Table 8-1

S&E postdoctoral fellows in academic institutions, by field, citizenship, and sex: 2018

(Number)

Field	All citizenship categories			U.S. citizens and permanent residents			Temporary residents		
	All S&E postdoctoral fellows	Female	Male	All S&E postdoctoral fellows	Female	Male	All S&E postdoctoral fellows	Female	Male
All S&E postdoctoral fellows	45,478	16,683	28,795	20,103	8,512	11,591	25,375	8,171	17,204
Science	37,564	14,815	22,749	17,447	7,755	9,692	20,117	7,060	13,057
Agricultural sciences	1,072	447	625	480	234	246	592	213	379
Biological and biomedical sciences	21,533	9,536	11,997	9,768	4,707	5,061	11,765	4,829	6,936
Biochemistry	1,943	725	1,218	805	315	490	1,138	410	728
Biology	2,108	911	1,197	1,126	537	589	982	374	608
Biomedical sciences	1,941	913	1,028	629	304	325	1,312	609	703
Biophysics	151	48	103	48	14	34	103	34	69
Biostatistics and bioinformatics	699	252	447	297	112	185	402	140	262
Biotechnology	86	27	59	34	9	25	52	18	34
Botany and plant biology	620	244	376	337	135	202	283	109	174
Cell, cellular biology, and anatomical sciences	1,814	821	993	790	395	395	1,024	426	598
Ecology and population biology	446	202	244	295	151	144	151	51	100
Epidemiology	230	149	81	160	112	48	70	37	33
Genetics	1,428	653	775	651	323	328	777	330	447
Microbiological sciences and immunology	2,078	999	1,079	930	522	408	1,148	477	671
Molecular biology	521	208	313	216	97	119	305	111	194
Neurobiology and neuroscience	2,103	962	1,141	997	480	517	1,106	482	624
Nutrition science	180	99	81	89	52	37	91	47	44
Pathology and experimental pathology	1,145	518	627	491	228	263	654	290	364
Pharmacology and toxicology	1,012	420	592	437	192	245	575	228	347
Physiology	1,766	833	933	764	394	370	1,002	439	563
Zoology and animal biology	428	190	238	262	123	139	166	67	99
Biological and biomedical sciences nec	834	362	472	410	212	198	424	150	274
Computer and information sciences	879	181	698	337	88	249	542	93	449
Computer science	502	95	407	191	44	147	311	51	260
Computer and information sciences, general	225	43	182	75	19	56	150	24	126
Computer and information sciences nec	152	43	109	71	25	46	81	18	63
Geosciences, atmospheric sciences, and ocean sciences	1,726	653	1,073	899	391	508	827	262	565
Atmospheric sciences and meteorology	243	77	166	90	36	54	153	41	112
Geological and earth sciences	803	284	519	395	161	234	408	123	285
Ocean and marine sciences	401	176	225	249	125	124	152	51	101
Geosciences, atmospheric sciences, and ocean sciences nec	279	116	163	165	69	96	114	47	67

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Mathematics and statistics	982	229	753	455	102	353	527	127	400
Mathematics and applied mathematics	833	193	640	401	88	313	432	105	327
Statistics	149	36	113	54	14	40	95	22	73
Multidisciplinary and interdisciplinary studies	980	410	570	554	259	295	426	151	275
Natural resources and conservation	764	327	437	474	215	259	290	112	178
Environmental science and studies	258	119	139	162	81	81	96	38	58
Forestry, natural resources, and conservation	506	208	298	312	134	178	194	74	120
Physical sciences	6,976	1,565	5,411	2,646	676	1,970	4,330	889	3,441
Astronomy and astrophysics	536	162	374	279	98	181	257	64	193
Chemistry	3,320	831	2,489	1,239	350	889	2,081	481	1,600
Materials sciences	264	57	207	79	20	59	185	37	148
Physics	2,619	459	2,160	944	187	757	1,675	272	1,403
Physical sciences nec	237	56	181	105	21	84	132	35	97
Psychology	1,145	667	478	833	499	334	312	168	144
Clinical psychology	73	55	18	56	43	13	17	12	5
Counseling and applied psychology	165	105	60	135	85	50	30	20	10
Psychology, general	674	397	277	488	299	189	186	98	88
Research and experimental psychology	233	110	123	154	72	82	79	38	41
Social sciences	1,507	800	707	1,001	584	417	506	216	290
Agricultural economics	53	27	26	27	17	10	26	10	16
Anthropology	137	83	54	103	62	41	34	21	13
Criminal justice and safety studies	12	4	8	11	3	8	1	1	0
Economics (except agricultural)	108	32	76	50	17	33	58	15	43
Geography and cartography	120	53	67	60	28	32	60	25	35
History and philosophy of science	12	5	7	11	4	7	1	1	0
Human development	135	99	36	106	85	21	29	14	15
International relations and national security studies	51	22	29	31	16	15	20	6	14
Linguistics	39	20	19	26	15	11	13	5	8
Political science and government	137	57	80	90	39	51	47	18	29
Public policy analysis	191	110	81	120	78	42	71	32	39
Sociology	149	83	66	113	66	47	36	17	19
Social sciences nec	363	205	158	253	154	99	110	51	59
Engineering	7,914	1,868	6,046	2,656	757	1,899	5,258	1,111	4,147
Aerospace, aeronautical, and astronautical engineering	207	24	183	65	9	56	142	15	127
Agricultural engineering	113	39	74	36	13	23	77	26	51

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Bioengineering and biomedical engineering	1,433	513	920	612	238	374	821	275	546
Biological and biosystems engineering	96	34	62	35	15	20	61	19	42
Chemical engineering	1,142	279	863	356	94	262	786	185	601
Civil engineering	739	198	541	272	98	174	467	100	367
Electrical, electronics, and communications engineering	1,197	181	1,016	330	59	271	867	122	745
Engineering mechanics, physics, and science	354	80	274	99	26	73	255	54	201
Industrial and manufacturing engineering	156	39	117	41	11	30	115	28	87
Mechanical engineering	1,069	172	897	352	73	279	717	99	618
Metallurgical and materials engineering	549	104	445	156	33	123	393	71	322
Mining engineering	26	6	20	13	3	10	13	3	10
Nanotechnology	134	36	98	30	7	23	104	29	75
Nuclear engineering	106	14	92	31	5	26	75	9	66
Petroleum engineering	63	11	52	14	6	8	49	5	44
Engineering nec	530	138	392	214	67	147	316	71	245

nec = not elsewhere classified; S&E = science and engineering.

Source(s):
National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2018.