integrated Science and Engineering Resources Data System (WebCASPAR), <https://ncesdata.nsf.gov/webcaspar/>.

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