

TABLE 38. Postdoctoral appointees in science, engineering, and health in all institutions, by detailed field, sex, and citizenship: 2011

Field	Postdoctoral appointees	Sex		Citizenship	
		Male	Female	U.S. citizens and permanent residents	Temporary visa holders
All surveyed fields	62,947	38,628	24,319	30,239	32,708
Science and engineering	44,249	28,650	15,599	20,684	23,565
Science	37,485	23,323	14,162	17,955	19,530
Agricultural sciences	1,257	800	457	655	602
Biological sciences	21,342	12,026	9,316	10,031	11,311
Anatomy	392	214	178	200	192
Biochemistry	2,312	1,428	884	1,006	1,306
Biology	2,408	1,372	1,036	1,236	1,172
Biometry/epidemiology	521	300	221	273	248
Biophysics	198	133	65	76	122
Botany	559	337	222	268	291
Cell biology	2,678	1,566	1,112	1,182	1,496
Ecology	200	119	81	136	64
Entomology/parasitology	261	142	119	137	124
Genetics	1,460	839	621	713	747
Microbiology/immunology/virology	2,551	1,339	1,212	1,216	1,335
Nutrition	244	98	146	135	109
Pathology	1,747	932	815	774	973
Pharmacology	1,628	907	721	728	900
Physiology	1,534	841	693	719	815
Zoology	85	55	30	67	18
Biological sciences, nec	2,564	1,404	1,160	1,165	1,399
Communication <sup>a</sup>	65	42	23	37	28
Computer sciences	769	627	142	339	430
Earth, atmospheric, and ocean sciences	1,771	1,123	648	985	786
Atmospheric sciences	161	109	52	76	85
Geosciences	583	382	201	262	321
Oceanography	408	218	190	259	149
Earth/atmospheric/ocean sciences, nec	619	414	205	388	231
Family and consumer sciences/human sciences <sup>a</sup>	54	11	43	43	11
Mathematical sciences	805	628	177	396	409
Mathematics/applied mathematics	706	550	156	357	349
Statistics	99	78	21	39	60
Multidisciplinary/interdisciplinary studies <sup>a</sup>	697	452	245	386	311
Neuroscience <sup>a</sup>	1,362	761	601	674	688
Physical sciences	7,511	5,969	1,542	3,123	4,388
Astronomy	529	381	148	277	252
Chemistry	4,018	3,132	886	1,541	2,477
Physics	2,704	2,248	456	1,166	1,538
Physical sciences, nec	260	208	52	139	121
Psychology	1,079	481	598	752	327
Clinical psychology	93	25	68	83	10
Psychology, general	601	292	309	389	212
Psychology, nec	385	164	221	280	105
Social sciences	773	403	370	534	239
Agricultural economics	47	34	13	23	24
Anthropology (cultural/social)	81	37	44	61	20
Economics (except agricultural)	38	32	6	17	21
Geography	57	37	20	37	20

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History and philosophy of science	9	3	6	6	3
Linguistics	31	19	12	23	8
Political science	220	119	101	161	59
Sociology	91	33	58	74	17
Sociology/anthropology	2	1	1	2	0
Social sciences, nec	197	88	109	130	67
Engineering	6,764	5,327	1,437	2,729	4,035
Aerospace engineering	195	164	31	61	134
Agricultural engineering	129	90	39	52	77
Architecture <sup>a</sup>	17	9	8	8	9
Biomedical engineering	1,076	757	319	565	511
Chemical engineering	1,137	873	264	462	675
Civil engineering <sup>a</sup>	551	405	146	226	325
Electrical engineering	1,062	917	145	382	680
Engineering science	233	179	54	85	148
Industrial engineering	121	95	26	56	65
Mechanical engineering	896	766	130	341	555
Metallurgical/materials engineering	861	686	175	287	574
Mining engineering	4	4	0	2	2
Nuclear engineering	109	96	13	48	61
Petroleum engineering	35	29	6	10	25
Engineering, nec	338	257	81	144	194
Health	18,698	9,978	8,720	9,555	9,143
Clinical medicine	16,279	8,663	7,616	8,341	7,938
Anesthesiology	405	237	168	190	215
Cardiology	702	440	262	319	383
Endocrinology	416	201	215	183	233
Gastroenterology	341	201	140	164	177
Hematology	339	188	151	209	130
Neurology <sup>a</sup>	1,044	545	499	532	512
Obstetrics/gynecology	327	124	203	175	152
Oncology/cancer research	1,875	1,035	840	797	1,078
Ophthalmology	466	254	212	182	284
Otorhinolaryngology	160	83	77	66	94
Pediatrics	1,434	675	759	722	712
Preventive medicine/community health	658	300	358	435	223
Psychiatry	995	388	607	699	296
Pulmonary disease	301	165	136	205	96
Radiology	987	653	334	434	553
Surgery	1,259	787	472	587	672
Clinical medicine, nec	4,570	2,387	2,183	2,442	2,128
Other health	2,419	1,315	1,104	1,214	1,205
Dental sciences	377	205	172	159	218
Nursing	78	11	67	68	10
Pharmaceutical sciences	1,059	674	385	474	585

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Speech pathology/audiology	47	19	28	37	10
Veterinary sciences	444	209	235	273	171
Other health, nec	414	197	217	203	211

nec = not elsewhere classified.

<sup>a</sup> 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 a separate field of science in 2007new; data were reported under health field "neurology" in 2007old and previous years. "Architecture" is reported as a 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.

NOTES: In 2010, the postdoc section of the survey was expanded, and significant effort was made to ensure that appropriate personnel were providing postdoc data (see appendix A for more information). Thus, for increases in 2010 or 2011 over 2009 and prior-year data, it is unclear how much is from growth in postdoctoral appointment and how much is from improved data collection. More information on changes in postdoc data will be available in forthcoming InfoBrief at <http://www.nsf.gov/statistics/gradpostdoc/>. For graduate students, "field" refers to the field of the reporting unit in which the student is enrolled. For postdocs, "field" refers to the field of the unit that reports postdocs to the GSS.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering, 2011.