

TABLE 33. Graduate students in science, engineering, and health fields in public doctorate-granting institutions, by detailed field: 1997–2004

Field	1997	1998	1999	2000	2001	2002	2003	2004
All surveyed fields	304,488	301,547	306,953	310,240	320,865	343,306	362,165	361,291
Science and engineering	255,721	252,884	256,747	260,200	270,564	289,519	304,052	301,853
Science	187,138	185,167	187,577	187,702	194,059	204,650	214,004	215,355
Agricultural sciences	11,045	10,978	11,128	10,795	10,917	11,310	11,791	11,931
Biological sciences	37,780	37,782	37,808	37,435	38,215	40,586	43,122	43,466
Anatomy	659	584	562	591	552	700	643	631
Biochemistry	3,596	3,609	3,561	3,499	3,474	3,626	3,887	3,821
Biology	8,419	8,086	8,064	7,794	7,749	8,170	8,775	9,161
Biometry/epidemiology	1,718	2,143	2,200	2,192	2,356	2,635	2,856	2,724
Biophysics	419	417	416	449	533	613	680	732
Botany	1,933	1,897	1,825	1,803	1,827	1,901	1,826	1,759
Cell biology	2,533	2,678	2,816	2,980	3,080	3,387	3,607	3,640
Ecology	1,402	1,446	1,456	1,483	1,583	1,579	1,843	1,841
Entomology/parasitology	1,101	1,109	1,087	1,055	1,119	1,138	1,158	1,197
Genetics	1,160	1,097	1,115	1,052	1,121	1,112	1,253	1,231
Microbiology/immunology/virology	3,313	3,256	3,215	3,200	3,191	3,388	3,377	3,389
Nutrition	3,438	3,411	3,408	3,226	3,220	3,207	3,308	3,341
Pathology	1,063	1,074	1,053	1,015	1,033	984	995	998
Pharmacology	1,750	1,829	1,848	2,058	2,039	2,070	2,283	2,025
Physiology	1,373	1,341	1,305	1,175	1,111	1,179	1,248	1,306
Zoology	1,556	1,522	1,461	1,406	1,354	1,287	1,244	1,204
Biosciences, nec	2,347	2,283	2,416	2,457	2,873	3,610	4,139	4,466
Computer sciences	19,403	20,322	22,496	24,794	27,084	29,598	29,803	27,807
Earth, atmospheric, and ocean sciences	11,136	10,928	10,812	10,755	10,616	10,950	11,328	11,702
Atmospheric sciences	1,057	933	889	931	891	991	1,102	1,033
Geosciences	5,391	5,130	5,127	5,128	5,046	5,140	5,350	5,686
Oceanography	1,954	2,043	2,091	2,142	2,108	2,124	2,165	2,276
Earth/atmospheric/ocean sciences, nec	2,734	2,822	2,705	2,554	2,571	2,695	2,711	2,707
Mathematical sciences	11,540	11,176	11,050	11,013	11,802	12,775	13,611	13,967
Mathematics/applied mathematics	9,403	9,121	8,881	8,849	9,437	10,080	10,577	10,899
Statistics	2,137	2,055	2,169	2,164	2,365	2,695	3,034	3,068
Physical sciences	21,877	21,759	21,804	21,712	22,159	23,118	24,522	25,653
Astronomy	471	509	511	542	538	566	637	663
Chemistry	13,233	13,169	13,082	12,949	13,147	13,643	14,330	14,894
Physics	7,889	7,710	7,711	7,735	8,040	8,427	9,034	9,657
Physical sciences, nec	284	371	500	486	434	482	521	439
Psychology	21,901	21,539	20,919	20,374	20,445	21,172	21,630	21,540
Clinical psychology	3,183	3,006	3,057	3,072	2,969	3,020	3,022	3,104
Psychology, general	8,721	8,521	8,006	7,600	7,704	7,750	8,056	7,942
Psychology, nec	9,997	10,012	9,856	9,702	9,772	10,402	10,552	10,494
Social sciences	52,456	50,683	51,560	50,824	52,821	55,141	58,197	59,289
Agricultural economics	1,968	1,925	1,946	2,016	2,091	2,120	2,243	2,107
Anthropology (cultural/social)	5,183	5,169	5,282	5,302	5,259	5,237	5,507	5,546
Economics (except agricultural)	6,873	6,488	6,497	6,528	7,026	7,534	7,754	7,982
Geography	3,589	3,553	3,505	3,327	3,621	3,675	3,956	3,999
History and philosophy of science	222	222	296	272	298	273	294	384
Linguistics	1,953	1,876	1,834	1,761	1,805	1,886	1,995	2,003
Political science	16,341	15,485	16,107	15,858	16,673	17,968	19,135	19,995
Sociology	6,341	6,097	5,879	5,744	5,876	5,969	5,971	5,944
Sociology/anthropology	690	678	605	602	620	592	619	672
Social sciences, nec	9,296	9,190	9,609	9,414	9,552	9,887	10,723	10,657
Engineering	68,583	67,717	69,170	72,498	76,505	84,869	90,048	86,498
Aerospace engineering	2,310	2,295	2,308	2,350	2,390	2,609	2,859	2,935

TABLE 33. Graduate students in science, engineering, and health fields in public doctorate-granting institutions, by detailed field: 1997–2004

Field	1997	1998	1999	2000	2001	2002	2003	2004
Agricultural engineering	893	880	888	845	839	848	947	936
Biomedical engineering	1,824	1,842	1,991	2,046	2,196	2,772	3,544	3,753
Chemical engineering	5,185	5,064	4,859	5,060	4,898	5,359	5,431	5,352
Civil engineering	12,522	11,998	12,135	12,521	12,805	13,607	14,722	14,486
Electrical engineering	19,115	19,131	20,056	21,976	23,857	26,965	28,104	26,032
Engineering science	1,117	1,063	1,102	986	1,085	1,221	1,471	1,349
Industrial engineering	7,537	7,422	7,705	8,239	8,786	9,751	9,415	8,766
Mechanical engineering	10,927	10,890	11,004	11,374	11,864	13,220	13,898	13,230
Metallurgical/materials engineering	3,235	3,184	3,064	3,121	3,424	3,664	3,762	3,741
Mining engineering	233	197	214	264	224	252	261	298
Nuclear engineering	751	715	716	672	691	686	773	872
Petroleum engineering	442	459	531	525	534	631	727	706
Engineering, nec	2,492	2,577	2,597	2,519	2,912	3,284	4,134	4,042
Health	48,767	48,663	50,206	50,040	50,301	53,787	58,113	59,438
Medical fields	9,202	9,714	10,127	10,006	10,444	11,317	11,997	11,948
Anesthesiology	285	325	303	352	405	426	537	565
Cardiology	10	10	34	26	25	16	9	0
Endocrinology	43	58	67	57	53	58	78	62
Gastroenterology	3	6	7	14	7	7	11	16
Hematology	3	1	5	6	6	7	13	23
Neurology	819	889	999	1,073	1,173	1,430	1,540	1,419
Obstetrics/gynecology	5	8	13	8	20	13	13	3
Oncology/cancer research	123	139	145	143	146	123	116	137
Ophthalmology	30	31	49	58	46	178	399	404
Otorhinolaryngology	2	0	3	6	4	8	9	12
Pediatrics	241	226	243	257	287	362	361	355
Preventive medicine/community health	6,599	7,073	7,241	6,835	6,944	7,211	7,348	7,212
Psychiatry	101	64	58	78	189	215	171	302
Pulmonary disease	0	0	1	1	1	5	14	6
Radiology	163	148	135	126	153	175	181	185
Surgery	168	118	118	139	122	78	75	68
Clinical medicine, nec	607	618	706	827	863	1,005	1,122	1,179
Other health	39,565	38,949	40,079	40,034	39,857	42,470	46,116	47,490
Dental sciences	1,170	1,204	1,199	1,213	1,239	1,205	1,365	1,361
Nursing	17,957	16,797	16,859	15,989	15,952	16,829	18,076	19,624
Pharmaceutical sciences	2,163	2,202	2,672	2,949	2,972	3,707	4,517	3,966
Speech pathology/audiology	7,797	7,698	7,990	8,187	7,892	7,692	7,930	7,859
Veterinary sciences	1,172	1,235	1,267	1,322	1,430	1,638	1,667	1,674
Health related, nec	9,306	9,813	10,092	10,374	10,372	11,399	12,561	13,006

nec = not elsewhere classified.

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