

Table SHED-11

**S&E first university 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
<b>Argentina</b>									
All fields	79,533	80,296	82,919	76,413	76,413	88,639	NA	NA	NA
S&E fields	24,940	25,868	27,543	16,192	16,192	30,072	NA	NA	NA
Physical and biological sciences and mathematics and statistics	2,713	2,830	2,832	4,686	4,686	3,448	NA	NA	NA
Computer sciences	2,385	2,367	2,482	NA	NA	2,120	NA	NA	NA
Agricultural sciences	2,586	3,023	2,968	3,273	3,273	2,893	NA	NA	NA
Social and behavioral sciences	10,312	10,400	11,004	NA	NA	11,643	NA	NA	NA
Engineering	6,944	7,248	8,257	8,233	8,233	9,968	NA	NA	NA
<b>Australia</b>									
All fields	203,906	217,961	220,797	194,610	194,308	192,490	198,097	199,694	206,726
S&E fields	49,494	52,492	53,831	53,249	53,884	55,182	55,093	55,196	59,137
Physical and biological sciences and mathematics and statistics	11,094	11,664	11,893	12,838	13,801	16,008	16,020	15,808	16,292
Computer sciences	7,055	6,994	6,943	6,395	6,141	6,279	6,442	6,754	7,927
Agricultural sciences	1,522	1,519	1,479	1,222	1,133	1,071	1,159	1,321	1,471
Social and behavioral sciences	14,121	15,428	16,155	16,649	16,749	17,859	17,418	17,156	17,924
Engineering	15,702	16,887	17,361	16,145	16,060	13,966	14,054	14,158	15,522
<b>Austria</b>									
All fields	32,143	35,633	38,735	40,811	37,254	37,264	37,358	36,242	35,028
S&E fields	12,738	14,164	15,183	15,962	15,503	14,900	15,809	13,911	12,151
Physical and biological sciences and mathematics and statistics	2,114	2,423	2,399	3,030	2,660	2,556	2,576	2,646	2,651
Computer sciences	1,454	1,444	1,392	1,354	1,410	1,322	1,342	1,300	1,433
Agricultural sciences	313	409	451	392	376	327	390	401	388
Social and behavioral sciences	4,344	5,119	6,221	6,964	6,478	6,419	6,965	5,290	3,453
Engineering	4,513	4,769	4,720	4,222	4,580	4,276	4,537	4,275	4,225
<b>Belgium</b>									
All fields	67,683	62,323	64,725	65,947	67,114	70,513	70,060	69,357	69,797
S&E fields	16,187	16,901	17,365	17,435	18,207	16,482	17,446	16,934	17,117
Physical and biological sciences and mathematics and statistics	1,410	1,491	1,517	1,459	1,575	1,954	1,829	1,590	1,656
Computer sciences	1,339	1,395	1,389	1,266	1,290	990	1,479	1,822	2,130
Agricultural sciences	1,463	1,462	1,487	1,451	1,536	1,270	1,406	1,500	1,314
Social and behavioral sciences	5,687	6,086	6,107	6,261	6,427	5,702	5,334	5,123	5,194
Engineering	6,288	6,467	6,865	6,998	7,379	6,566	7,398	6,899	6,823
<b>Brazil</b>									
All fields	973,839	1,016,713	1,050,413	991,010	1,027,092	1,150,067	1,169,449	1,199,769	1,264,288
S&E fields	192,616	201,636	209,920	208,304	219,525	235,267	262,301	282,278	314,863
Physical and biological sciences and mathematics and statistics	16,500	19,204	21,137	19,927	20,806	23,066	23,717	25,882	15,901
Computer sciences	39,360	36,767	37,266	35,249	35,560	37,464	37,943	35,841	43,562
Agricultural sciences	18,271	19,985	18,839	19,111	20,120	22,641	24,920	25,935	30,468
Social and behavioral sciences	48,441	50,788	47,029	43,198	43,734	46,165	50,163	53,628	61,622
Engineering	70,044	74,892	85,649	90,819	99,305	105,931	125,558	140,992	163,310
<b>Bulgaria</b>									
All fields	36,477	NA	NA	38,303	35,556	34,158	33,313	31,101	29,700
S&E fields	15,547	NA	NA	16,648	14,786	14,118	13,224	12,139	11,302
Physical and biological sciences and mathematics and statistics	1,438	NA	NA	1,412	1,243	1,224	1,110	1,059	953
Computer sciences	949	NA	NA	1,247	1,100	1,222	1,123	1,301	1,303

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Region, country, or economy and field	2010	2011	2012	2013	2014	2015	2016	2017	2018
Agricultural sciences	758	NA	NA	537	523	547	610	547	536
Social and behavioral sciences	6,757	NA	NA	7,577	6,734	6,266	5,706	4,884	4,702
Engineering	5,645	NA	NA	5,875	5,186	4,859	4,675	4,348	3,808
Canada									
All fields	179,337	184,138	189,942	193,455	197,776	203,561	194,598	196,669	198,564
S&E fields	68,170	69,333	76,876	77,886	77,149	81,880	77,834	85,578	86,461
Physical and biological sciences and mathematics and statistics	18,047	18,566	20,800	21,024	17,959	19,090	17,362	19,264	19,457
Computer sciences	3,332	3,448	3,618	3,740	3,525	3,773	3,732	4,273	4,333
Agricultural sciences	1,287	1,195	1,050	1,092	2,979	3,077	2,943	3,120	3,151
Social and behavioral sciences	30,252	30,238	35,584	35,610	37,337	39,256	37,509	41,460	41,834
Engineering	15,252	15,887	15,824	16,418	15,349	16,685	16,288	17,461	17,686
Chile									
All fields	53,286	54,901	56,659	32,093	37,286	43,815	43,710	49,105	47,035
S&E fields	16,358	16,767	18,232	10,454	10,275	11,383	11,158	12,564	12,925
Physical and biological sciences and mathematics and statistics	906	966	1,116	2,525	207	185	193	215	166
Computer sciences	1,056	1,077	1,273	20	2,860	2,904	2,866	2,636	2,379
Agricultural sciences	1,977	2,023	2,091	364	438	440	477	477	526
Social and behavioral sciences	4,666	4,961	5,209	1,626	175	210	103	112	36
Engineering	7,753	7,740	8,543	5,920	6,596	7,645	7,520	9,125	9,820
China <sup>a</sup>									
All fields	2,590,535	2,796,229	3,038,473	3,199,716	3,413,787	3,585,940	3,743,680	3,841,839	3,868,358
S&E fields	1,288,999	1,387,374	1,500,689	1,559,840	1,653,565	1,716,413	1,772,830	1,802,760	1,821,950
Physical and biological sciences and mathematics and statistics	269,053	279,101	294,060	248,790	255,304	255,632	257,436	257,768	255,595
Computer sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA
Agricultural sciences	48,442	51,148	53,789	58,752	59,796	60,908	64,499	66,641	67,537
Social and behavioral sciences	158,286	172,583	188,257	193,530	206,239	219,365	224,165	230,543	229,645
Engineering	813,218	884,542	964,583	1,058,768	1,132,226	1,180,508	1,226,730	1,247,808	1,269,173
Colombia									
All fields	120,737	132,839	153,573	161,732	167,897	178,379	192,631	208,914	226,506
S&E fields	45,132	47,036	53,355	56,577	59,894	62,529	68,613	75,783	82,551
Physical and biological sciences and mathematics and statistics	2,818	2,947	2,991	3,108	3,054	2,949	2,895	3,274	3,431
Computer sciences	6,140	6,145	7,156	7,430	7,526	7,407	7,845	7,568	7,955
Agricultural sciences	3,185	3,294	3,511	3,299	3,533	3,105	3,452	3,816	3,891
Social and behavioral sciences	12,772	13,374	15,141	15,947	16,608	18,180	19,674	22,524	25,904
Engineering	20,217	21,276	24,556	26,793	29,173	30,888	34,747	38,601	41,370
Costa Rica									
All fields	NA	NA	NA	38,487	41,546	39,937	38,324	38,096	36,049
S&E fields	NA	NA	NA	21,588	8,834	7,838	9,005	9,084	8,281
Physical and biological sciences and mathematics and statistics	NA	NA	NA	2,561	335	563	724	774	734
Computer sciences	NA	NA	NA	NA	2,020	1,766	1,903	1,981	1,869
Agricultural sciences	NA	NA	NA	476	427	274	421	539	437
Social and behavioral sciences	NA	NA	NA	15,791	2,848	2,068	2,988	2,614	2,186
Engineering	NA	NA	NA	2,760	3,204	3,167	2,969	3,176	3,055
Croatia									
All fields	NA	NA	NA	19,362	18,059	18,951	18,027	18,210	18,409
S&E fields	NA	NA	NA	6,615	6,387	6,694	6,756	7,375	7,152

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(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	598	730	772	734	891	892
Computer sciences	NA	NA	NA	1,041	698	871	884	1,158	779
Agricultural sciences	NA	NA	NA	721	707	761	738	740	635
Social and behavioral sciences	NA	NA	NA	1,409	1,373	1,395	1,273	1,299	1,349
Engineering	NA	NA	NA	2,846	2,879	2,895	3,127	3,287	3,497
Cyprus									
All fields	2,348	NA	NA	3,374	3,589	3,564	3,521	3,538	3,098
S&E fields	787	NA	NA	1,075	1,144	1,191	1,181	1,155	1,081
Physical and biological sciences and mathematics and statistics	95	NA	NA	125	146	153	190	168	143
Computer sciences	137	NA	NA	129	147	147	132	141	129
Agricultural sciences	*	NA	NA	22	29	34	32	48	27
Social and behavioral sciences	278	NA	NA	304	312	323	367	335	364
Engineering	277	NA	NA	495	510	534	460	463	418
Czechia									
All fields	60,525	60,617	60,195	62,521	59,735	48,479	45,636	46,785	44,426
S&E fields	20,521	19,711	19,790	20,497	19,955	18,035	17,261	15,926	15,372
Physical and biological sciences and mathematics and statistics	2,971	2,841	2,845	3,052	3,722	2,389	2,339	2,035	2,144
Computer sciences	2,647	2,613	2,629	2,856	2,716	2,087	1,871	2,252	2,156
Agricultural sciences	1,948	2,076	2,284	2,211	1,818	1,605	1,639	1,536	1,501
Social and behavioral sciences	5,437	5,638	5,512	5,291	4,730	5,305	4,869	4,046	3,951
Engineering	7,518	6,543	6,520	7,087	6,969	6,649	6,543	6,057	5,620
Denmark									
All fields	33,957	34,294	34,292	37,610	41,234	42,581	45,505	43,587	44,158
S&E fields	7,963	8,408	8,578	8,697	10,416	10,798	12,791	11,461	12,412
Physical and biological sciences and mathematics and statistics	1,101	1,106	1,128	1,179	1,356	1,338	2,251	1,928	1,967
Computer sciences	847	1,086	1,119	1,277	1,537	936	1,447	1,491	1,484
Agricultural sciences	184	232	157	232	409	615	522	361	354
Social and behavioral sciences	2,686	2,482	2,576	2,313	3,031	3,519	4,480	3,625	3,732
Engineering	3,145	3,502	3,598	3,696	4,083	4,390	4,091	4,056	4,875
Estonia									
All fields	4,837	5,172	4,747	8,007	7,398	7,346	7,139	6,543	5,941
S&E fields	1,722	1,916	1,848	2,687	2,450	2,497	2,504	2,278	2,035
Physical and biological sciences and mathematics and statistics	276	313	347	523	349	381	388	303	296
Computer sciences	214	226	233	342	371	359	441	471	335
Agricultural sciences	155	198	181	178	130	132	124	122	112
Social and behavioral sciences	545	602	519	511	536	569	628	427	430
Engineering	532	577	568	1,133	1,064	1,056	923	955	862
Finland									
All fields	30,518	32,755	33,470	34,362	35,061	37,761	36,915	37,198	38,362
S&E fields	10,783	11,154	11,200	11,656	11,821	12,946	12,918	11,934	12,851
Physical and biological sciences and mathematics and statistics	891	964	877	899	929	1,212	1,125	1,179	1,168
Computer sciences	2,382	2,267	2,217	2,307	2,274	2,415	2,518	2,237	2,617
Agricultural sciences	726	726	693	716	714	818	802	807	786
Social and behavioral sciences	1,527	1,610	1,623	1,596	1,671	1,878	1,799	1,888	1,827
Engineering	5,257	5,587	5,790	6,138	6,233	6,623	6,674	5,823	6,453

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(Number)

Region, country, or economy and field	2010	2011	2012	2013	2014	2015	2016	2017	2018
France									
All fields	197,082	203,211	236,120	239,564	240,836	340,449	356,330	260,621	354,407
S&E fields	77,374	78,294	81,209	80,800	80,885	127,138	129,028	81,736	128,197
Physical and biological sciences and mathematics and statistics	22,478	18,586	19,296	18,721	18,694	26,993	28,292	26,228	29,734
Computer sciences	8,202	8,814	8,054	8,091	8,602	12,465	12,852	7,867	13,457
Agricultural sciences	1,289	1,320	1,161	1,155	1,076	4,455	4,061	649	4,599
Social and behavioral sciences	27,588	30,737	33,507	33,290	32,969	32,145	31,449	25,346	30,396
Engineering	17,817	18,837	19,191	19,543	19,544	51,080	52,374	21,646	50,011
Germany									
All fields	369,059	383,166	386,090	369,046	374,904	380,059	380,089	378,647	368,985
S&E fields	144,724	152,872	155,223	157,719	158,833	161,118	155,533	151,585	146,831
Physical and biological sciences and mathematics and statistics	41,441	43,267	41,630	30,014	29,826	28,210	26,050	24,270	23,448
Computer sciences	16,560	16,276	16,312	15,105	15,474	16,392	16,127	16,455	16,596
Agricultural sciences	3,836	4,396	4,266	7,165	7,195	7,261	7,067	6,985	7,033
Social and behavioral sciences	33,876	34,671	34,368	23,691	24,009	23,138	22,974	24,217	23,543
Engineering	49,011	54,262	58,647	81,744	82,330	86,117	83,316	79,658	76,211
Greece									
All fields	32,723	32,988	32,809	53,394	51,044	51,044	51,935	49,043	48,004
S&E fields	15,040	15,222	14,687	26,199	22,381	22,381	21,905	22,014	21,657
Physical and biological sciences and mathematics and statistics	3,320	3,353	3,275	3,375	3,930	3,930	3,572	3,860	3,590
Computer sciences	1,017	1,016	1,074	2,440	1,370	1,370	1,419	1,292	1,375
Agricultural sciences	986	1,079	1,143	3,039	1,660	1,660	1,294	1,384	1,468
Social and behavioral sciences	5,514	5,811	5,352	6,987	5,222	5,222	6,137	6,298	6,200
Engineering	4,203	3,963	3,843	10,358	10,199	10,199	9,483	9,180	9,024
Hungary									
All fields	41,298	36,797	37,134	37,979	39,578	41,917	40,271	35,865	36,814
S&E fields	13,338	12,686	13,109	13,597	14,355	15,489	15,271	14,117	14,083
Physical and biological sciences and mathematics and statistics	1,418	1,397	1,308	1,606	1,721	1,878	1,839	1,604	1,318
Computer sciences	1,242	1,011	958	956	935	1,099	2,135	1,991	2,184
Agricultural sciences	888	646	576	758	846	961	1,314	1,375	1,320
Social and behavioral sciences	4,553	4,200	4,267	4,376	4,326	4,277	3,630	3,210	3,443
Engineering	5,237	5,432	6,000	5,901	6,527	7,274	6,353	5,937	5,818
Iceland									
All fields	2,864	NA	2,828	2,543	NA	2,578	2,700	2,625	2,516
S&E fields	828	NA	1,060	928	NA	1,022	1,132	1,129	984
Physical and biological sciences and mathematics and statistics	122	NA	140	134	NA	129	132	122	104
Computer sciences	63	NA	87	97	NA	158	225	243	186
Agricultural sciences	14	NA	31	33	NA	37	49	45	52
Social and behavioral sciences	340	NA	483	384	NA	387	393	412	354
Engineering	289	NA	319	280	NA	311	333	307	288
India									
All fields	NA	5,469,330	6,194,887	5,926,096	6,294,907	6,331,999	6,456,386	6,419,639	6,474,715
S&E fields	NA	1,475,992	1,698,064	1,747,614	1,880,149	2,099,657	2,325,221	2,327,061	2,298,809
Physical and biological sciences and mathematics and statistics	NA	652,550	781,687	754,430	849,258	876,127	1,021,524	1,053,294	1,054,489
Computer sciences	NA	250,200	253,937	180,190	182,261	177,502	164,239	158,108	160,100

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Agricultural sciences	NA	24,335	25,399	31,194	31,993	35,382	46,109	44,860	48,787
Social and behavioral sciences	NA	NA	NA	NA	NA	161,155	198,912	197,393	203,929
Engineering	NA	548,907	637,041	781,800	816,637	849,491	894,437	873,406	831,504
Indonesia									
All fields	577,985	531,943	604,435	NA	899,759	673,231	822,182	NA	NA
S&E fields	214,762	206,049	234,221	NA	270,865	217,393	NA	NA	NA
Physical and biological sciences and mathematics and statistics	23,700	22,403	25,450	NA	13,712	18,101	NA	NA	NA
Computer sciences	14,405	13,532	15,380	NA	91,191	37,342	NA	NA	NA
Agricultural sciences	39,494	37,553	42,659	NA	30,604	24,360	NA	NA	NA
Social and behavioral sciences	34,663	31,564	35,846	NA	49,685	82,806	NA	NA	NA
Engineering	102,500	100,997	114,886	NA	85,673	54,784	NA	NA	NA
Ireland									
All fields	27,084	27,443	27,368	29,391	40,856	41,072	39,939	41,258	47,411
S&E fields	7,611	7,853	10,931	7,683	12,111	14,541	14,294	14,140	16,179
Physical and biological sciences and mathematics and statistics	1,740	2,530	2,685	1,689	2,633	3,724	3,635	3,967	4,011
Computer sciences	988	530	895	953	1,993	2,587	2,822	3,024	4,281
Agricultural sciences	274	301	301	263	611	872	930	823	989
Social and behavioral sciences	1,479	1,429	3,946	1,699	1,902	2,453	2,250	2,195	2,422
Engineering	3,130	3,063	3,104	3,079	4,972	4,905	4,657	4,131	4,476
Israel									
All fields	43,744	45,611	48,627	49,567	51,761	50,688	51,856	52,045	56,274
S&E fields	20,966	22,112	22,932	23,358	23,892	23,766	23,380	23,443	22,611
Physical and biological sciences and mathematics and statistics	2,379	2,164	2,202	2,330	2,079	2,145	2,313	2,242	2,328
Computer sciences	1,907	2,040	2,197	2,418	2,513	2,467	2,680	2,999	3,351
Agricultural sciences	217	216	231	213	250	255	256	289	256
Social and behavioral sciences	11,749	12,569	12,841	12,810	13,252	13,127	12,460	12,175	10,775
Engineering	4,716	5,124	5,462	5,587	5,799	5,773	5,671	5,739	5,902
Italy									
All fields	211,770	216,509	204,675	221,907	225,599	219,037	225,115	234,263	238,792
S&E fields	84,546	84,737	72,315	82,834	85,799	87,381	83,830	86,033	92,327
Physical and biological sciences and mathematics and statistics	13,094	13,237	12,493	14,266	14,471	14,650	14,538	14,646	15,801
Computer sciences	2,778	2,420	2,223	2,247	2,240	8,537	2,483	2,578	3,085
Agricultural sciences	3,311	4,133	4,092	4,365	4,843	5,075	5,780	6,196	6,569
Social and behavioral sciences	32,644	32,118	30,231	29,354	30,631	33,120	28,858	29,394	33,336
Engineering	32,719	32,829	23,276	32,602	33,614	25,999	32,171	33,219	33,536
Japan <sup>b</sup>									
All fields	541,428	541,428	558,692	558,853	574,005	578,990	576,012	584,071	582,020
S&E fields	321,168	325,365	319,783	316,730	173,283	180,888	178,891	173,573	172,899
Physical and biological sciences and mathematics and statistics	18,413	18,297	18,116	18,063	18,063	18,233	18,112	18,245	17,994
Computer sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA
Agricultural sciences	17,071	17,235	17,388	17,330	17,330	17,610	17,379	17,562	17,594
Social and behavioral sciences	196,061	199,784	196,735	195,024	51,577	59,069	58,100	50,224	49,476
Engineering	89,623	90,049	87,544	86,313	86,313	85,976	85,300	87,542	87,835
Latvia									
All fields	19,209	15,158	12,886	12,763	8,838	8,908	8,358	7,968	8,245
S&E fields	4,843	4,131	4,043	3,613	2,794	3,112	2,913	2,684	2,916

Table SHED-11

**S&E first university 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	363	405	396	292	280	326	258	241	259
Computer sciences	472	455	402	386	330	364	360	340	350
Agricultural sciences	157	167	161	157	160	200	165	138	258
Social and behavioral sciences	1,986	1,665	1,560	1,117	978	1,081	1,031	961	969
Engineering	1,865	1,439	1,524	1,661	1,046	1,141	1,099	1,004	1,080
<b>Lithuania</b>									
All fields	34,175	33,326	33,243	30,688	25,344	24,518	22,563	20,916	20,091
S&E fields	11,630	11,139	11,276	10,777	9,394	8,965	8,443	7,773	7,698
Physical and biological sciences and mathematics and statistics	709	698	768	798	773	797	840	663	680
Computer sciences	970	824	838	676	529	442	468	579	663
Agricultural sciences	661	547	526	590	535	559	529	563	714
Social and behavioral sciences	3,025	2,992	2,977	3,167	2,948	2,813	2,472	1,889	1,595
Engineering	6,265	6,078	6,167	5,546	4,609	4,354	4,134	4,079	4,046
<b>Luxembourg</b>									
All fields	NA	NA	635	617	599	625	750	618	627
S&E fields	NA	NA	197	177	199	190	268	236	223
Physical and biological sciences and mathematics and statistics	NA	NA	38	15	34	19	29	30	28
Computer sciences	NA	NA	26	24	14	21	33	22	34
Agricultural sciences	NA	NA	NA	0	0	0	31	0	0
Social and behavioral sciences	NA	NA	93	92	100	107	123	131	125
Engineering	NA	NA	40	46	51	43	52	53	36
<b>Malta</b>									
All fields	NA	NA	NA	2,153	2,108	2,067	2,071	2,506	2,383
S&E fields	NA	NA	NA	827	840	848	769	894	947
Physical and biological sciences and mathematics and statistics	NA	NA	NA	191	163	280	120	118	138
Computer sciences	NA	NA	NA	219	221	212	135	230	222
Agricultural sciences	NA	NA	NA	0	12	2	11	14	13
Social and behavioral sciences	NA	NA	NA	256	246	227	275	312	340
Engineering	NA	NA	NA	161	198	127	228	220	234
<b>Mexico</b>									
All fields	372,997	402,476	425,754	450,922	467,079	486,967	580,231	605,579	624,411
S&E fields	145,971	159,873	170,472	180,755	189,782	194,886	221,456	231,571	241,291
Physical and biological sciences and mathematics and statistics	11,668	11,601	12,745	12,768	14,197	15,176	16,167	14,284	14,975
Computer sciences	12,392	12,621	12,676	12,557	11,706	9,395	10,155	33,875	32,866
Agricultural sciences	6,656	6,794	8,008	8,895	9,575	10,394	11,135	12,390	13,308
Social and behavioral sciences	43,712	44,621	46,651	46,204	46,965	48,511	58,518	60,787	61,452
Engineering	71,543	84,236	90,392	100,331	107,339	111,410	125,481	110,235	118,690
<b>Netherlands</b>									
All fields	89,608	92,457	100,799	92,323	93,306	98,461	99,426	103,025	104,948
S&E fields	22,605	23,649	26,736	25,987	26,714	28,257	28,577	29,174	29,753
Physical and biological sciences and mathematics and statistics	1,379	1,569	1,777	3,547	3,762	3,977	4,171	4,465	4,738
Computer sciences	3,838	3,637	3,995	2,047	2,067	2,250	2,538	2,738	3,026
Agricultural sciences	1,021	999	1,007	927	984	1,014	937	1,012	1,059
Social and behavioral sciences	9,054	9,769	11,315	11,890	12,276	13,220	13,144	12,889	12,492
Engineering	7,313	7,675	8,642	7,576	7,625	7,796	7,787	8,070	8,438

Table SHED-11

**S&E first university 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
<b>New Zealand</b>									
All fields	29,201	31,995	34,485	34,756	35,178	36,728	36,520	37,208	30,002
S&E fields	9,541	10,410	11,242	11,412	11,499	12,042	12,450	12,523	10,427
Physical and biological sciences and mathematics and statistics	2,330	2,533	2,748	2,717	2,599	2,707	2,583	2,711	2,800
Computer sciences	1,295	1,268	1,466	1,544	1,815	2,186	2,476	2,468	1,671
Agricultural sciences	363	349	383	455	461	545	490	406	402
Social and behavioral sciences	3,257	3,914	4,102	4,031	3,855	3,755	3,828	3,727	3,858
Engineering	2,296	2,346	2,543	2,666	2,769	2,850	3,074	3,212	1,697
<b>Norway</b>									
All fields	25,863	29,094	28,387	31,573	33,297	34,110	34,290	37,758	38,963
S&E fields	6,092	6,906	6,739	8,047	8,674	8,990	8,669	10,220	10,531
Physical and biological sciences and mathematics and statistics	586	764	719	1,025	1,097	1,148	984	1,279	1,137
Computer sciences	655	854	797	962	1,121	1,122	1,194	1,448	1,590
Agricultural sciences	105	110	106	187	198	240	233	266	292
Social and behavioral sciences	2,747	3,095	2,856	2,768	3,095	3,019	2,907	3,191	3,460
Engineering	1,999	2,083	2,261	3,105	3,163	3,461	3,351	4,036	4,052
<b>Poland</b>									
All fields	391,830	423,200	420,099	282,071	256,910	238,225	218,759	222,746	196,266
S&E fields	111,317	121,906	120,656	103,833	96,989	95,076	92,830	92,795	79,725
Physical and biological sciences and mathematics and statistics	12,451	12,419	13,203	11,772	10,534	10,151	9,446	8,593	7,275
Computer sciences	12,810	13,058	12,957	9,534	8,636	8,785	8,756	9,361	9,074
Agricultural sciences	6,164	5,700	5,063	4,562	4,037	4,103	3,805	4,445	4,200
Social and behavioral sciences	44,304	45,877	42,172	34,509	29,672	26,259	26,060	26,133	21,883
Engineering	35,588	44,852	47,261	43,456	44,110	45,778	44,763	44,263	37,293
<b>Portugal</b>									
All fields	51,191	51,484	50,965	59,168	55,424	55,360	54,991	55,666	57,269
S&E fields	18,988	19,116	19,353	24,450	22,685	23,102	23,605	23,570	23,742
Physical and biological sciences and mathematics and statistics	2,128	2,223	2,392	2,731	2,765	2,866	2,979	2,979	3,056
Computer sciences	769	778	702	782	658	576	557	653	743
Agricultural sciences	815	867	676	1,068	1,052	1,157	1,185	1,180	1,291
Social and behavioral sciences	5,890	5,776	5,993	6,410	6,002	6,119	6,059	6,066	6,606
Engineering	9,386	9,472	9,590	13,459	12,208	12,384	12,825	12,692	12,046
<b>Romania</b>									
All fields	NA	NA	NA	97,661	82,850	76,780	72,147	71,125	73,430
S&E fields	NA	NA	NA	45,300	39,795	33,530	32,089	32,343	33,454
Physical and biological sciences and mathematics and statistics	NA	NA	NA	3,923	3,772	4,558	4,192	3,829	3,975
Computer sciences	NA	NA	NA	1,543	1,455	4,855	4,333	4,891	5,414
Agricultural sciences	NA	NA	NA	1,661	1,418	3,234	2,966	3,248	3,226
Social and behavioral sciences	NA	NA	NA	15,002	13,043	7,246	6,846	6,374	7,511
Engineering	NA	NA	NA	23,171	20,107	13,637	13,752	14,001	13,328
<b>Russia</b>									
All fields	1,442,317	1,441,533	1,406,050	129,375	1,234,449	1,150,775	1,223,070	1,078,609	831,676
S&E fields	463,356	445,876	429,052	67,013	473,720	407,487	527,757	482,510	391,474
Physical and biological sciences and mathematics and statistics	34,475	23,627	22,913	5,066	21,648	27,939	36,641	29,976	26,180
Computer sciences	68,668	67,765	63,072	8,342	48,064	46,443	56,036	43,654	38,026

Table SHED-11

**S&E first university 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	21,184	20,292	21,093	957	19,495	17,961	17,929	16,773	14,271
Social and behavioral sciences	90,903	94,145	92,818	33,439	165,999	96,085	159,441	172,580	143,738
Engineering	248,126	240,047	229,156	19,209	218,514	219,059	257,710	219,527	169,259
<b>Saudi Arabia</b>									
All fields	NA	85,105	90,562	96,380	130,577	130,577	154,596	NA	NA
S&E fields	NA	28,540	32,860	5,544	41,389	41,389	48,916	NA	NA
Physical and biological sciences and mathematics and statistics	NA	12,261	13,685	NA	15,264	15,264	16,916	NA	NA
Computer sciences	NA	3,967	4,919	NA	5,663	5,663	7,176	NA	NA
Agricultural sciences	NA	220	281	395	320	320	387	NA	NA
Social and behavioral sciences	NA	8,675	9,929	NA	14,195	14,195	17,596	NA	NA
Engineering	NA	3,417	4,046	5,149	5,947	5,947	6,841	NA	NA
<b>Slovakia</b>									
All fields	42,027	38,602	36,263	34,478	32,354	29,346	26,933	24,001	22,191
S&E fields	12,459	11,384	10,932	11,839	11,034	10,153	9,457	8,172	7,543
Physical and biological sciences and mathematics and statistics	1,751	1,596	1,407	1,784	1,607	1,551	1,442	1,243	1,103
Computer sciences	1,487	1,364	1,261	970	971	1,054	992	951	967
Agricultural sciences	779	644	667	765	682	644	716	638	630
Social and behavioral sciences	3,421	3,262	3,332	4,124	3,931	3,443	3,223	2,756	2,443
Engineering	5,021	4,518	4,265	4,196	3,843	3,461	3,084	2,584	2,400
<b>Slovenia</b>									
All fields	9,616	10,255	14,686	13,918	13,181	12,545	21,244	9,621	9,441
S&E fields	3,506	4,011	5,997	5,608	5,284	4,911	8,186	3,694	3,678
Physical and biological sciences and mathematics and statistics	405	545	741	814	759	690	837	615	621
Computer sciences	188	305	531	498	551	402	660	337	326
Agricultural sciences	295	305	374	314	277	261	565	228	266
Social and behavioral sciences	1,296	1,324	2,058	1,794	1,697	1,613	2,484	1,066	955
Engineering	1,322	1,532	2,293	2,188	2,000	1,945	3,640	1,449	1,511
<b>South Africa</b>									
All fields	57,188	61,194	64,547	72,762	85,203	92,321	NA	NA	NA
S&E fields	21,625	22,497	23,458	8,718	32,208	35,944	NA	NA	NA
Physical and biological sciences and mathematics and statistics	3,748	5,163	5,714	NA	7,600	8,060	NA	NA	NA
Computer sciences	1,751	1,873	1,693	NA	2,670	2,746	NA	NA	NA
Agricultural sciences	1,101	1,123	1,360	1,639	1,676	1,809	NA	NA	NA
Social and behavioral sciences	9,498	8,623	8,626	NA	13,156	15,258	NA	NA	NA
Engineering	5,527	5,715	6,065	7,079	7,106	8,071	NA	NA	NA
<b>South Korea</b>									
All fields	311,175	325,695	330,104	325,113	329,444	350,706	359,288	359,862	347,179
S&E fields	128,716	135,254	134,600	130,533	130,648	141,363	146,438	145,567	139,111
Physical and biological sciences and mathematics and statistics	23,701	24,522	23,776	19,184	20,102	25,682	26,456	21,325	20,227
Computer sciences	7,562	7,774	7,397	15,818	15,456	7,450	7,837	17,172	16,841
Agricultural sciences	3,283	3,162	3,132	4,727	4,929	3,039	3,047	5,445	5,330
Social and behavioral sciences	20,814	22,439	23,319	23,334	23,424	25,203	26,731	26,239	24,791
Engineering	73,356	77,357	76,976	67,470	66,737	79,989	82,367	75,386	71,922
<b>Spain</b>									
All fields	197,890	220,221	208,961	216,903	235,672	225,531	203,253	198,568	195,382
S&E fields	68,021	77,137	75,110	81,704	83,052	83,145	71,040	68,837	62,383



Table SHED-11

**S&E first university 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	7,575	8,988	9,545	12,014	12,233	12,853	11,277	11,525	11,480
Computer sciences	8,831	7,407	7,768	7,179	6,859	6,374	5,196	5,144	4,423
Agricultural sciences	4,122	3,587	3,741	4,196	4,033	3,313	3,255	3,533	2,683
Social and behavioral sciences	16,358	16,303	18,195	20,842	21,241	19,466	18,728	18,814	19,062
Engineering	31,135	40,852	35,861	37,473	38,686	41,139	32,584	29,821	24,735
Sweden									
All fields	40,702	46,018	43,113	34,016	36,176	36,471	50,796	46,736	47,881
S&E fields	14,044	15,519	16,114	11,222	12,408	12,886	19,241	17,265	17,367
Physical and biological sciences and mathematics and statistics	1,455	1,499	1,319	901	1,061	1,243	1,456	1,288	1,180
Computer sciences	803	988	1,084	1,062	1,273	1,338	1,450	1,426	1,490
Agricultural sciences	246	278	344	119	145	167	297	333	296
Social and behavioral sciences	4,812	5,520	6,142	5,603	5,975	6,152	7,256	6,083	6,132
Engineering	6,728	7,234	7,225	3,537	3,954	3,986	8,782	8,135	8,269
Switzerland									
All fields	47,286	47,780	48,408	50,083	52,433	53,798	53,378	54,548	55,268
S&E fields	14,306	14,926	15,109	15,914	16,205	17,106	17,371	17,381	17,835
Physical and biological sciences and mathematics and statistics	1,936	2,032	2,177	2,290	2,208	2,324	2,288	2,313	2,528
Computer sciences	1,312	1,288	1,281	1,394	1,368	1,543	1,593	1,647	1,711
Agricultural sciences	908	889	760	939	770	838	856	782	895
Social and behavioral sciences	3,045	3,275	3,111	3,123	3,030	3,178	3,191	3,019	3,022
Engineering	7,105	7,442	7,780	8,168	8,829	9,223	9,443	9,620	9,679
Taiwan									
All fields	227,174	228,878	232,448	226,799	228,762	229,546	232,417	228,793	231,003
S&E fields	94,431	94,128	94,607	90,467	89,067	87,291	86,352	85,448	85,718
Physical and biological sciences and mathematics and statistics	10,387	10,289	10,662	10,396	9,836	9,568	9,917	11,364	11,187
Computer sciences	14,489	14,012	14,447	13,884	13,694	13,691	12,959	16,025	16,849
Agricultural sciences	4,414	4,679	4,779	5,002	5,006	4,723	4,949	2,772	2,718
Social and behavioral sciences	12,676	13,069	12,830	12,670	12,533	12,380	13,140	10,134	10,418
Engineering	52,465	52,079	51,889	48,515	47,998	46,929	45,387	45,153	44,546
Turkey									
All fields	289,013	284,459	329,175	340,396	399,049	458,564	437,446	454,207	454,995
S&E fields	110,119	85,489	99,812	101,214	128,672	139,684	146,128	149,730	149,986
Physical and biological sciences and mathematics and statistics	18,035	22,568	26,876	26,876	28,154	24,464	18,826	16,277	14,575
Computer sciences	3,057	3,037	3,379	3,379	917	1,118	665	810	918
Agricultural sciences	6,016	5,772	5,612	7,014	8,050	7,498	7,501	7,301	7,075
Social and behavioral sciences	57,485	28,423	34,618	34,618	47,834	54,652	59,999	59,758	57,958
Engineering	25,526	25,689	29,327	29,327	43,717	51,952	59,137	65,584	69,460
United Kingdom									
All fields	350,179	367,875	389,296	402,682	444,152	394,636	394,636	399,718	405,105
S&E fields	135,845	143,176	150,787	160,363	180,340	165,792	165,792	169,832	179,823
Physical and biological sciences and mathematics and statistics	39,140	41,731	44,119	63,771	72,818	64,498	64,498	66,964	70,889
Computer sciences	14,202	14,335	15,089	15,497	17,843	15,567	15,567	15,275	17,513
Agricultural sciences	3,039	3,375	3,474	3,621	4,011	3,783	3,783	3,844	3,598
Social and behavioral sciences	47,551	50,648	54,343	43,021	48,579	48,626	48,626	50,821	53,469
Engineering	31,914	33,087	33,762	34,453	37,089	33,319	33,319	32,928	34,353

Table SHED-11

**S&E first university 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	1,652,104	1,717,291	1,794,282	1,842,617	1,872,052	1,897,211	1,922,705	1,958,757	1,987,274
S&E fields	624,289	653,341	687,221	712,383	733,698	751,195	768,291	790,324	811,195
Physical and biological sciences and mathematics and statistics	138,824	146,798	158,524	168,027	174,909	181,792	187,463	193,137	198,064
Computer sciences	44,468	47,960	52,430	56,047	60,365	64,836	69,435	76,720	85,189
Agricultural sciences	16,545	17,065	17,588	18,382	19,486	20,461	20,846	21,152	21,630
Social and behavioral sciences	326,215	339,341	351,197	358,268	361,964	361,183	359,261	358,592	358,600
Engineering	98,237	102,177	107,482	111,659	116,974	122,923	131,286	140,723	147,712

NA = not available.

<sup>a</sup> China data include computer sciences under engineering.<sup>b</sup> 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 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):**

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*