

TABLE 43. U.S. citizen or permanent resident full-time graduate students in science, engineering, and health fields in doctorate-granting institutions, by detailed field: 1997–2004

Field	1997	1998	1999	2000	2001	2002	2003	2004
All surveyed fields	220,643	217,902	217,885	212,411	214,736	227,459	243,180	252,015
Science and engineering	183,500	179,304	177,494	172,740	175,201	186,050	197,584	203,562
Science	149,524	146,941	146,122	142,470	144,254	152,071	160,000	165,403
Agricultural sciences	6,584	6,538	6,761	6,859	6,761	6,906	7,193	7,109
Biological sciences	35,035	34,904	35,274	34,642	35,343	37,368	38,856	39,645
Anatomy	636	584	561	580	506	681	639	645
Biochemistry	3,425	3,456	3,393	3,160	3,102	3,254	3,449	3,377
Biology	7,399	7,122	7,102	6,916	6,921	7,232	7,762	8,049
Biometry/epidemiology	1,557	1,962	1,988	1,867	1,974	2,059	2,179	2,212
Biophysics	558	545	530	519	580	609	658	753
Botany	1,249	1,234	1,208	1,162	1,170	1,219	1,172	1,095
Cell biology	3,145	3,197	3,421	3,421	3,427	3,728	3,860	3,838
Ecology	1,039	1,058	1,074	1,064	1,191	1,207	1,236	1,273
Entomology/parasitology	736	734	693	714	742	745	753	761
Genetics	1,247	1,227	1,266	1,237	1,273	1,368	1,432	1,459
Microbiology/immunology/virology	3,427	3,466	3,571	3,605	3,527	3,735	3,849	3,875
Nutrition	2,228	2,117	2,140	2,071	2,128	2,201	2,156	2,181
Pathology	1,139	1,061	1,081	1,006	1,067	1,050	1,001	1,050
Pharmacology	1,920	2,000	2,027	2,016	2,126	2,170	2,185	2,194
Physiology	1,701	1,573	1,443	1,432	1,396	1,482	1,558	1,636
Zoology	1,234	1,168	1,155	1,070	1,047	974	931	897
Biosciences, nec	2,395	2,400	2,621	2,802	3,166	3,654	4,036	4,350
Computer sciences	7,839	8,141	8,750	8,346	9,068	10,837	11,775	11,966
Earth, atmospheric, and ocean sciences	7,801	7,868	7,886	7,754	7,607	8,137	8,544	8,700
Atmospheric sciences	684	622	534	559	545	623	749	710
Geosciences	4,063	3,938	3,994	3,950	3,858	3,979	4,096	4,182
Oceanography	1,457	1,524	1,620	1,643	1,541	1,653	1,747	1,775
Earth/atmospheric/ocean sciences, nec	1,597	1,784	1,738	1,602	1,663	1,882	1,952	2,033
Mathematical sciences	6,948	6,712	6,253	6,041	6,287	6,933	7,381	7,780
Mathematics/applied mathematics	5,801	5,591	5,270	5,071	5,330	5,876	6,246	6,597
Statistics	1,147	1,121	983	970	957	1,057	1,135	1,183
Physical sciences	16,494	16,222	16,019	15,319	15,440	15,929	16,940	17,839
Astronomy	584	581	574	564	589	651	706	717
Chemistry	10,180	10,047	10,119	9,693	9,714	9,795	10,213	10,687
Physics	5,609	5,486	5,198	4,935	5,006	5,312	5,820	6,251
Physical sciences, nec	121	108	128	127	131	171	201	184
Psychology	28,753	28,321	27,977	27,733	27,276	27,298	28,052	29,906
Clinical psychology	8,825	8,755	8,920	8,844	8,719	8,412	8,561	9,033
Psychology, general	9,562	9,471	8,954	8,779	8,510	8,175	8,546	8,492
Psychology, nec	10,366	10,095	10,103	10,110	10,047	10,711	10,945	12,381
Social sciences	40,070	38,235	37,202	35,776	36,472	38,663	41,259	42,458
Agricultural economics	897	884	878	874	917	999	1,024	985
Anthropology (cultural/social)	5,044	4,933	4,936	4,786	4,816	4,908	5,052	4,921
Economics (except agricultural)	3,938	3,800	3,360	3,243	3,350	3,492	3,703	3,783
Geography	2,325	2,213	2,124	1,963	2,131	2,102	2,307	2,311
History and philosophy of science	313	326	357	307	306	299	314	362
Linguistics	1,503	1,357	1,278	1,190	1,223	1,296	1,393	1,366
Political science	13,035	12,270	11,880	11,551	11,671	13,157	14,221	15,297
Sociology	5,392	5,135	4,968	4,803	4,839	4,969	5,124	4,987
Sociology/anthropology	543	506	444	448	489	489	487	511
Social sciences, nec	7,080	6,811	6,977	6,611	6,730	6,952	7,634	7,935
Engineering	33,976	32,363	31,372	30,270	30,947	33,979	37,584	38,159

TABLE 43. U.S. citizen or permanent resident full-time graduate students in science, engineering, and health fields in doctorate-granting institutions, by detailed field: 1997–2004

Field	1997	1998	1999	2000	2001	2002	2003	2004
Aerospace engineering	1,312	1,257	1,270	1,353	1,277	1,421	1,663	1,672
Agricultural engineering	397	398	398	373	392	395	430	404
Biomedical engineering	1,767	1,821	1,915	1,972	2,110	2,435	2,959	3,285
Chemical engineering	3,251	3,037	2,812	2,779	2,608	2,847	2,910	3,044
Civil engineering	6,810	6,590	6,259	6,171	6,142	6,545	7,110	7,322
Electrical engineering	8,283	7,794	7,264	6,913	7,418	8,090	8,860	8,634
Engineering science	618	626	561	513	555	683	877	822
Industrial engineering	2,350	2,155	2,350	2,238	2,060	2,447	2,609	2,443
Mechanical engineering	5,524	5,146	4,950	4,559	4,746	5,105	5,739	5,757
Metallurgical/materials engineering	1,891	1,860	1,684	1,624	1,759	1,866	1,950	1,983
Mining engineering	154	161	162	87	93	107	110	128
Nuclear engineering	434	389	343	348	314	340	412	470
Petroleum engineering	76	59	75	184	195	235	92	118
Engineering, nec	1,109	1,070	1,329	1,156	1,278	1,463	1,863	2,077
Health	37,143	38,598	40,391	39,671	39,535	41,409	45,596	48,453
Medical fields	8,547	9,374	9,819	9,459	9,695	10,526	11,923	12,224
Anesthesiology	566	583	574	559	587	554	702	720
Cardiology	9	23	45	39	34	24	15	63
Endocrinology	22	41	49	42	33	41	32	38
Gastroenterology	0	6	7	13	6	6	9	13
Hematology	3	1	3	2	6	6	18	23
Neurology	1,437	1,535	1,592	1,607	1,715	2,034	2,087	2,041
Obstetrics/gynecology	18	10	8	12	18	16	15	9
Oncology/cancer research	159	175	196	185	199	189	199	225
Ophthalmology	15	6	15	25	24	124	375	383
Otorhinolaryngology	2	0	1	8	4	8	9	6
Pediatrics	251	237	253	319	279	312	308	285
Preventive medicine/community health	4,916	5,674	5,917	5,435	5,347	5,537	6,224	6,340
Psychiatry	79	39	47	83	122	123	58	171
Pulmonary disease	0	0	6	7	8	3	5	7
Radiology	160	132	139	124	134	128	146	114
Surgery	152	104	106	119	90	63	63	52
Clinical medicine, nec	758	808	861	880	1,089	1,358	1,658	1,734
Other health	28,596	29,224	30,572	30,212	29,840	30,883	33,673	36,229
Dental sciences	961	967	954	965	1,028	999	1,230	1,205
Nursing	7,556	7,301	7,922	7,470	7,535	8,344	8,918	9,374
Pharmaceutical sciences	1,162	1,208	1,550	1,581	1,522	1,233	2,084	2,287
Speech pathology/audiology	7,240	7,353	7,678	7,755	7,474	7,522	7,825	8,206
Veterinary sciences	742	789	767	847	918	1,081	1,042	1,023
Health related, nec	10,935	11,606	11,701	11,594	11,363	11,704	12,574	14,134

nec = not elsewhere classified.

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