

TABLE 17. Graduate students in science, engineering, and health in public doctorate-granting institutions, by detailed field: 2004–10

Field	2004	2005	2006	2007old ^a	2007new ^a	2008	2009	2010
All surveyed fields	363,543	366,019	372,074	379,576	387,725	396,733	399,013	402,741
Science and engineering	302,992	303,409	306,122	314,948	324,148	333,478	345,236	353,439
Science	216,561	219,780	222,064	225,512	233,884	238,463	245,153	250,472
Agricultural sciences	11,988	11,689	11,561	11,721	12,016	12,521	13,224	13,793
Biological sciences	43,632	45,094	45,934	46,790	46,594	46,699	46,533	47,208
Anatomy	611	646	607	638	510	456	528	519
Biochemistry	3,821	4,012	3,982	4,130	4,075	3,659	3,634	3,660
Biology	9,338	9,524	10,027	9,669	9,464	10,001	10,008	9,976
Biometry/epidemiology	2,724	2,782	2,881	3,105	3,260	3,357	3,134	3,684
Biophysics	732	739	772	766	745	676	641	645
Botany	1,759	1,787	1,773	1,812	1,742	1,726	1,753	1,789
Cell biology	3,640	3,903	4,149	4,285	4,396	4,581	4,522	4,437
Ecology	1,841	1,806	1,810	1,789	1,645	1,649	1,383	1,444
Entomology/parasitology	1,197	1,094	1,079	1,043	1,043	1,047	1,047	1,084
Genetics	1,231	1,285	1,286	1,285	1,228	1,233	1,247	1,343
Microbiology/immunology/virology	3,389	3,405	3,336	3,309	3,273	3,195	3,140	3,056
Nutrition	3,367	3,527	3,653	3,817	3,457	3,579	3,603	3,652
Pathology	998	958	1,006	955	867	859	824	830
Pharmacology	2,025	2,104	1,923	1,978	2,010	1,982	2,058	1,965
Physiology	1,274	1,272	1,358	1,396	1,691	1,774	1,854	1,942
Zoology	1,204	1,254	1,138	1,078	1,102	919	869	889
Biological sciences, nec	4,481	4,996	5,154	5,735	6,086	6,006	6,288	6,293
Communication ^a	ne	ne	ne	ne	5,094	5,675	6,319	6,359
Computer sciences	27,826	27,166	26,903	27,407	27,026	27,698	29,133	29,838
Earth, atmospheric, and ocean sciences	11,823	11,641	11,656	11,509	11,051	11,218	11,489	12,239
Atmospheric sciences	1,033	1,082	1,039	1,059	1,120	1,328	1,287	1,378
Geosciences	5,717	5,689	5,627	5,648	5,586	5,580	5,960	6,523
Oceanography	2,276	2,181	2,196	2,104	2,056	2,028	2,033	1,914
Earth/atmospheric/ocean sciences, nec	2,797	2,689	2,794	2,698	2,289	2,282	2,209	2,424
Family and consumer sciences/human sciences ^a	ne	ne	ne	ne	2,291	2,645	2,675	3,138
Mathematical sciences	14,144	14,422	14,594	15,006	14,883	15,288	15,957	16,523
Mathematics/applied mathematics	11,064	11,300	11,457	11,632	11,521	11,553	12,275	12,516
Statistics	3,080	3,122	3,137	3,374	3,362	3,735	3,682	4,007
Multidisciplinary/interdisciplinary studies ^a	ne	ne	ne	ne	2,944	3,586	4,115	5,045
Neuroscience ^a	na	na	na	na	1,007	1,168	1,308	1,673
Physical sciences	25,685	26,341	26,520	26,502	26,234	26,566	27,342	27,770
Astronomy	663	690	679	698	697	704	821	707
Chemistry	14,928	15,309	15,394	15,263	15,137	15,373	15,872	16,025
Physics	9,655	9,862	9,963	10,030	10,016	10,085	10,295	10,661
Physical sciences, nec	439	480	484	511	384	404	354	377
Psychology ^b	21,844	22,244	22,204	23,759	23,220	23,681	22,917	22,228
Clinical psychology	3,104	2,972	3,006	3,075	3,084	3,001	3,174	3,284
Psychology, general	7,924	8,483	8,752	8,671	8,608	8,909	8,185	7,476
Psychology, nec	10,816	10,789	10,446	12,013	11,528	11,771	11,558	11,468
Social sciences	59,619	61,183	62,692	62,818	61,524	61,718	64,141	64,658
Agricultural economics	2,110	2,049	2,081	2,047	1,910	2,045	2,130	2,083
Anthropology (cultural/social)	5,546	5,497	5,800	5,711	5,741	5,848	5,913	6,039
Economics (except agricultural)	8,008	7,689	7,834	7,814	7,956	8,132	8,783	8,900
Geography	3,999	3,986	3,921	3,771	3,771	3,807	3,848	4,022
History and philosophy of science	406	477	515	677	663	733	706	407
Linguistics	2,027	2,061	2,203	2,159	2,079	2,207	2,260	2,214
Political science	20,099	20,618	20,686	20,963	20,663	20,444	21,582	22,370
Sociology	5,958	6,121	6,186	6,239	6,213	6,643	6,559	6,726

TABLE 17. Graduate students in science, engineering, and health in public doctorate-granting institutions, by detailed field: 2004–10

Field	2004	2005	2006	2007old ^a	2007new ^a	2008	2009	2010
Sociology/anthropology	676	687	711	728	579	542	467	231
Social sciences, nec	10,790	11,998	12,755	12,709	11,949	11,317	11,893	11,666
Engineering	86,431	83,629	84,058	89,436	90,264	95,015	100,083	102,967
Aerospace engineering	2,935	2,964	3,154	3,275	3,275	3,533	3,929	4,163
Agricultural engineering	979	999	1,011	1,059	1,059	1,173	1,230	1,277
Architecture ^a	na	na	na	na	3,610	4,597	5,362	5,389
Biomedical engineering	3,688	3,793	3,984	4,308	4,308	4,783	4,873	5,152
Chemical engineering	5,352	5,072	5,052	5,104	5,248	5,458	5,717	5,914
Civil engineering ^a	14,487	14,136	13,783	15,204	12,349	12,974	14,233	14,820
Electrical engineering	26,032	24,978	25,047	26,639	26,833	27,218	27,594	27,495
Engineering science	1,349	1,078	1,088	1,115	1,059	1,255	1,361	1,297
Industrial engineering	8,766	8,163	8,270	9,023	8,714	9,491	9,137	8,547
Mechanical engineering	13,168	12,536	12,686	12,814	12,795	13,321	14,502	15,632
Metallurgical/materials engineering	3,741	3,947	4,010	4,078	4,027	4,144	4,389	4,680
Mining engineering	298	265	238	296	211	283	302	408
Nuclear engineering	872	913	992	1,086	1,058	1,065	1,110	1,315
Petroleum engineering	706	690	696	887	887	854	1,009	1,105
Engineering, nec	4,058	4,095	4,047	4,548	4,831	4,866	5,335	5,773
Health ^b	60,551	62,610	65,952	64,628	63,577	63,255	53,777	49,302
Clinical medicine	11,906	12,207	12,447	14,240	13,275	14,232	14,385	15,472
Anesthesiology	565	544	547	388	388	157	104	11
Cardiology	0	0	3	0	0	25	24	29
Endocrinology	62	56	42	40	40	44	50	52
Gastroenterology	16	7	18	19	19	7	13	2
Hematology	23	13	14	8	8	5	8	5
Neurology ^a	1,419	1,477	1,548	1,856	814	671	637	454
Obstetrics/gynecology	3	10	16	14	14	5	8	11
Oncology/cancer research	137	186	179	202	171	124	149	127
Ophthalmology	404	392	406	407	379	1	1	5
Otorhinolaryngology	12	12	12	12	12	14	4	1
Pediatrics	355	211	211	231	231	147	114	119
Preventive medicine/community health	7,170	7,367	7,531	8,738	9,115	10,389	10,872	12,078
Psychiatry	302	197	236	233	173	133	165	177
Pulmonary disease	6	26	9	10	10	12	13	12
Radiology	185	192	198	253	264	273	306	284
Surgery	68	81	99	40	24	18	28	48
Clinical medicine, nec	1,179	1,436	1,378	1,789	1,613	2,207	1,889	2,057
Other health ^b	48,645	50,403	53,505	50,388	50,302	49,023	39,392	33,830
Dental sciences	1,629	1,447	1,311	1,190	1,298	1,333	1,303	1,216
Nursing	20,165	20,405	22,280	20,303	20,303	18,975	11,690	7,540
Pharmaceutical sciences	3,964	4,302	4,257	3,493	3,589	3,211	3,483	3,435
Speech pathology/audiology	8,028	8,621	8,769	9,601	9,593	9,543	9,624	9,470
Veterinary sciences	1,674	1,858	1,951	1,872	2,124	2,244	1,981	1,997
Other health, nec	13,185	13,770	14,937	13,929	13,395	13,717	11,311	10,172

na = not applicable; data were not collected at this level of detail. nec = 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.