

TABLE 22. Full-time graduate science, engineering, and health students without U.S. citizenship or permanent resident status in all institutions, by detailed field: 1995-2002

Field	1995	1996	1997	1998	1999	2000	2001	2002
All surveyed fields	86,711	87,376	88,707	91,021	98,176	110,213	120,799	130,821
Science and engineering	83,058	83,365	84,695	86,998	93,817	105,682	115,726	124,838
Science	53,868	53,982	53,884	54,949	58,135	64,534	70,142	74,743
Physical sciences	10,476	10,299	10,077	9,923	10,335	10,891	11,460	12,345
Astronomy	225	212	184	206	234	259	271	295
Chemistry	5,774	5,719	5,591	5,546	5,627	5,745	6,162	6,836
Physics	4,419	4,323	4,257	4,120	4,405	4,812	4,937	5,129
Physical sciences, nec	58	45	45	51	69	75	90	85
Earth, atmosphere, and ocean science	2,586	2,396	2,221	2,186	2,216	2,403	2,472	2,537
Atmospheric sciences	248	268	281	234	257	283	266	292
Geosciences	1,390	1,300	1,178	1,119	1,110	1,182	1,235	1,264
Oceanography	583	510	471	483	463	489	477	453
Earth, atmosphere, and ocean science, nec	365	318	291	350	386	449	494	528
Mathematical sciences	5,119	5,081	4,882	4,690	5,208	5,395	5,811	6,300
Mathematics and applied mathematics	4,166	4,148	3,960	3,788	4,084	4,144	4,328	4,688
Statistics	953	933	922	902	1,124	1,251	1,483	1,612
Computer sciences	7,883	8,795	9,757	10,930	12,748	16,928	19,853	20,475
Agricultural sciences	2,812	2,622	2,411	2,284	2,195	2,098	2,227	2,322
Biological sciences	11,042	10,422	10,159	10,395	10,207	10,820	11,470	12,748
Anatomy	181	165	161	149	147	172	169	184
Biochemistry	1,594	1,455	1,370	1,402	1,387	1,542	1,519	1,630
Biology	1,675	1,659	1,764	1,785	1,714	1,775	1,904	2,167
Biometry/epidemiology	498	466	436	604	654	695	762	953
Biophysics	198	175	170	162	151	200	257	287
Botany	566	564	551	565	549	538	546	570
Cell biology	858	839	823	833	827	965	1,077	1,207
Ecology	161	143	133	135	156	161	173	191
Entomology/parasitology	332	285	259	266	278	265	247	256
Genetics	342	375	399	382	370	363	418	411
Microbiology, immunology, and virology	1,116	1,009	939	904	900	892	968	1,157
Nutrition	1,118	1,025	960	925	893	944	1,014	1,026
Pathology	322	319	281	278	283	287	283	290
Pharmacology	532	560	541	562	552	611	620	653
Physiology	509	420	401	417	433	424	415	435
Zoology	220	204	177	160	132	164	182	199
Biosciences, nec	820	759	794	866	781	822	916	1,132
Psychology	1,648	1,623	1,670	1,738	1,737	1,860	2,016	2,173
Clinical psychology	239	253	275	303	319	326	355	395
Psychology, general	620	571	579	584	599	719	784	841
Psychology, nec	789	799	816	851	819	815	877	937
Social sciences	12,302	12,744	12,707	12,803	13,489	14,139	14,833	15,843
Agricultural economics	899	804	821	786	807	904	950	975
Anthropology (cultural and social)	584	592	596	637	701	695	658	704
Economics (except agricultural)	4,691	4,904	4,773	4,651	4,916	5,227	5,700	6,006
Geography	396	398	442	492	497	541	629	632
History and philosophy of science	44	49	64	61	57	67	67	65
Linguistics	874	883	862	882	858	866	880	850
Political science	2,675	2,956	2,863	2,943	3,271	3,452	3,519	3,946
Sociology	943	936	990	942	1,013	1,078	1,069	1,157
Sociology/anthropology	77	67	73	87	63	67	72	60
Social sciences, nec	1,119	1,155	1,223	1,322	1,306	1,242	1,289	1,448

See explanatory information, if any, and SOURCE at end of table.

TABLE 22. Full-time graduate science, engineering, and health students without U.S. citizenship or permanent resident status in all institutions, by detailed field: 1995-2002

Field	1995	1996	1997	1998	1999	2000	2001	2002
Engineering	29,190	29,383	30,811	32,049	35,682	41,148	45,584	50,095
Aerospace engineering	1,082	1,159	1,202	1,297	1,367	1,401	1,537	1,569
Agricultural engineering	445	406	351	358	369	333	366	364
Biomedical engineering	662	633	652	659	799	877	1,054	1,404
Chemical engineering	2,671	2,557	2,540	2,571	2,767	3,069	3,199	3,416
Civil engineering	4,596	4,282	4,324	4,283	4,745	5,441	5,803	6,278
Electrical engineering	8,855	9,349	10,475	11,469	12,926	15,709	17,490	19,596
Engineering science	418	426	398	485	469	576	653	745
Industrial/manufacturing engineering	2,504	2,638	2,673	2,639	3,053	3,725	4,371	4,604
Mechanical engineering	4,580	4,666	4,841	4,861	5,324	6,181	6,641	7,319
Metallurgical/materials engineering	1,722	1,736	1,772	1,842	1,851	1,956	2,201	2,380
Mining engineering	147	112	106	56	90	97	94	94
Nuclear engineering	347	284	274	273	298	312	337	315
Petroleum engineering	311	317	381	419	449	330	340	410
Engineering, nec	850	818	822	837	1,175	1,141	1,498	1,601
Health	3,653	4,011	4,012	4,023	4,359	4,531	5,073	5,983
Medical fields	1,232	1,327	1,230	1,283	1,450	1,333	1,746	2,303
Anesthesiology	4	3	2	8	1	2	1	4
Cardiology	10	11	23	13	17	14	16	18
Endocrinology	26	22	19	17	17	13	18	18
Gastroenterology	0	0	3	0	0	1	1	1
Hematology	0	0	0	0	0	4	0	2
Neurology	241	267	213	238	261	315	357	422
Obstetrics and gynecology	1	3	0	0	1	1	0	2
Oncology/cancer research	41	56	34	31	49	40	47	40
Ophthalmology	12	4	6	15	16	16	9	42
Otorhinolaryngology	0	0	0	0	2	0	0	0
Pediatrics	21	15	24	23	23	32	37	51
Preventive medicine/community health	736	816	788	825	936	755	1,086	1,489
Psychiatry	3	15	15	1	3	2	1	4
Pulmonary disease	0	0	0	0	0	0	0	1
Radiology	50	40	38	29	29	27	33	50
Surgery	6	4	5	5	7	9	7	2
Clinical medicine, nec	81	71	60	78	88	102	133	157
Other health fields	2,421	2,684	2,782	2,740	2,909	3,198	3,327	3,680
Dental sciences	260	309	329	317	272	336	294	318
Nursing	296	263	305	306	352	337	316	398
Pharmaceutical sciences	950	1,048	1,062	1,048	1,054	1,195	1,238	1,313
Speech pathology/audiology	270	290	295	312	336	351	360	366
Veterinary sciences	254	284	286	259	285	307	326	337
Health related, nec	391	490	505	498	610	672	793	948

nec = not elsewhere classified.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering.