

TABLE 32. 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	437,331	434,750	441,951	442,188	457,641	485,813	508,970	516,616
Science and engineering	369,894	366,411	371,931	373,830	388,720	412,173	429,343	432,240
Science	274,286	271,985	275,727	275,020	284,861	299,104	309,873	315,633
Agricultural sciences	11,462	11,406	11,546	11,259	11,425	11,859	12,414	12,516
Biological sciences	53,200	53,113	53,465	52,888	54,322	57,664	60,750	62,599
Anatomy	856	785	749	795	735	951	908	917
Biochemistry	5,065	5,107	5,060	4,925	4,855	5,148	5,473	5,520
Biology	12,075	11,646	11,457	10,976	10,966	11,415	12,190	12,854
Biometry/epidemiology	2,896	3,514	3,704	3,615	3,817	4,071	4,439	4,674
Biophysics	748	737	710	751	877	953	1,032	1,180
Botany	2,076	2,033	1,965	1,894	1,913	1,966	1,900	1,830
Cell biology	4,126	4,202	4,453	4,622	4,726	5,187	5,492	5,661
Ecology	1,492	1,535	1,576	1,609	1,746	1,787	2,057	2,022
Entomology/parasitology	1,161	1,168	1,145	1,104	1,170	1,191	1,206	1,241
Genetics	1,729	1,682	1,730	1,655	1,776	1,841	2,008	2,077
Microbiology/immunology/virology	4,780	4,751	4,795	4,799	4,785	5,188	5,232	5,357
Nutrition	4,325	4,183	4,232	4,169	4,182	4,271	4,317	4,335
Pathology	1,674	1,580	1,580	1,531	1,637	1,613	1,541	1,540
Pharmacology	2,597	2,730	2,757	2,963	3,140	3,234	3,357	3,122
Physiology	2,298	2,151	2,064	1,993	1,944	2,053	2,179	2,272
Zoology	1,620	1,580	1,519	1,443	1,409	1,347	1,300	1,234
Biosciences, nec	3,682	3,729	3,969	4,044	4,644	5,448	6,119	6,763
Computer sciences	31,390	32,997	36,276	40,185	44,494	47,976	46,954	44,735
Earth, atmospheric, and ocean sciences	13,249	13,029	12,910	12,818	12,751	13,130	13,528	14,028
Atmospheric sciences	1,081	954	906	956	918	1,027	1,138	1,077
Geosciences	6,586	6,316	6,286	6,266	6,200	6,317	6,503	6,913
Oceanography	2,345	2,426	2,498	2,545	2,471	2,518	2,584	2,705
Earth/atmospheric/ocean sciences, nec	3,237	3,333	3,220	3,051	3,162	3,268	3,303	3,333
Mathematical sciences	15,278	14,916	14,686	14,320	15,218	16,500	17,489	18,062
Mathematics/applied mathematics	12,633	12,310	11,998	11,541	12,189	13,110	13,689	14,203
Statistics	2,645	2,606	2,688	2,779	3,029	3,390	3,800	3,859
Physical sciences	30,065	29,637	29,834	29,543	30,211	31,423	33,392	34,817
Astronomy	778	820	832	888	916	990	1,080	1,119
Chemistry	18,033	17,781	17,804	17,486	17,789	18,453	19,449	20,168
Physics	10,965	10,652	10,690	10,674	11,059	11,478	12,335	13,084
Physical sciences, nec	289	384	508	495	447	502	528	446
Psychology	42,602	42,158	41,623	40,311	40,769	41,184	42,141	43,735
Clinical psychology	11,657	11,363	11,531	11,361	11,337	11,330	11,792	12,120
Psychology, general	13,562	13,491	12,684	12,155	12,379	11,900	11,999	11,974
Psychology, nec	17,383	17,304	17,408	16,795	17,053	17,954	18,350	19,641
Social sciences	77,040	74,729	75,387	73,696	75,671	79,368	83,205	85,141
Agricultural economics	2,038	1,992	2,011	2,076	2,153	2,181	2,315	2,192
Anthropology (cultural/social)	7,249	7,232	7,275	7,286	7,203	7,166	7,417	7,413
Economics (except agricultural)	10,649	10,221	10,058	10,209	10,885	11,366	11,523	11,555
Geography	3,882	3,861	3,830	3,648	3,923	3,951	4,255	4,295
History and philosophy of science	443	449	503	472	496	472	506	602
Linguistics	2,793	2,662	2,570	2,456	2,505	2,564	2,699	2,649
Political science	27,487	26,384	26,829	26,417	27,029	29,726	31,425	33,114
Sociology	8,499	8,060	7,986	7,769	7,864	7,954	8,020	7,900
Sociology/anthropology	855	835	719	728	788	710	753	807
Social sciences, nec	13,145	13,033	13,606	12,635	12,825	13,278	14,292	14,614
Engineering	95,608	94,426	96,204	98,810	103,859	113,069	119,470	116,607
Aerospace engineering	3,029	3,096	3,290	3,337	3,396	3,627	3,969	3,997

TABLE 32. 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
Agricultural engineering	941	925	934	899	907	912	1,012	998
Biomedical engineering	2,785	2,850	3,069	3,188	3,574	4,328	5,296	5,834
Chemical engineering	7,196	7,013	6,821	6,996	6,840	7,290	7,376	7,334
Civil engineering	16,247	15,653	15,472	15,815	16,012	17,032	18,156	17,880
Electrical engineering	28,675	29,117	29,631	31,360	33,760	37,208	38,326	36,132
Engineering science	1,636	1,685	1,604	1,601	1,759	1,985	2,187	2,134
Industrial engineering	10,961	10,310	10,982	11,363	12,082	13,261	13,481	12,951
Mechanical engineering	14,499	14,082	14,321	14,609	15,245	16,483	17,547	17,222
Metallurgical/materials engineering	4,592	4,587	4,404	4,309	4,660	4,933	5,075	4,998
Mining engineering	333	290	320	276	229	256	266	298
Nuclear engineering	868	821	830	792	801	795	885	971
Petroleum engineering	557	567	630	621	652	759	847	843
Engineering, nec	3,289	3,430	3,896	3,644	3,942	4,200	5,047	5,015
Health	67,437	68,339	70,020	68,358	68,921	73,640	79,627	84,376
Medical fields	14,569	15,836	16,474	15,684	16,587	18,140	19,482	19,810
Anesthesiology	616	650	642	623	698	696	891	880
Cardiology	33	36	63	53	50	43	36	79
Endocrinology	43	58	67	57	53	60	80	63
Gastroenterology	3	6	7	14	7	7	11	16
Hematology	3	1	5	6	6	13	25	30
Neurology	1,717	1,825	1,907	1,982	2,136	2,513	2,665	2,642
Obstetrics/gynecology	18	13	16	16	28	23	28	17
Oncology/cancer research	198	209	250	239	261	231	234	274
Ophthalmology	30	31	49	58	46	181	413	423
Otorhinolaryngology	2	0	3	9	4	8	9	12
Pediatrics	342	328	316	403	380	463	429	424
Preventive medicine/community health	10,034	11,209	11,600	10,528	10,779	11,463	11,886	11,988
Psychiatry	135	86	87	141	229	268	216	348
Pulmonary disease	0	0	6	7	8	5	14	7
Radiology	221	191	187	168	198	217	246	211
Surgery	171	122	122	147	130	86	84	75
Clinical medicine, nec	1,003	1,071	1,147	1,233	1,574	1,863	2,215	2,321
Other health	52,868	52,503	53,546	52,674	52,334	55,500	60,145	64,566
Dental sciences	1,491	1,518	1,467	1,430	1,494	1,446	1,654	1,697
Nursing	22,571	21,067	21,091	19,724	19,695	20,656	22,044	24,468
Pharmaceutical sciences	2,694	2,869	3,398	3,592	3,666	4,529	5,492	5,220
Speech pathology/audiology	9,654	9,717	9,962	10,254	9,899	10,108	10,528	10,841
Veterinary sciences	1,224	1,288	1,314	1,367	1,476	1,691	1,719	1,732
Health related, nec	15,234	16,044	16,314	16,307	16,104	17,070	18,708	20,608

nec = not elsewhere classified.

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