

TABLE G-2. S&E postdoctoral fellows, by field and sex: 1997–2004

Field and sex	1997	1998	1999	2000	2001	2002	2003	2004
All fields	Number							
S&E	27,264	27,876	28,980	30,224	30,194	31,904	33,456	32,886
Sciences	24,293	25,023	25,784	26,911	27,028	28,336	29,642	29,017
Agricultural sciences	724	695	750	822	835	945	1,052	941
Biological sciences	15,082	15,761	16,097	16,734	17,029	17,644	18,565	17,894
Anatomy	464	454	497	428	413	423	464	470
Biochemistry	2,539	2,532	2,485	2,469	2,558	2,752	2,620	2,426
Biology	1,599	1,813	1,892	1,937	1,962	2,047	2,080	1,956
Biometry/epidemiology	180	175	181	125	152	231	244	238
Biophysics	240	239	266	164	187	233	195	218
Botany	574	555	559	518	553	561	547	532
Cell/molecular biology	1,897	2,204	2,237	2,241	2,139	2,292	2,340	2,298
Ecology	133	115	123	152	161	186	189	170
Entomology/parasitology	216	181	178	197	223	234	258	290
Genetics	737	732	796	795	883	926	1,037	941
Microbiology, immunology, and virology	1,990	2,089	2,158	2,253	2,187	2,434	2,319	2,066
Nutrition	209	234	238	224	245	225	243	274
Pathology	1,377	1,332	1,321	1,757	1,803	1,837	1,943	1,774
Pharmacology	1,369	1,470	1,512	1,461	1,392	1,386	1,517	1,528
Physiology	1,118	1,138	1,132	1,140	1,193	1,165	1,232	1,194
Zoology	103	135	138	104	88	92	82	111
Other	337	363	384	769	890	620	1,255	1,408
Computer sciences	322	374	334	344	338	361	360	384
Earth, atmospheric, and ocean sciences	942	902	925	1,155	1,036	1,114	1,166	1,252
Atmospheric	98	85	107	94	87	79	94	119
Earth	494	468	479	514	471	444	463	506
Ocean	258	249	235	246	218	270	249	299
Other	92	100	104	301	260	321	360	328
Mathematics and statistics	308	279	351	385	353	393	447	466
Mathematics/applied mathematics	284	255	321	357	329	365	407	420
Statistics	24	24	30	28	24	28	40	46
Physical sciences	5,968	6,004	6,157	6,270	6,218	6,610	6,694	6,810
Astronomy	319	360	375	315	311	330	319	367
Chemistry	3,747	3,741	3,836	3,877	3,861	3,982	4,032	4,108
Physics	1,803	1,863	1,862	1,948	1,910	2,154	2,182	2,119
Other	99	40	84	130	136	144	161	216
Psychology	586	617	716	730	809	815	956	913
Clinical	45	51	70	73	81	68	72	86
General	361	393	412	411	498	532	630	599
Nonclinical	180	173	234	246	230	215	254	228
Social sciences	361	391	454	471	410	454	402	357
Agricultural economics	50	38	43	41	35	21	25	34
Anthropology (cultural and social)	59	62	87	73	56	66	57	56
Economics	19	29	31	32	23	29	36	20
Geography	12	18	30	34	36	30	29	29
History and philosophy of science	28	23	10	14	9	13	14	6
Linguistics	19	18	15	19	17	22	29	29
Political science and public administration	31	64	70	50	52	61	51	43
Sociology	102	79	104	102	88	80	74	57
Other	41	60	64	106	94	132	87	83
Engineering	2,971	2,853	3,196	3,313	3,166	3,568	3,814	3,869
Aerospace	125	133	128	111	128	140	141	141
Agricultural	58	56	62	56	58	64	80	71
Biomedical	158	180	242	220	264	286	390	424
Chemical	636	613	671	703	575	743	672	688
Civil	248	225	299	295	280	358	319	330
Electrical	508	488	548	525	435	612	646	641
Engineering science/physics	115	110	122	163	162	169	180	180
Industrial/manufacturing	28	30	27	48	20	42	45	50

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Field and sex	1997	1998	1999	2000	2001	2002	2003	2004
Mechanical	440	434	476	480	501	441	543	514
Metallurgical/materials	465	404	421	507	479	507	539	545
Mining	11	10	6	8	14	10	12	9
Nuclear	33	19	30	40	78	28	52	67
Petroleum	21	14	19	20	17	15	17	14
Other	125	137	145	137	155	153	178	195
Female								
S&E	7,894	8,326	8,708	8,928	9,242	10,119	10,734	10,444
Sciences	7,548	7,943	8,239	8,455	8,758	9,518	10,131	9,758
Agricultural sciences	200	189	205	239	252	312	363	322
Biological sciences	5,564	5,906	6,070	6,237	6,441	6,869	7,308	6,969
Anatomy	169	175	191	146	150	181	192	207
Biochemistry	876	891	888	865	909	1,018	987	894
Biology	569	670	693	717	708	778	795	679
Biometry/epidemiology	91	87	98	72	84	104	130	127
Biophysics	65	65	64	45	54	74	63	74
Botany	159	154	170	155	174	205	206	198
Cell/molecular biology	767	858	857	878	843	885	920	886
Ecology	43	37	37	47	54	65	66	57
Entomology/parasitology	53	48	47	53	57	60	67	85
Genetics	284	317	310	307	359	381	432	388
Microbiology, immunology, and virology	809	888	937	945	919	1,057	995	838
Nutrition	72	98	83	94	108	109	118	123
Pathology	540	510	502	653	674	735	750	679
Pharmacology	527	558	590	556	550	545	604	611
Physiology	383	368	405	413	443	411	454	473
Zoology	36	52	63	29	25	31	27	47
Other	121	130	135	262	330	230	502	603
Computer sciences	46	62	58	40	48	51	59	79
Earth, atmospheric, ocean sciences	221	228	219	292	284	327	348	364
Atmospheric	20	17	20	21	23	28	24	29
Earth	111	117	109	114	121	126	136	138
Ocean	75	77	70	81	78	96	85	110
Other	15	17	20	76	62	77	103	87
Mathematics and statistics	40	38	73	51	64	76	86	105
Mathematics/applied mathematics	38	34	66	44	57	66	75	93
Statistics	2	4	7	7	7	10	11	12
Physical sciences	1,046	1,052	1,045	1,044	1,083	1,236	1,284	1,301
Astronomy	51	70	58	49	55	66	70	69
Chemistry	760	780	778	773	809	884	916	908
Physics	206	195	199	208	199	266	276	292
Other	29	7	10	14	20	20	22	32
Psychology	287	316	373	357	413	426	482	461
Clinical	30	33	54	51	60	49	46	59
General	167	191	194	180	243	264	321	297
Nonclinical	90	92	125	126	110	113	115	105
Social sciences	144	152	196	195	173	221	201	157
Agricultural economics	11	6	10	11	9	4	6	7
Anthropology (cultural and social)	24	27	40	35	23	38	31	19
Economics	2	5	5	8	6	11	13	8
Geography	5	6	11	8	8	12	10	10
History and philosophy of science	10	7	5	6	3	5	4	3
Linguistics	11	12	9	7	10	12	13	12
Political science and public administration	11	23	22	15	14	17	20	24
Sociology	50	42	63	53	48	52	51	37
Other	20	24	31	52	52	70	53	37

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Field and sex	1997	1998	1999	2000	2001	2002	2003	2004
Engineering	346	383	469	473	484	601	603	686
Aerospace	11	8	15	10	14	17	15	16
Agricultural	4	6	8	7	6	10	13	11
Biomedical	35	39	64	66	73	81	109	128
Chemical	93	117	119	116	109	156	134	142
Civil	39	35	55	55	50	68	59	82
Electrical	39	49	67	51	48	55	77	85
Engineering science/physics	21	18	17	26	23	29	31	30
Industrial/manufacturing	1	2	5	8	3	14	9	12
Mechanical	26	30	34	38	43	46	39	58
Metallurgical/materials	62	65	69	76	79	86	69	88
Mining	0	0	0	1	1	0	1	0
Nuclear	3	2	2	3	5	1	7	10
Petroleum	1	2	0	1	2	1	2	1
Other	11	10	14	15	28	37	38	23
Male								
S&E	19,370	19,550	20,272	21,296	20,952	21,785	22,722	22,442
Sciences	16,745	17,080	17,545	18,456	18,270	18,818	19,511	19,259
Agricultural sciences	524	506	545	583	583	633	689	619
Biological sciences	9,518	9,855	10,027	10,497	10,588	10,775	11,257	10,925
Anatomy	295	279	306	282	263	242	272	263
Biochemistry	1,663	1,641	1,597	1,604	1,649	1,734	1,633	1,532
Biology	1,030	1,143	1,199	1,220	1,254	1,269	1,285	1,277
Biometry/epidemiology	89	88	83	53	68	127	114	111
Biophysics	175	174	202	119	133	159	132	144
Botany	415	401	389	363	379	356	341	334
Cell/molecular biology	1,130	1,346	1,380	1,363	1,296	1,407	1,420	1,412
Ecology	90	78	86	105	107	121	123	113
Entomology/parasitology	163	133	131	144	166	174	191	205
Genetics	453	415	486	488	524	545	605	553
Microbiology, immunology, and virology	1,181	1,201	1,221	1,308	1,268	1,377	1,324	1,228
Nutrition	137	136	155	130	137	116	125	151
Pathology	837	822	819	1,104	1,129	1,102	1,193	1,095
Pharmacology	842	912	922	905	842	841	913	917
Physiology	735	770	727	727	750	754	778	721
Zoology	67	83	75	75	63	61	55	64
Other	216	233	249	507	560	390	753	805
Computer sciences	276	312	276	304	290	310	301	305
Earth, atmospheric, and ocean sciences	721	674	706	863	752	787	818	888
Atmospheric	78	68	87	73	64	51	70	90
Earth	383	351	370	400	350	318	327	368
Ocean	183	172	165	165	140	174	164	189
Other	77	83	84	225	198	244	257	241
Mathematics and statistics	268	241	278	334	289	317	361	361
Mathematics/applied mathematics	246	221	255	313	272	299	332	327
Statistics	22	20	23	21	17	18	29	34
Physical sciences	4,922	4,952	5,112	5,226	5,135	5,374	5,410	5,509
Astronomy	268	290	317	266	256	264	249	298
Chemistry	2,987	2,961	3,058	3,104	3,052	3,098	3,116	3,200
Physics	1,597	1,668	1,663	1,740	1,711	1,888	1,906	1,827
Other	70	33	74	116	116	124	139	184
Psychology	299	301	343	373	396	389	474	452
Clinical	15	18	16	22	21	19	26	27
General	194	202	218	231	255	268	309	302
Nonclinical	90	81	109	120	120	102	139	123
Social sciences	217	239	258	276	237	233	201	200
Agricultural economics	39	32	33	30	26	17	19	27
Anthropology (cultural and social)	35	35	47	38	33	28	26	37
Economics	17	24	26	24	17	18	23	12

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Field and sex	1997	1998	1999	2000	2001	2002	2003	2004
Geography	7	12	19	26	28	18	19	19
History and philosophy of science	18	16	5	8	6	8	10	3
Linguistics	8	6	6	12	7	10	16	17
Political science and public administration	20	41	48	35	38	44	31	19
Sociology	52	37	41	49	40	28	23	20
Other	21	36	33	54	42	62	34	46
Engineering	2,625	2,470	2,727	2,840	2,682	2,967	3,211	3,183
Aerospace	114	125	113	101	114	123	126	125
Agricultural	54	50	54	49	52	54	67	60
Biomedical	123	141	178	154	191	205	281	296
Chemical	543	496	552	587	466	587	538	546
Civil	209	190	244	240	230	290	260	248
Electrical	469	439	481	474	387	557	569	556
Engineering science/physics	94	92	105	137	139	140	149	150
Industrial/manufacturing	27	28	22	40	17	28	36	38
Mechanical	414	404	442	442	458	395	504	456
Metallurgical/materials	403	339	352	431	400	421	470	457
Mining	11	10	6	7	13	10	11	9
Nuclear	30	17	28	37	73	27	45	57
Petroleum	20	12	19	19	15	14	15	13
Other	114	127	131	122	127	116	140	172
	Percent							
Female								
S&E	29.0	29.9	30.0	29.5	30.6	31.7	32.1	31.8
Sciences	31.1	31.7	32.0	31.4	32.4	33.6	34.2	33.6
Agricultural sciences	27.6	27.2	27.3	29.1	30.2	33.0	34.5	34.2
Biological sciences	36.9	37.5	37.7	37.3	37.8	38.9	39.4	38.9
Anatomy	36.4	38.5	38.4	34.1	36.3	42.8	41.4	44.0
Biochemistry	34.5	35.2	35.7	35.0	35.5	37.0	37.7	36.9
Biology	35.6	37.0	36.6	37.0	36.1	38.0	38.2	34.7
Biometry/epidemiology	50.6	49.7	54.1	57.6	55.3	45.0	53.3	53.4
Biophysics	27.1	27.2	24.1	27.4	28.9	31.8	32.3	33.9
Botany	27.7	27.7	30.4	29.9	31.5	36.5	37.7	37.2
Cell/molecular biology	40.4	38.9	38.3	39.2	39.4	38.6	39.3	38.6
Ecology	32.3	32.2	30.1	30.9	33.5	34.9	34.9	33.5
Entomology/parasitology	24.5	26.5	26.4	26.9	25.6	25.6	26.0	29.3
Genetics	38.5	43.3	38.9	38.6	40.7	41.1	41.7	41.2
Microbiology, immunology, and virology	40.7	42.5	43.4	41.9	42.0	43.4	42.9	40.6
Nutrition	34.4	41.9	34.9	42.0	44.1	48.4	48.6	44.9
Pathology	39.2	38.3	38.0	37.2	37.4	40.0	38.6	38.3
Pharmacology	38.5	38.0	39.0	38.1	39.5	39.3	39.8	40.0
Physiology	34.3	32.3	35.8	36.2	37.1	35.3	36.9	39.6
Zoology	35.0	38.5	45.7	27.9	28.4	33.7	32.9	42.3
Other	35.9	35.8	35.2	34.1	37.1	37.1	40.0	42.8
Computer sciences	14.3	16.6	17.4	11.6	14.2	14.1	16.4	20.6
Earth, atmospheric, and ocean sciences	23.5	25.3	23.7	25.3	27.4	29.4	29.8	29.1
Atmospheric	20.4	20.0	18.7	22.3	26.4	35.4	25.5	24.4
Earth	22.5	25.0	22.8	22.2	25.7	28.4	29.4	27.3
Ocean	29.1	30.9	29.8	32.9	35.8	35.6	34.1	36.8
Other	16.3	17.0	19.2	25.2	23.8	24.0	28.6	26.5
Mathematics and statistics	13.0	13.6	20.8	13.2	18.1	19.3	19.2	22.5
Mathematics/applied mathematics	13.4	13.3	20.6	12.3	17.3	18.1	18.4	22.1
Statistics	8.3	16.7	23.3	25.0	29.2	35.7	27.5	26.1
Physical sciences	17.5	17.5	17.0	16.7	17.4	18.7	19.2	19.1
Astronomy	16.0	19.4	15.5	15.6	17.7	20.0	21.9	18.8
Chemistry	20.3	20.9	20.3	19.9	21.0	22.2	22.7	22.1
Physics	11.4	10.5	10.7	10.7	10.4	12.3	12.6	13.8
Other	29.3	17.5	11.9	10.8	14.7	13.9	13.7	14.8

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Field and sex	1997	1998	1999	2000	2001	2002	2003	2004
Psychology	49.0	51.2	52.1	48.9	51.1	52.3	50.4	50.5
Clinical	66.7	64.7	77.1	69.9	74.1	72.1	63.9	68.6
General	46.3	48.6	47.1	43.8	48.8	49.6	51.0	49.6
Nonclinical	50.0	53.2	53.4	51.2	47.8	52.6	45.3	46.1
Social sciences	39.9	38.9	43.2	41.4	42.2	48.7	50.0	44.0
Agricultural economics	22.0	15.8	23.3	26.8	25.7	19.0	24.0	20.6
Anthropology (cultural and social)	40.7	43.5	46.0	47.9	41.1	57.6	54.4	33.9
Economics	10.5	17.2	16.1	25.0	26.1	37.9	36.1	40.0
Geography	41.7	33.3	36.7	23.5	22.2	40.0	34.5	34.5
History and philosophy of science	35.7	30.4	50.0	42.9	33.3	38.5	28.6	50.0
Linguistics	57.9	66.7	60.0	36.8	58.8	54.5	44.8	41.4
Political science and public administration	35.5	35.9	31.4	30.0	26.9	27.9	39.2	55.8
Sociology	49.0	53.2	60.6	52.0	54.5	65.0	68.9	64.9
Other	48.8	40.0	48.4	49.1	55.3	53.0	60.9	44.6
Engineering	11.6	13.4	14.7	14.3	15.3	16.8	15.8	17.7
Aerospace	8.8	6.0	11.7	9.0	10.9	12.1	10.6	11.3
Agricultural	6.9	10.7	12.9	12.5	10.3	15.6	16.3	15.5
Biomedical	22.2	21.7	26.4	30.0	27.7	28.3	27.9	30.2
Chemical	14.6	19.1	17.7	16.5	19.0	21.0	19.9	20.6
Civil	15.7	15.6	18.4	18.6	17.9	19.0	18.5	24.8
Electrical	7.7	10.0	12.2	9.7	11.0	9.0	11.9	13.3
Engineering science/physics	18.3	16.4	13.9	16.0	14.2	17.2	17.2	16.7
Industrial/manufacturing	3.6	6.7	18.5	16.7	15.0	33.3	20.0	24.0
Mechanical	5.9	6.9	7.1	7.9	8.6	10.4	7.2	11.3
Metallurgical/materials	13.3	16.1	16.4	15.0	16.5	17.0	12.8	16.1
Mining	0.0	0.0	0.0	12.5	7.1	0.0	8.3	0.0
Nuclear	9.1	10.5	6.7	7.5	6.4	3.6	13.5	14.9
Petroleum	4.8	14.3	0.0	5.0	11.8	6.7	11.8	7.1
Other	8.8	7.3	9.7	10.9	18.1	24.2	21.3	11.8

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 1997–2004.