

TABLE 22. Female graduate students in science, engineering, and health in all institutions, by detailed field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

Field	U.S. citizens and permanent residents									
	Total	Not Hispanic or Latino							Unknown ethnicity/race	Temporary visa holders
		Hispanic or Latino	American Indian or Alaska Native	Asian ^a	Black or African American	Native Hawaiian or Other Pacific Islander ^a	More than one race ^a			
							White	Other		
All surveyed fields	297,171	18,364	1,647	18,014	24,844	754	149,137	3,197	19,278	61,936
Science and engineering	240,481	14,813	1,351	14,386	19,160	554	114,557	2,578	15,596	57,486
Science	206,028	13,352	1,266	11,648	17,860	507	103,553	2,332	14,013	41,497
Agricultural sciences	7,819	412	87	199	277	20	4,835	71	352	1,566
Biological sciences	42,571	2,447	213	3,546	2,474	129	21,473	395	2,364	9,530
Anatomy	432	27	1	39	16	6	255	2	12	74
Biochemistry	2,655	153	16	250	120	10	1,051	19	128	908
Biology	9,582	618	42	604	572	19	4,918	130	670	2,009
Biometry/epidemiology	3,747	190	17	403	360	13	1,650	35	233	846
Biophysics	376	9	4	45	13	2	149	1	16	137
Botany	979	38	9	49	13	8	442	12	26	382
Cell biology	3,823	224	25	392	159	20	1,672	28	198	1,105
Ecology	1,009	44	5	33	14	2	732	9	77	93
Entomology/parasitology	550	26	2	18	7	0	355	9	14	119
Genetics	1,373	49	6	100	47	5	779	6	57	324
Microbiology/immunology/virology	2,849	183	18	260	158	2	1,515	23	125	565
Nutrition	4,479	247	16	315	215	7	2,711	34	242	692
Pathology	835	46	4	69	68	3	450	5	37	153
Pharmacology	1,755	87	6	163	153	5	779	9	88	465
Physiology	1,466	67	6	142	88	10	747	7	62	337
Zoology	508	11	2	18	7	2	366	11	22	69
Biological sciences, nec	6,153	428	34	646	464	15	2,902	55	357	1,252
Communication ^b	6,353	367	45	221	541	12	3,662	81	378	1,046
Computer sciences	12,807	334	31	980	822	13	3,133	81	654	6,759
Earth, atmospheric, and ocean sciences	7,200	336	46	215	158	13	4,731	83	433	1,185
Atmospheric sciences	484	24	0	18	15	1	258	2	25	141
Geosciences	3,493	156	32	83	57	8	2,292	39	222	604
Oceanography	1,423	73	7	33	18	1	1,006	19	63	203
Earth/atmospheric/ocean sciences, nec	1,800	83	7	81	68	3	1,175	23	123	237
Family and consumer sciences/human sciences ^b	3,461	166	20	123	511	1	2,099	29	208	304
Mathematical sciences	8,127	277	19	617	319	16	3,125	97	467	3,190
Mathematics/applied mathematics	5,768	235	17	388	255	15	2,594	92	327	1,845
Statistics	2,359	42	2	229	64	1	531	5	140	1,345
Multidisciplinary/interdisciplinary studies ^b	4,493	390	29	200	381	8	2,329	51	489	616

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Neuroscience ^b	1,474	97	4	128	51	2	857	7	79	249	
Physical sciences	12,826	506	37	738	514	16	5,267	98	545	5,105	
Astronomy	423	11	3	24	3	1	242	6	25	108	
Chemistry	9,261	419	24	575	454	11	3,747	68	375	3,588	
Physics	2,899	69	6	127	50	3	1,141	22	137	1,344	
Physical sciences, nec	243	7	4	12	7	1	137	2	8	65	
Psychology ^c	40,238	3,720	266	1,868	4,478	92	23,716	506	3,312	2,280	
Clinical psychology	9,455	1,245	64	520	757	28	5,447	106	970	318	
Psychology, general	9,992	730	67	518	1,026	26	6,066	138	708	713	
Psychology, nec	20,791	1,745	135	830	2,695	38	12,203	262	1,634	1,249	
Social sciences	58,659	4,300	469	2,813	7,334	185	28,326	833	4,732	9,667	
Agricultural economics	927	25	1	33	19	3	356	9	24	457	
Anthropology (cultural/social)	5,490	357	78	194	189	19	3,465	108	494	586	
Economics (except agricultural)	5,214	150	8	288	155	3	1,327	38	194	3,051	
Geography	2,172	74	13	89	71	4	1,396	27	142	356	
History and philosophy of science	316	12	1	10	23	1	213	3	14	39	
Linguistics	1,888	91	19	126	39	4	819	27	139	624	
Political science	23,970	1,880	153	1,243	3,834	87	11,344	327	2,354	2,748	
Sociology	6,326	569	33	293	841	17	3,355	99	394	725	
Sociology/anthropology	218	16	1	3	45	0	125	1	16	11	
Social sciences, nec	12,138	1,126	162	534	2,118	47	5,926	194	961	1,070	
Engineering	34,453	1,461	85	2,738	1,300	47	11,004	246	1,583	15,989	
Aerospace engineering	784	36	4	56	17	2	375	12	49	233	
Agricultural engineering	509	10	3	16	16	0	145	4	12	303	
Architecture ^b	3,044	182	15	206	121	3	1,641	43	185	648	
Biomedical engineering	3,133	120	7	437	129	5	1,227	28	149	1,031	
Chemical engineering	2,722	104	2	219	65	4	753	10	73	1,492	
Civil engineering ^b	5,571	370	22	404	206	14	2,235	59	244	2,017	
Electrical engineering	7,193	151	4	548	174	6	851	21	252	5,186	
Engineering science	438	12	0	31	9	0	132	2	23	229	
Industrial engineering	3,684	190	8	253	231	3	1,033	16	295	1,655	
Mechanical engineering	3,186	132	7	251	109	5	1,160	25	144	1,353	
Metallurgical/materials engineering	1,754	55	5	143	57	0	570	11	39	874	
Mining engineering	77	2	0	0	4	0	30	1	2	38	
Nuclear engineering	228	13	0	16	9	1	126	3	13	47	
Petroleum engineering	235	7	0	4	6	0	31	1	1	185	
Engineering, nec	1,895	77	8	154	147	4	695	10	102	698	

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Health	56,690	3,551	296	3,628	5,684	200	34,580	619	3,682	4,450
Clinical medicine	17,857	1,320	105	1,593	2,926	75	8,756	240	1,271	1,571
Anesthesiology	193	6	0	7	5	0	156	2	17	0
Cardiology	22	0	0	1	4	0	9	0	0	8
Endocrinology	31	1	0	1	5	1	15	0	3	5
Gastroenterology	3	0	0	0	1	0	2	0	0	0
Hematology	3	0	0	0	0	0	3	0	0	0
Neurology ^b	552	22	2	51	21	6	305	4	41	100
Obstetrics/gynecology	61	8	0	7	2	0	32	1	3	8
Oncology/cancer research	136	6	0	11	9	0	74	1	9	26
Ophthalmology	1	0	0	0	0	0	1	0	0	0
Otorhinolaryngology	2	0	0	1	0	0	0	0	0	1
Pediatrics	161	8	2	16	3	0	102	3	8	19
Preventive medicine/community health	14,865	1,098	88	1,320	2,658	67	7,070	208	1,100	1,256
Psychiatry	207	62	0	10	40	0	84	0	5	6
Pulmonary disease	8	0	1	1	0	0	5	0	1	0
Radiology	124	6	1	12	3	0	63	0	10	29
Surgery	29	1	0	0	1	0	15	10	1	1
Clinical medicine, nec	1,459	102	11	155	174	1	820	11	73	112
Other health ^c	38,833	2,231	191	2,035	2,758	125	25,824	379	2,411	2,879
Dental sciences	744	45	2	102	21	4	299	3	33	235
Nursing	10,932	614	81	653	1,076	36	7,176	141	833	322
Pharmaceutical sciences	2,227	81	11	205	155	2	723	5	64	981
Speech pathology/audiology	13,531	791	43	428	537	28	10,426	119	800	359
Veterinary sciences	1,415	39	7	60	58	4	855	12	79	301
Other health, nec	9,984	661	47	587	911	51	6,345	99	602	681

nec = not elsewhere classified.

^a Reporting of ethnicity and race in 2008–10 has been affected by changes in reporting of ethnicity and race in Integrated Postsecondary Education Data System (IPEDS). Starting in 2008 IPEDS respondents were asked to use new classification that included category for two or more races (see <http://nces.ed.gov/ipeds/reic/resource.asp>) and separate reporting of Native Hawaiians and Other Pacific Islanders from Asians. New classification was optional in 2008 and 2009 IPEDS but mandatory in 2010 and may have contributed to significant increase in reporting of "Not Hispanic or Latino, More than one race."

^b 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.

^c 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, 2010.