

TABLE 19. Full-time graduate students in science, engineering, and health in doctorate-granting institutions, by field and primary source of support: 2005–11

Field and primary source of support	2005	2006	2007old <sup>a</sup>	2007new <sup>a</sup>	2008	2009	2010	2011
All surveyed fields	381,198	393,138	403,722	409,421	422,287	428,856	433,252	430,623
Federal	82,328	82,901	80,403	80,691	76,903	80,244	85,272	84,259
DOD	8,948	8,826	8,809	8,820	8,180	8,649	9,172	9,052
DOE	4,386	4,469	4,277	4,280	4,335	4,601	5,500	5,724
HHS	30,489	31,028	29,852	29,904	28,354	28,638	29,757	27,814
NIH	26,798	27,543	26,885	26,918	25,913	26,454	27,521	25,613
Other HHS	3,691	3,485	2,967	2,986	2,441	2,184	2,236	2,201
NASA	2,672	2,352	2,309	2,312	2,328	2,418	2,459	2,375
NSF	20,257	20,255	19,668	19,713	19,805	21,602	23,139	24,123
USDA	3,339	2,994	2,790	2,804	2,759	2,697	3,041	2,854
Other	12,237	12,977	12,698	12,858	11,142	11,639	12,204	12,317
Nonfederal	177,644	182,496	188,778	191,992	199,764	198,999	197,668	199,581
Institutional	150,941	154,856	162,019	165,084	174,047	172,414	171,734	173,723
Domestic	24,171	25,017	23,901	24,041	21,962	22,666	21,822	21,314
Foreign	2,532	2,623	2,858	2,867	3,755	3,919	4,112	4,544
Self-support	121,226	127,741	134,541	136,738	145,620	149,613	150,312	146,783
Science and engineering	323,371	331,382	342,430	350,133	362,344	376,569	386,384	388,995
Federal	73,700	73,692	71,927	73,048	70,383	74,728	79,554	79,493
DOD	8,601	8,465	8,475	8,497	7,864	8,411	8,898	8,851
DOE	4,370	4,442	4,241	4,246	4,311	4,587	5,476	5,704
HHS	23,881	24,331	23,621	24,461	23,947	24,682	25,586	24,660
NIH	22,731	23,286	22,602	23,425	22,829	23,521	24,349	23,287
Other HHS	1,150	1,045	1,019	1,036	1,118	1,161	1,237	1,373
NASA	2,652	2,338	2,301	2,305	2,320	2,415	2,366	2,364
NSF	20,049	19,972	19,446	19,515	19,599	21,433	22,946	23,927
USDA	3,252	2,896	2,715	2,715	2,691	2,616	2,941	2,760
Other	10,895	11,248	11,128	11,309	9,651	10,584	11,341	11,227
Nonfederal	161,917	165,667	170,553	174,434	183,273	183,782	183,532	186,486
Institutional	137,828	141,069	146,694	150,326	159,833	159,636	159,696	162,473
Domestic	21,748	22,156	21,248	21,483	19,933	20,519	20,067	19,916
Foreign	2,341	2,442	2,611	2,625	3,507	3,627	3,769	4,097
Self-support	87,754	92,023	99,950	102,651	108,688	118,059	123,298	123,016
Science	241,130	246,248	252,596	259,222	267,267	275,074	279,950	283,914
Federal	52,535	52,441	51,020	51,974	49,682	51,903	54,399	54,386
DOD	3,275	3,134	3,206	3,185	3,100	3,193	3,466	3,493
DOE	2,456	2,508	2,484	2,482	2,475	2,523	2,782	2,873
HHS	21,627	21,850	21,002	21,835	21,165	21,731	22,256	21,476
NIH	20,663	20,940	20,138	20,954	20,180	20,758	21,248	20,329
Other HHS	964	910	864	881	985	973	1,008	1,147
NASA	1,382	1,292	1,302	1,298	1,304	1,295	1,367	1,364
NSF	13,211	13,065	12,818	12,791	12,761	13,808	14,578	15,410
USDA	2,919	2,564	2,411	2,415	2,392	2,333	2,606	2,476
Other	7,665	8,028	7,797	7,968	6,485	7,020	7,344	7,294
Nonfederal	122,918	125,705	129,084	132,568	138,955	138,952	138,691	142,045
Institutional	108,539	110,816	114,596	117,932	125,045	124,895	124,920	128,289
Domestic	12,882	13,283	12,921	13,075	11,866	11,909	11,566	11,426
Foreign	1,497	1,606	1,567	1,561	2,044	2,148	2,205	2,330
Self-support	65,677	68,102	72,492	74,680	78,630	84,219	86,860	87,483
Agricultural sciences	9,185	8,977	9,103	9,276	9,564	10,246	10,505	10,889
Federal	2,319	2,259	2,241	2,293	2,010	2,170	2,399	2,490
DOD	24	25	58	57	26	23	26	32
DOE	53	42	53	53	38	58	70	56
HHS	84	78	74	74	68	69	77	70
NIH	74	67	52	52	61	52	68	52
Other HHS	10	11	22	22	7	17	9	18
NASA	49	42	41	47	39	41	41	30
NSF	211	216	257	257	222	265	339	373

TABLE 19. Full-time graduate students in science, engineering, and health in doctorate-granting institutions, by field and primary source of support: 2005–11

Field and primary source of support	2005	2006	2007old <sup>a</sup>	2007new <sup>a</sup>	2008	2009	2010	2011
USDA	1,277	1,169	1,029	1,081	1,064	1,108	1,242	1,217
Other	621	687	729	724	553	606	604	712
Nonfederal	5,343	5,279	5,388	5,558	5,975	5,929	5,888	6,120
Institutional	3,888	3,993	4,169	4,320	4,716	4,606	4,528	4,866
Domestic	1,351	1,208	1,161	1,175	1,128	1,237	1,235	1,137
Foreign	104	78	58	63	131	86	125	117
Self-support	1,523	1,439	1,474	1,425	1,579	2,147	2,218	2,279
Biological sciences	55,836	57,082	58,011	58,327	58,501	59,235	60,028	59,764
Federal	21,967	22,091	20,925	20,868	19,841	20,420	21,139	20,247
DOD	346	360	360	356	398	402	437	401
DOE	253	213	178	177	176	198	208	184
HHS	16,167	16,595	15,717	15,726	15,082	15,504	15,888	14,831
NIH	15,648	16,086	15,303	15,322	14,624	15,109	15,429	14,266
Other HHS	519	509	414	404	458	395	459	565
NASA	94	81	65	67	51	54	65	62
NSF	2,292	2,204	2,118	2,119	2,123	2,279	2,367	2,562
USDA	1,071	904	901	841	791	769	830	778
Other	1,744	1,734	1,586	1,582	1,220	1,214	1,344	1,429
Nonfederal	26,699	27,341	28,551	28,413	29,065	28,681	28,185	28,835
Institutional	22,760	23,134	24,465	24,355	25,173	24,818	24,415	25,155
Domestic	3,681	3,918	3,816	3,792	3,515	3,401	3,268	3,197
Foreign	258	289	270	266	377	462	502	483
Self-support	7,170	7,650	8,535	9,046	9,595	10,134	10,704	10,682
Communication <sup>a</sup>	ne	ne	ne	4,049	4,642	5,429	5,588	6,053
Federal	ne	ne	ne	116	91	119	137	147
DOD	ne	ne	ne	8	8	19	21	24
DOE	ne	ne	ne	0	0	1	1	2
HHS	ne	ne	ne	23	28	27	32	23
NIH	ne	ne	ne	19	24	20	22	17
Other HHS	ne	ne	ne	4	4	7	10	6
NASA	ne	ne	ne	0	0	0	0	0
NSF	ne	ne	ne	14	19	40	48	56
USDA	ne	ne	ne	7	5	5	4	5
Other	ne	ne	ne	64	31	27	31	37
Nonfederal	ne	ne	ne	2,512	3,028	3,222	3,185	3,545
Institutional	ne	ne	ne	2,303	2,725	2,921	2,898	3,311
Domestic	ne	ne	ne	185	293	289	269	217
Foreign	ne	ne	ne	24	10	12	18	17
Self-support	ne	ne	ne	1,421	1,523	2,088	2,266	2,361
Computer sciences	26,524	26,937	28,285	27,874	28,850	29,669	30,080	30,407
Federal	5,326	5,008	5,135	5,060	4,920	5,236	5,764	5,701
DOD	1,403	1,196	1,243	1,220	1,201	1,216	1,299	1,260
DOE	156	164	176	178	141	143	188	191
HHS	327	310	358	357	367	341	385	389
NIH	289	268	331	329	324	307	330	345
Other HHS	38	42	27	28	43	34	55	44
NASA	95	85	102	102	82	74	64	60
NSF	2,810	2,708	2,744	2,693	2,630	2,874	3,157	3,193
USDA	21	32	28	29	10	11	19	17
Other	514	513	484	481	489	577	652	591
Nonfederal	10,162	10,153	10,235	10,008	10,739	11,004	10,309	10,495
Institutional	8,530	8,528	8,740	8,648	9,451	9,574	8,911	8,930
Domestic	1,453	1,421	1,295	1,181	1,070	1,172	1,157	1,165
Foreign	179	204	200	179	218	258	241	400
Self-support	11,036	11,776	12,915	12,806	13,191	13,429	14,007	14,211

TABLE 19. Full-time graduate students in science, engineering, and health in doctorate-granting institutions, by field and primary source of support: 2005–11

Field and primary source of support	2005	2006	2007old <sup>a</sup>	2007new <sup>a</sup>	2008	2009	2010	2011
Earth, atmospheric, and ocean sciences	10,999	11,102	10,973	10,570	10,874	11,211	11,868	11,973
Federal	3,277	3,285	3,275	3,161	3,090	3,078	3,272	3,350
DOD	153	131	116	111	114	99	118	151
DOE	166	117	148	145	148	145	176	217
HHS	29	64	26	26	30	36	34	27
NIH	17	55	25	25	22	24	24	22
Other HHS	12	9	1	1	8	12	10	5
NASA	457	417	429	417	433	444	458	487
NSF	1,493	1,537	1,496	1,445	1,445	1,459	1,571	1,688
USDA	73	70	79	67	71	50	44	45
Other	906	949	981	950	849	845	871	735
Nonfederal	5,783	5,846	5,696	5,461	5,810	5,965	6,166	6,147
Institutional	4,842	4,787	4,811	4,603	4,898	5,039	5,217	5,245
Domestic	845	980	788	768	769	775	769	758
Foreign	96	79	97	90	143	151	180	144
Self-support	1,939	1,971	2,002	1,948	1,974	2,168	2,430	2,476
Family and consumer sciences/human sciences <sup>a</sup>	ne	ne	ne	1,489	1,754	1,903	2,118	2,348
Federal	ne	ne	ne	91	99	111	123	152
DOD	ne	ne	ne	3	6	7	3	1
DOE	ne	ne	ne	0	0	0	0	0
HHS	ne	ne	ne	47	38	49	56	57
NIH	ne	ne	ne	31	28	40	39	35
Other HHS	ne	ne	ne	16	10	9	17	22
NASA	ne	ne	ne	0	0	0	0	0
NSF	ne	ne	ne	9	9	13	11	18
USDA	ne	ne	ne	4	24	11	19	22
Other	ne	ne	ne	28	22	31	34	54
Nonfederal	ne	ne	ne	821	1,053	1,033	1,187	1,281
Institutional	ne	ne	ne	743	951	928	1,097	1,172
Domestic	ne	ne	ne	78	100	103	83	99
Foreign	ne	ne	ne	0	2	2	7	10
Self-support	ne	ne	ne	577	602	759	808	915
Mathematical sciences	14,652	14,995	15,311	15,013	15,636	16,328	16,917	17,587
Federal	1,718	1,738	1,691	1,654	1,594	1,869	1,854	1,917
DOD	184	175	173	162	169	148	164	152
DOE	69	64	54	53	49	51	61	64
HHS	165	178	189	192	171	205	217	210
NIH	155	152	159	163	155	183	198	197
Other HHS	10	26	30	29	16	22	19	13
NASA	24	18	16	12	13	20	18	18
NSF	1,011	1,006	987	963	977	1,139	1,097	1,191
USDA	35	19	19	19	15	16	36	39
Other	230	278	253	253	200	290	261	243
Nonfederal	10,308	10,369	10,578	10,500	11,026	10,981	11,238	11,490
Institutional	9,883	9,910	10,063	9,997	10,606	10,507	10,746	11,054
Domestic	342	390	460	455	324	349	338	302
Foreign	83	69	55	48	96	125	154	134
Self-support	2,626	2,888	3,042	2,859	3,016	3,478	3,825	4,180
Multidisciplinary/interdisciplinary studies <sup>a</sup>	ne	ne	ne	2,076	2,818	3,420	4,482	3,790
Federal	ne	ne	ne	346	304	351	601	661
DOD	ne	ne	ne	24	23	22	68	75
DOE	ne	ne	ne	5	8	6	21	37
HHS	ne	ne	ne	56	55	75	120	158
NIH	ne	ne	ne	49	52	71	91	114
Other HHS	ne	ne	ne	7	3	4	29	44
NASA	ne	ne	ne	5	4	3	12	16
NSF	ne	ne	ne	134	113	134	195	221

TABLE 19. Full-time graduate students in science, engineering, and health in doctorate-granting institutions, by field and primary source of support: 2005–11

Field and primary source of support	2005	2006	2007old <sup>a</sup>	2007new <sup>a</sup>	2008	2009	2010	2011
USDA	ne	ne	ne	13	7	15	21	24
Other	ne	ne	ne	109	94	96	164	130
Nonfederal	ne	ne	ne	887	1,464	1,689	2,124	1,702
Institutional	ne	ne	ne	807	1,342	1,555	1,916	1,542
Domestic	ne	ne	ne	71	92	93	170	139
Foreign	ne	ne	ne	9	30	41	38	21
Self-support	ne	ne	ne	843	1,050	1,380	1,757	1,427
Neuroscience <sup>a</sup>	na	na	na	1,529	1,908	2,261	2,682	3,909
Federal	na	na	na	844	1,045	1,200	1,340	1,917
DOD	na	na	na	9	9	33	44	52
DOE	na	na	na	0	1	1	1	1
HHS	na	na	na	785	957	1,072	1,179	1,629
NIH	na	na	na	780	948	1,046	1,155	1,587
Other HHS	na	na	na	5	9	26	24	42
NASA	na	na	na	0	1	0	0	0
NSF	na	na	na	22	53	75	93	175
USDA	na	na	na	0	0	1	1	6
Other	na	na	na	28	24	18	22	54
Nonfederal	na	na	na	617	767	977	1,192	1,772
Institutional	na	na	na	529	656	838	1,039	1,547
Domestic	na	na	na	82	102	127	144	205
Foreign	na	na	na	6	9	12	9	20
Self-support	na	na	na	68	96	84	150	220
Physical sciences	31,921	32,368	32,548	32,327	32,747	33,671	34,280	35,056
Federal	11,149	11,189	11,222	11,147	10,660	11,045	11,183	11,244
DOD	892	906	1,002	996	865	904	935	900
DOE	1,695	1,834	1,795	1,791	1,866	1,894	2,011	2,072
HHS	2,615	2,518	2,560	2,531	2,394	2,362	2,264	2,193
NIH	2,473	2,396	2,403	2,374	2,253	2,210	2,156	2,062
Other HHS	142	122	157	157	141	152	108	131
NASA	574	571	583	582	607	573	630	587
NSF	4,131	4,083	3,901	3,873	3,956	4,176	4,307	4,404
USDA	39	24	34	33	67	32	28	21
Other	1,203	1,253	1,347	1,341	905	1,104	1,008	1,067
Nonfederal	19,101	19,419	19,476	19,401	20,157	20,269	20,496	21,130
Institutional	16,954	17,241	17,288	17,227	18,186	18,236	18,554	19,214
Domestic	2,054	2,067	1,999	1,985	1,736	1,771	1,680	1,582
Foreign	93	111	189	189	235	262	262	334
Self-support	1,671	1,760	1,850	1,779	1,930	2,357	2,601	2,682
Psychology <sup>b</sup>	32,781	32,944	34,801	34,286	35,866	34,585	33,566	33,496
Federal	3,457	3,354	3,305	3,201	2,897	2,966	3,112	2,983
DOD	143	145	130	115	125	138	168	200
DOE	30	32	30	30	6	0	1	1
HHS	1,845	1,732	1,690	1,641	1,594	1,584	1,592	1,468
NIH	1,703	1,599	1,545	1,501	1,390	1,378	1,427	1,336
Other HHS	142	133	145	140	204	206	165	132
NASA	7	8	2	3	6	6	5	7
NSF	393	415	419	380	361	411	489	531
USDA	15	11	6	6	3	6	5	7
Other	1,024	1,011	1,028	1,026	802	821	852	769
Nonfederal	13,848	14,292	15,155	14,914	14,960	14,385	13,998	13,527
Institutional	12,490	12,787	13,643	13,464	13,745	13,215	12,855	12,552
Domestic	1,328	1,453	1,455	1,399	1,108	1,096	1,034	898
Foreign	30	52	57	51	107	74	109	77
Self-support	15,476	15,298	16,341	16,171	18,009	17,234	16,456	16,986

TABLE 19. Full-time graduate students in science, engineering, and health in doctorate-granting institutions, by field and primary source of support: 2005–11

Field and primary source of support	2005	2006	2007old <sup>a</sup>	2007new <sup>a</sup>	2008	2009	2010	2011
Social sciences	59,232	61,843	63,564	62,406	64,107	67,116	67,836	68,642
Federal	3,322	3,517	3,226	3,193	3,131	3,338	3,475	3,577
DOD	130	196	124	124	156	182	183	245
DOE	34	42	50	50	42	26	44	48
HHS	395	375	388	377	381	407	412	421
NIH	304	317	320	309	299	318	309	296
Other HHS	91	58	68	68	82	89	103	125
NASA	82	70	64	63	68	80	74	97
NSF	870	896	896	882	853	943	904	998
USDA	388	335	315	315	335	309	357	295
Other	1,423	1,603	1,389	1,382	1,296	1,391	1,501	1,473
Nonfederal	31,674	33,006	34,005	33,476	34,911	34,817	34,723	36,001
Institutional	29,192	30,436	31,417	30,936	32,596	32,658	32,744	33,701
Domestic	1,828	1,846	1,947	1,904	1,629	1,496	1,419	1,727
Foreign	654	724	641	636	686	663	560	573
Self-support	24,236	25,320	26,333	25,737	26,065	28,961	29,638	29,064
Engineering	82,241	85,134	89,834	90,911	95,077	101,495	106,434	105,081
Federal	21,165	21,251	20,907	21,074	20,701	22,825	25,155	25,107
DOD	5,326	5,331	5,269	5,312	4,764	5,218	5,432	5,358
DOE	1,914	1,934	1,757	1,764	1,836	2,064	2,694	2,831
HHS	2,254	2,481	2,619	2,626	2,782	2,951	3,330	3,184
NIH	2,068	2,346	2,464	2,471	2,649	2,763	3,101	2,958
Other HHS	186	135	155	155	133	188	229	226
NASA	1,270	1,046	999	1,007	1,016	1,120	999	1,000
NSF	6,838	6,907	6,628	6,724	6,838	7,625	8,368	8,517
USDA	333	332	304	300	299	283	335	284
Other	3,230	3,220	3,331	3,341	3,166	3,564	3,997	3,933
Nonfederal	38,999	39,962	41,469	41,866	44,318	44,830	44,841	44,441
Institutional	29,289	30,253	32,098	32,394	34,788	34,741	34,776	34,184
Domestic	8,866	8,873	8,327	8,408	8,067	8,610	8,501	8,490
Foreign	844	836	1,044	1,064	1,463	1,479	1,564	1,767
Self-support	22,077	23,921	27,458	27,971	30,058	33,840	36,438	35,533
Aerospace engineering	3,150	3,291	3,379	3,379	3,588	3,845	4,187	4,200
Federal	1,215	1,157	1,135	1,135	1,236	1,346	1,371	1,456
DOD	557	540	482	482	509	588	645	681
DOE	42	42	47	47	47	43	63	72
HHS	16	17	19	19	12	13	10	8
NIH	15	15	15	15	11	13	10	8
Other HHS	1	2	4	4	1	0	0	0
NASA	382	318	336	336	382	434	345	373
NSF	135	139	131	131	140	143	183	176
USDA	1	1	0	0	0	0	0	1
Other	82	100	120	120	146	125	125	145
Nonfederal	1,227	1,345	1,519	1,519	1,483	1,486	1,565	1,458
Institutional	946	950	1,040	1,040	1,218	1,152	1,222	1,139
Domestic	244	347	382	382	190	253	254	230
Foreign	37	48	97	97	75	81	89	89
Self-support	708	789	725	725	869	1,013	1,251	1,286
Agricultural engineering	855	893	917	917	1,022	1,084	1,198	1,372
Federal	253	268	245	245	279	298	369	383
DOD	13	15	8	8	17	33	16	27
DOE	6	9	10	10	12	26	27	36
HHS	10	7	8	8	10	12	36	43
NIH	7	4	8	8	9	9	13	19
Other HHS	3	3	0	0	1	3	23	24
NASA	7	16	9	9	4	5	8	16
NSF	25	21	30	30	33	39	56	68

TABLE 19. Full-time graduate students in science, engineering, and health in doctorate-granting institutions, by field and primary source of support: 2005–11

Field and primary source of support	2005	2006	2007old <sup>a</sup>	2007new <sup>a</sup>	2008	2009	2010	2011
USDA	121	149	113	113	119	116	140	110
Other	71	51	67	67	84	67	86	83
Nonfederal	503	506	577	577	621	614	572	693
Institutional	377	400	451	451	492	466	454	538
Domestic	113	97	112	112	96	129	93	108
Foreign	13	9	14	14	33	19	25	47
Self-support	99	119	95	95	122	172	257	296
Architecture <sup>a</sup>	na	na	na	3,981	5,092	5,988	5,959	2,754
Federal	na	na	na	38	41	104	150	74
DOD	na	na	na	9	5	4	7	6
DOE	na	na	na	2	5	4	18	11
HHS	na	na	na	0	3	3	4	6
NIH	na	na	na	0	2	2	4	6
Other HHS	na	na	na	0	1	1	0	0
NASA	na	na	na	0	0	0	0	3
NSF	na	na	na	6	7	12	18	14
USDA	na	na	na	1	3	1	1	0
Other	na	na	na	20	18	80	102	34
Nonfederal	na	na	na	1,718	2,118	2,258	2,329	1,271
Institutional	na	na	na	1,545	1,955	1,957	2,107	1,124
Domestic	na	na	na	150	134	265	181	121
Foreign	na	na	na	23	29	36	41	26
Self-support	na	na	na	2,225	2,933	3,626	3,480	1,409
Biomedical engineering	5,232	5,641	5,885	5,908	6,260	6,840	7,375	7,847
Federal	1,639	1,807	2,089	2,100	2,230	2,447	2,709	2,731
DOD	87	99	93	93	122	157	152	180
DOE	18	25	26	26	42	50	49	42
HHS	1,137	1,245	1,412	1,423	1,542	1,618	1,803	1,770
NIH	1,122	1,234	1,389	1,400	1,500	1,589	1,767	1,732
Other HHS	15	11	23	23	42	29	36	38
NASA	32	10	15	15	14	15	24	12
NSF	252	280	306	306	352	417	508	584
USDA	5	5	6	6	5	6	16	2
Other	108	143	231	231	153	184	157	141
Nonfederal	2,325	2,464	2,460	2,472	2,808	2,958	3,047	3,258
Institutional	1,649	1,828	1,933	1,945	2,175	2,270	2,354	2,531
Domestic	645	621	509	509	572	620	615	633
Foreign	31	15	18	18	61	68	78	94
Self-support	1,268	1,370	1,336	1,336	1,222	1,435	1,619	1,858
Chemical engineering	6,110	6,185	6,249	6,433	6,722	7,058	7,472	7,594
Federal	2,097	2,104	1,985	2,039	2,044	2,121	2,439	2,400
DOD	204	179	164	173	162	187	215	223
DOE	365	371	352	353	374	373	440	487
HHS	274	328	282	294	302	304	366	338
NIH	236	298	248	260	267	263	343	291
Other HHS	38	30	34	34	35	41	23	47
NASA	90	67	52	52	30	31	35	31
NSF	851	816	814	848	860	913	1,089	1,039
USDA	46	61	62	62	60	54	48	42
Other	267	282	259	257	256	259	246	240
Nonfederal	3,244	3,324	3,471	3,607	3,766	3,945	3,777	3,787
Institutional	2,338	2,336	2,501	2,586	2,759	2,907	2,735	2,702
Domestic	864	927	811	859	861	885	909	896
Foreign	42	61	159	162	146	153	133	189
Self-support	769	757	793	787	912	992	1,256	1,407

TABLE 19. Full-time graduate students in science, engineering, and health in doctorate-granting institutions, by field and primary source of support: 2005–11

Field and primary source of support	2005	2006	2007old <sup>a</sup>	2007new <sup>a</sup>	2008	2009	2010	2011
Civil engineering <sup>a</sup>	12,958	12,836	14,352	11,063	11,619	13,120	13,719	13,898
Federal	1,997	1,870	1,888	1,869	1,726	1,978	2,216	2,301
DOD	180	143	205	200	189	193	179	183
DOE	92	64	73	71	73	108	146	136
HHS	60	56	47	47	38	53	48	36
NIH	32	30	39	39	33	34	35	31
Other HHS	28	26	8	8	5	19	13	5
NASA	68	57	59	65	75	98	107	81
NSF	652	658	653	649	545	637	758	843
USDA	64	40	52	47	45	44	55	54
Other	881	852	799	790	761	845	923	968
Nonfederal	6,468	6,518	7,153	5,710	6,269	6,482	6,556	6,478
Institutional	5,303	5,345	6,008	4,707	5,257	5,458	5,475	5,400
Domestic	1,054	1,079	1,024	897	837	863	892	855
Foreign	111	94	121	106	175	161	189	223
Self-support	4,493	4,448	5,311	3,484	3,624	4,660	4,947	5,119
Electrical engineering	25,002	26,259	27,522	27,646	27,813	27,792	28,605	29,600
Federal	6,021	5,975	5,809	5,866	5,888	6,248	6,557	6,613
DOD	1,946	1,937	1,906	1,923	1,969	2,046	2,088	2,025
DOE	236	244	213	212	186	226	320	356
HHS	360	421	402	402	418	429	431	445
NIH	314	394	378	379	394	397	396	414
Other HHS	46	27	24	23	24	32	35	31
NASA	242	215	215	215	203	204	178	183
NSF	2,488	2,481	2,347	2,389	2,492	2,707	2,810	2,829
USDA	23	21	22	20	14	11	17	9
Other	726	656	704	705	606	625	713	766
Nonfederal	11,259	11,119	11,365	11,412	11,395	11,074	10,579	10,972
Institutional	8,221	8,485	8,826	8,841	8,887	8,591	8,104	8,425
Domestic	2,784	2,434	2,367	2,395	2,234	2,223	2,219	2,205
Foreign	254	200	172	176	274	260	256	342
Self-support	7,722	9,165	10,348	10,368	10,530	10,470	11,469	12,015
Engineering science	1,589	1,639	1,437	1,402	1,444	1,450	1,478	1,545
Federal	593	581	434	424	453	471	460	520
DOD	164	126	96	96	95	95	81	112
DOE	78	100	77	77	84	109	98	105
HHS	55	58	48	48	51	33	44	36
NIH	46	56	44	44	51	30	44	35
Other HHS	9	2	4	4	0	3	0	1
NASA	20	24	13	13	15	19	19	25
NSF	234	230	166	155	167	178	164	196
USDA	1	1	3	3	5	2	2	5
Other	41	42	31	32	36	35	52	41
Nonfederal	811	792	718	694	651	673	697	683
Institutional	634	617	615	590	542	548	541	556
Domestic	159	158	95	96	85	105	134	109
Foreign	18	17	8	8	24	20	22	18
Self-support	185	266	285	284	340	306	321	342
Industrial engineering	5,822	6,171	6,727	7,109	7,852	7,878	7,829	7,737
Federal	934	887	769	820	871	996	1,166	1,097
DOD	336	316	249	268	250	326	377	365
DOE	46	46	32	34	73	55	81	96
HHS	68	65	81	81	78	103	123	114
NIH	56	54	53	52	68	80	97	96
Other HHS	12	11	28	29	10	23	26	18
NASA	48	20	23	28	23	29	28	21
NSF	285	278	249	275	289	309	320	303

TABLE 19. Full-time graduate students in science, engineering, and health in doctorate-granting institutions, by field and primary source of support: 2005–11

Field and primary source of support	2005	2006	2007old <sup>a</sup>	2007new <sup>a</sup>	2008	2009	2010	2011
USDA	9	9	8	8	7	11	6	5
Other	142	153	127	126	151	163	231	193
Nonfederal	2,637	2,791	2,727	2,840	3,239	2,982	2,856	2,964
Institutional	2,084	2,255	2,221	2,268	2,567	2,335	2,210	2,175
Domestic	495	465	407	434	561	518	506	621
Foreign	58	71	99	138	111	129	140	168
Self-support	2,251	2,493	3,231	3,449	3,742	3,900	3,807	3,676
Mechanical engineering	11,984	12,408	12,913	12,903	13,456	15,215	16,257	15,758
Federal	3,092	3,228	3,179	3,175	3,167	3,619	4,112	3,894
DOD	700	777	849	847	852	965	979	887
DOE	342	391	331	331	371	386	585	571
HHS	186	187	190	190	193	221	262	215
NIH	159	171	168	168	183	199	232	181
Other HHS	27	16	22	22	10	22	30	34
NASA	258	217	189	189	193	213	212	193
NSF	1,053	1,091	1,076	1,074	1,068	1,255	1,365	1,380
USDA	19	11	17	17	15	16	22	14
Other	534	554	527	527	475	563	687	634
Nonfederal	5,997	6,331	6,466	6,458	6,694	7,245	7,497	7,377
Institutional	4,614	4,816	4,995	4,999	5,215	5,539	5,772	5,772
Domestic	1,255	1,361	1,314	1,303	1,197	1,435	1,403	1,317
Foreign	128	154	157	156	282	271	322	288
Self-support	2,895	2,849	3,268	3,270	3,595	4,351	4,648	4,487
Metallurgical/materials engineering	4,491	4,606	4,647	4,593	4,784	5,166	5,519	5,839
Federal	1,587	1,628	1,601	1,618	1,690	2,020	2,111	2,079
DOD	364	369	401	404	388	398	430	405
DOE	319	318	254	261	287	346	433	454
HHS	36	58	64	58	75	85	105	103
NIH	31	57	62	56	75	82	88	86
Other HHS	5	1	2	2	0	3	17	17
NASA	58	52	30	30	33	32	20	27
NSF	639	661	606	615	645	768	809	775
USDA	7	6	5	5	11	16	12	33
Other	164	164	241	245	251	375	302	282
Nonfederal	2,379	2,396	2,468	2,389	2,456	2,268	2,367	2,586
Institutional	1,604	1,581	1,675	1,621	1,695	1,646	1,688	1,878
Domestic	705	755	708	685	633	497	584	612
Foreign	70	60	85	83	128	125	95	96
Self-support	525	582	578	586	638	878	1,041	1,174
Mining engineering	200	177	199	132	201	205	353	412
Federal	36	28	37	26	23	31	60	84
DOD	1	1	3	0	0	0	0	5
DOE	17	14	10	10	12	6	16	25
HHS	1	1	5	7	4	14	23	25
NIH	0	1	3	5	3	10	14	14
Other HHS	1	0	2	2	1	4	9	11
NASA	2	0	0	0	0	0	1	0
NSF	4	2	5	0	1	4	5	9
USDA	1	1	0	0	0	0	0	0
Other	10	9	14	9	6	7	15	20
Nonfederal	117	99	106	87	138	132	188	205
Institutional	102	87	83	67	70	60	164	172
Domestic	13	11	23	20	68	72	24	32
Foreign	2	1	0	0	0	0	0	1
Self-support	47	50	56	19	40	42	105	123



TABLE 19. Full-time graduate students in science, engineering, and health in doctorate-granting institutions, by field and primary source of support: 2005–11

Field and primary source of support	2005	2006	2007old <sup>a</sup>	2007new <sup>a</sup>	2008	2009	2010	2011
Nuclear engineering	840	910	960	951	941	968	1,123	1,165
Federal	368	338	328	326	335	403	503	518
DOD	48	48	35	35	46	60	83	78
DOE	231	208	212	212	182	208	242	252
HHS	12	8	11	9	9	10	7	4
NIH	12	8	10	8	9	10	7	4
Other HHS	0	0	1	1	0	0	0	0
NASA	10	9	16	16	7	10	6	13
NSF	10	5	19	19	17	18	24	19
USDA	0	0	0	0	0	0	0	0
Other	57	60	35	35	74	97	141	152
Nonfederal	346	439	489	483	472	432	471	496
Institutional	234	337	376	370	345	268	320	326
Domestic	100	89	101	101	100	153	144	154
Foreign	12	13	12	12	27	11	7	16
Self-support	126	133	143	142	134	133	149	151
Petroleum engineering	629	642	786	786	822	988	1,058	1,057
Federal	97	64	100	100	28	37	68	81
DOD	0	1	0	0	0	0	0	0
DOE	86	51	73	73	15	28	61	57
HHS	0	0	1	1	0	0	0	0
NIH	0	0	0	0	0	0	0	0
Other HHS	0	0	1	1	0	0	0	0
NASA	2	0	7	7	0	0	0	0
NSF	4	5	9	9	3	2	2	10
USDA	3	1	0	0	1	1	1	0
Other	2	6	10	10	9	6	4	14
Nonfederal	402	451	522	522	607	735	724	738
Institutional	178	203	247	247	258	312	304	281
Domestic	185	192	215	215	282	320	294	337
Foreign	39	56	60	60	67	103	126	120
Self-support	130	127	164	164	187	216	266	238
Engineering, nec	3,379	3,476	3,861	3,708	3,461	3,898	4,302	4,303
Federal	1,236	1,316	1,308	1,293	690	706	864	876
DOD	726	780	778	774	160	166	180	181
DOE	36	51	47	45	73	96	115	131
HHS	39	30	49	39	47	53	68	41
NIH	38	24	47	37	44	45	51	41
Other HHS	1	6	2	2	3	8	17	0
NASA	51	41	35	32	37	30	16	22
NSF	206	240	217	218	219	223	257	272
USDA	33	26	16	18	14	5	15	9
Other	145	148	166	167	140	133	213	220
Nonfederal	1,284	1,387	1,428	1,378	1,601	1,546	1,616	1,475
Institutional	1,005	1,013	1,127	1,117	1,353	1,232	1,326	1,165
Domestic	250	337	259	250	217	272	249	260
Foreign	29	37	42	11	31	42	41	50
Self-support	859	773	1,125	1,037	1,170	1,646	1,822	1,952
Health <sup>a,b</sup>	57,827	61,756	61,292	59,288	59,943	52,287	46,868	41,628
Federal	8,628	9,209	8,476	7,643	6,520	5,516	5,718	4,766
DOD	347	361	334	323	316	238	274	201
DOE	16	27	36	34	24	14	24	20
HHS	6,608	6,697	6,231	5,443	4,407	3,956	4,171	3,154
NIH	4,067	4,257	4,283	3,493	3,084	2,933	3,172	2,326
Other HHS	2,541	2,440	1,948	1,950	1,323	1,023	999	828
NASA	20	14	8	7	8	3	93	11
NSF	208	283	222	198	206	169	193	196

TABLE 19. Full-time graduate students in science, engineering, and health in doctorate-granting institutions, by field and primary source of support: 2005–11

Field and primary source of support	2005	2006	2007old <sup>a</sup>	2007new <sup>a</sup>	2008	2009	2010	2011
USDA	87	98	75	89	68	81	100	94
Other	1,342	1,729	1,570	1,549	1,491	1,055	863	1,090
Nonfederal	15,727	16,829	18,225	17,558	16,491	15,217	14,136	13,095
Institutional	13,113	13,787	15,325	14,758	14,214	12,778	12,038	11,250
Domestic	2,423	2,861	2,653	2,558	2,029	2,147	1,755	1,398
Foreign	191	181	247	242	248	292	343	447
Self-support	33,472	35,718	34,591	34,087	36,932	31,554	27,014	23,767

na = not applicable; data were not collected at this level of detail. ne = not eligible; data were not collected for this field prior to 2007.

DOD = Department of Defense; DOE = Department of Energy; HHS = Department of Health and Human Services; NASA = National Aeronautics and Space Administration; nec = not elsewhere classified; NIH = National Institutes of Health; NSF = National Science Foundation; USDA = U.S. Department of Agriculture.

<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.

<sup>b</sup> 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.