

TABLE 16. Graduate students in science, engineering, and health in doctorate-granting institutions, by detailed field: 2004–10

Field	2004	2005	2006	2007old ^a	2007new ^a	2008	2009	2010
All surveyed fields	518,641	527,048	542,073	551,832	561,352	574,241	573,883	575,785
Science and engineering	432,748	436,320	445,037	457,931	469,517	482,711	497,223	508,114
Science	316,260	321,920	328,413	334,662	345,094	351,988	360,501	366,312
Agricultural sciences	12,573	12,271	12,133	12,285	12,548	13,099	14,110	14,561
Biological sciences	62,834	64,540	65,861	67,267	67,507	68,199	68,580	69,522
Anatomy	897	938	961	979	867	764	833	849
Biochemistry	5,520	5,720	5,713	5,867	5,761	5,365	5,158	5,190
Biology	13,031	13,115	13,789	13,548	13,220	13,888	14,005	14,103
Biometry/epidemiology	4,674	4,805	4,789	5,483	5,694	5,956	5,682	6,346
Biophysics	1,180	1,183	1,203	1,214	1,193	1,084	1,042	1,072
Botany	1,830	1,859	1,848	1,888	1,818	1,801	1,830	1,863
Cell biology	5,697	6,030	6,388	6,547	6,690	6,948	6,970	6,835
Ecology	2,022	2,019	2,019	2,015	1,896	1,896	1,634	1,713
Entomology/parasitology	1,241	1,126	1,114	1,078	1,078	1,079	1,079	1,116
Genetics	2,077	2,095	2,096	2,096	2,064	2,072	2,242	2,333
Microbiology/immunology/virology	5,357	5,377	5,307	5,279	5,177	5,035	4,931	4,859
Nutrition	4,377	4,416	4,659	4,665	4,305	4,638	4,754	4,867
Pathology	1,557	1,593	1,612	1,633	1,580	1,618	1,450	1,314
Pharmacology	3,122	3,114	2,985	3,030	3,013	3,005	3,163	3,101
Physiology	2,240	2,221	2,238	2,242	2,574	2,687	2,776	2,847
Zoology	1,234	1,261	1,143	1,081	1,105	923	873	894
Biological sciences, nec	6,778	7,668	7,997	8,622	9,472	9,440	10,158	10,220
Communication ^a	ne	ne	ne	ne	6,026	7,030	7,951	8,219
Computer sciences	44,462	43,080	43,032	44,066	43,555	44,171	45,593	45,860
Earth, atmospheric, and ocean sciences	14,149	13,981	14,032	13,812	13,359	13,663	13,942	14,756
Atmospheric sciences	1,077	1,139	1,071	1,110	1,171	1,394	1,348	1,443
Geosciences	6,944	6,904	6,856	6,781	6,719	6,766	7,141	7,800
Oceanography	2,705	2,659	2,674	2,559	2,511	2,532	2,527	2,455
Earth/atmospheric/ocean sciences, nec	3,423	3,279	3,431	3,362	2,958	2,971	2,926	3,058
Family and consumer sciences/human sciences ^a	ne	ne	ne	ne	2,491	3,007	3,084	3,491
Mathematical sciences	18,254	18,570	19,037	19,540	19,180	19,722	20,527	21,330
Mathematics/applied mathematics	14,383	14,572	15,004	15,207	14,841	14,894	15,679	16,029
Statistics	3,871	3,998	4,033	4,333	4,339	4,828	4,848	5,301
Multidisciplinary/interdisciplinary studies ^a	ne	ne	ne	ne	3,693	4,686	5,511	6,742
Neuroscience ^a	na	na	na	na	1,561	1,980	2,316	2,798
Physical sciences	34,866	35,435	35,928	36,036	35,768	36,320	37,098	37,871
Astronomy	1,119	1,191	1,211	1,233	1,232	1,275	1,409	1,331
Chemistry	20,219	20,483	20,716	20,695	20,569	20,884	21,374	21,673
Physics	13,082	13,274	13,509	13,589	13,575	13,636	13,834	14,294
Physical sciences, nec	446	487	492	519	392	525	481	573
Psychology ^b	43,704	46,289	47,217	48,773	48,106	48,427	46,564	45,246
Clinical psychology	12,220	12,773	12,501	12,962	13,036	12,205	12,239	11,250
Psychology, general	11,640	12,126	12,133	13,281	13,013	13,133	11,841	11,248
Psychology, nec	19,844	21,390	22,583	22,530	22,057	23,089	22,484	22,748
Social sciences	85,418	87,754	91,173	92,883	91,300	91,684	95,225	95,916
Agricultural economics	2,195	2,121	2,151	2,120	1,983	2,126	2,215	2,171
Anthropology (cultural/social)	7,413	7,387	7,726	7,652	7,682	7,845	7,872	8,013
Economics (except agricultural)	11,649	11,160	11,438	11,659	11,928	12,275	13,200	13,450
Geography	4,295	4,259	4,228	4,089	4,089	4,148	4,196	4,401
History and philosophy of science	624	716	742	910	845	998	851	552
Linguistics	2,673	2,919	2,821	2,801	2,604	2,824	2,882	2,863
Political science	33,097	34,701	36,118	36,296	35,806	35,342	37,744	38,578

TABLE 16. Graduate students in science, engineering, and health in doctorate-granting institutions, by detailed field: 2004–10

Field	2004	2005	2006	2007old ^a	2007new ^a	2008	2009	2010
Sociology	7,914	8,135	8,214	8,239	8,148	8,531	8,528	8,695
Sociology/anthropology	811	825	818	808	659	626	553	305
Social sciences, nec	14,747	15,531	16,917	18,309	17,556	16,969	17,184	16,888
Engineering	116,488	114,400	116,624	123,269	124,423	130,723	136,722	141,802
Aerospace engineering	3,997	4,055	4,357	4,480	4,480	4,761	5,096	5,474
Agricultural engineering	1,041	1,059	1,073	1,126	1,126	1,233	1,303	1,457
Architecture ^a	na	na	na	na	4,483	5,760	6,661	6,647
Biomedical engineering	5,749	6,015	6,430	6,848	6,871	7,334	7,879	8,439
Chemical engineering	7,334	7,054	7,151	7,291	7,492	7,794	8,077	8,573
Civil engineering ^a	17,881	17,455	17,158	19,189	15,461	16,169	17,708	18,499
Electrical engineering	36,132	35,248	35,948	37,708	37,887	38,248	38,070	38,609
Engineering science	2,134	1,910	1,967	1,824	1,772	1,932	2,004	2,020
Industrial engineering	12,951	12,760	12,959	13,333	13,504	14,758	14,626	13,936
Mechanical engineering	17,128	16,681	17,156	17,834	17,815	18,723	20,201	21,519
Metallurgical/materials engineering	4,998	5,115	5,223	5,310	5,259	5,486	5,822	6,216
Mining engineering	298	265	238	296	211	283	302	408
Nuclear engineering	971	1,013	1,099	1,208	1,180	1,201	1,243	1,459
Petroleum engineering	843	806	808	1,006	1,006	1,000	1,184	1,289
Engineering, nec	5,031	4,964	5,057	5,816	5,876	6,041	6,546	7,257
Health ^b	85,893	90,728	97,036	93,901	91,835	91,530	76,660	67,671
Clinical medicine	19,863	20,403	22,425	23,573	21,686	22,803	22,670	24,068
Anesthesiology	1,027	1,042	1,042	589	589	294	163	66
Cardiology	39	33	32	26	26	45	45	48
Endocrinology	63	56	42	40	40	64	50	53
Gastroenterology	16	7	18	28	28	15	15	7
Hematology	30	13	14	9	9	8	11	6
Neurology ^a	2,642	2,763	2,959	3,358	1,751	1,462	1,323	1,056
Obstetrics/gynecology	17	21	54	81	81	83	89	79
Oncology/cancer research	274	331	341	355	264	260	272	232
Ophthalmology	423	394	414	407	379	1	1	5
Otorhinolaryngology	12	12	14	15	15	14	4	4
Pediatrics	424	278	284	302	302	207	186	211
Preventive medicine/community health	11,946	12,131	13,821	14,945	15,517	17,105	17,586	19,076
Psychiatry	348	250	274	278	218	188	233	260
Pulmonary disease	7	27	10	24	24	13	13	12
Radiology	211	215	225	270	281	320	385	396
Surgery	75	88	105	47	31	31	40	59
Clinical medicine, nec	2,309	2,742	2,776	2,799	2,131	2,693	2,254	2,498
Other health ^b	66,030	70,325	74,611	70,328	70,149	68,727	53,990	43,603
Dental sciences	1,946	1,748	1,614	1,537	1,688	1,643	1,770	1,661
Nursing	25,081	26,699	29,760	27,901	27,901	26,779	18,706	10,415
Pharmaceutical sciences	5,218	6,088	6,311	4,959	5,061	4,245	4,435	4,280

TABLE 16. Graduate students in science, engineering, and health in doctorate-granting institutions, by detailed field: 2004–10

Field	2004	2005	2006	2007old ^a	2007new ^a	2008	2009	2010
Speech pathology/audiology	11,010	11,851	11,892	12,820	12,812	12,769	11,377	11,305
Veterinary sciences	1,732	1,970	2,067	2,020	2,371	2,478	2,170	2,211
Other health, nec	21,043	21,969	22,967	21,091	20,316	20,813	15,532	13,731

na = not applicable; data were not collected at this level of detail. ne = not eligible; data were not collected for this field prior to 2007.

nec = not elsewhere classified.

^a In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. Science fields "communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. Science field "multidisciplinary/interdisciplinary studies" is also newly eligible; data may have been reported under other fields before 2007. "Neuroscience" is reported as separate field of science in 2007new; data were reported under health field "neurology" in 2007old and previous years. "Architecture" is reported as separate field of engineering in 2007new; data were reported under "civil engineering" in 2007old and previous years. See appendix A in <http://www.nsf.gov/statistics/nsf10307/> for more detail.

^b Beginning with 2008, more rigorous follow-up was done with institutions regarding exclusion of practitioner-oriented graduate degree programs in psychology and in other health (a subfield of health). This change may affect interpretation of trends in these fields.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.