

TABLE A-5. Imputation for nonresponse in doctorate-granting institutions, by field and graduate enrollment or postdoctoral status: 2009–11

Year and field	Organizational units in universe	Total in survey			Number imputed			Imputation rate (%)		
		Full-time student	Part-time student	Post- doctorate	Full-time student	Part-time student	Post- doctorate	Full-time student	Part-time student	Post- doctorate
Fall 2011, all surveyed fields	12,419	430,623	139,911	62,854	6,804	3,147	3,249	1.6	2.2	5.2
Science and engineering	9,685	388,995	122,764	44,164	5,622	2,868	2,147	1.4	2.3	4.9
Science	7,862	283,914	87,919	37,404	4,115	2,169	1,662	1.4	2.5	4.4
Agricultural sciences	456	10,889	4,189	1,255	10	0	1	0.1	0.0	0.1
Biological sciences	2,306	59,764	9,922	21,317	597	87	1,061	1.0	0.9	5.0
Communication	182	6,053	2,949	63	53	70	0	0.9	2.4	0.0
Computer sciences	437	30,407	15,713	766	1,301	760	67	4.3	4.8	8.7
Earth, atmospheric, and ocean sciences	409	11,973	2,914	1,764	290	377	24	2.4	12.9	1.4
Family and consumer sciences/human sciences	95	2,348	1,442	54	0	0	2	0.0	0.0	3.7
Mathematical sciences	452	17,587	4,380	803	352	111	59	2.0	2.5	7.3
Multidisciplinary/interdisciplinary studies	313	3,790	1,995	697	79	29	4	2.1	1.5	0.6
Neuroscience	163	3,909	179	1,362	36	0	10	0.9	0.0	0.7
Physical sciences	669	35,056	3,600	7,479	277	51	395	0.8	1.4	5.3
Psychology	659	33,496	12,112	1,072	659	333	34	2.0	2.7	3.2
Social sciences	1,721	68,642	28,524	772	461	351	5	0.7	1.2	0.6
Engineering	1,823	105,081	34,845	6,760	1,507	699	485	1.4	2.0	7.2
Aerospace engineering	60	4,200	1,405	195	152	77	0	3.6	5.5	0.0
Agricultural engineering	43	1,372	283	129	0	0	4	0.0	0.0	3.1
Architecture	58	2,754	331	17	0	0	2	0.0	0.0	11.8
Biomedical engineering	139	7,847	1,227	1,076	0	0	122	0.0	0.0	11.3
Chemical engineering	146	7,594	1,147	1,137	94	0	65	1.2	0.0	5.7
Civil engineering	248	13,898	4,630	551	47	30	15	0.3	0.6	2.7
Electrical engineering	280	29,600	9,800	1,062	490	204	63	1.7	2.1	5.9
Engineering science	56	1,545	509	232	43	25	90	2.8	4.9	38.8
Industrial engineering	163	7,737	5,683	121	457	269	0	5.9	4.7	0.0
Mechanical engineering	206	15,758	5,230	894	223	89	77	1.4	1.7	8.6
Metallurgical/materials engineering	141	5,839	740	860	0	0	38	0.0	0.0	4.4
Mining engineering	19	412	86	4	0	0	0	0.0	0.0	0.0
Nuclear engineering	27	1,165	334	109	0	0	8	0.0	0.0	7.3
Petroleum engineering	18	1,057	235	35	0	0	0	0.0	0.0	0.0
Engineering, nec	219	4,303	3,205	338	1	5	1	0.0	0.2	0.3
Health	2,734	41,628	17,147	18,690	1,182	279	1,102	2.8	1.6	5.9
Clinical medicine	1,888	17,315	8,043	16,275	430	149	944	2.5	1.9	5.8
Other health	846	24,313	9,104	2,415	752	130	158	3.1	1.4	6.5
Fall 2010, all surveyed fields	12,276	433,252	142,533	63,305	6,613	1,749	2,969	1.5	1.2	4.7
Science and engineering	9,482	386,384	121,730	43,947	5,853	1,571	1,910	1.5	1.3	4.3
Science	7,661	279,950	86,362	36,997	4,220	985	1,524	1.5	1.1	4.1
Agricultural sciences	445	10,505	4,056	1,189	18	0	19	0.2	0.0	1.6
Biological sciences	2,279	60,028	9,494	21,489	801	69	1,026	1.3	0.7	4.8
Communication	167	5,588	2,631	60	53	67	0	0.9	2.5	0.0
Computer sciences	439	30,080	15,780	746	1,195	538	23	4.0	3.4	3.1
Earth, atmospheric, and ocean sciences	407	11,868	2,888	1,758	318	99	47	2.7	3.4	2.7

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Year and field	Organizational units in universe	Total in survey			Number imputed			Imputation rate (%)		
		Full-time student	Part-time student	Post- doctorate	Full-time student	Part-time student	Post- doctorate	Full-time student	Part-time student	Post- doctorate
Family and consumer sciences/human sciences	87	2,118	1,373	30	0	0	1	0.0	0.0	3.3
Mathematical sciences	450	16,917	4,413	752	224	24	20	1.3	0.5	2.7
Multidisciplinary/interdisciplinary studies	302	4,482	2,260	763	0	0	2	0.0	0.0	0.3
Neuroscience	107	2,682	116	817	28	0	20	1.0	0.0	2.4
Physical sciences	664	34,280	3,591	7,677	422	16	330	1.2	0.4	4.3
Psychology	657	33,566	11,680	1,072	544	84	28	1.6	0.7	2.6
Social sciences	1,657	67,836	28,080	644	617	88	8	0.9	0.3	1.2
Engineering	1,821	106,434	35,368	6,950	1,633	586	386	1.5	1.7	5.6
Aerospace engineering	62	4,187	1,287	191	128	66	8	3.1	5.1	4.2
Agricultural engineering	36	1,198	259	119	0	0	0	0.0	0.0	0.0
Architecture	83	5,959	688	10	97	5	0	1.6	0.7	0.0
Biomedical engineering	143	7,375	1,064	1,036	23	3	155	0.3	0.3	15.0
Chemical engineering	148	7,472	1,101	1,092	77	0	29	1.0	0.0	2.7
Civil engineering	257	13,719	4,780	569	57	33	4	0.4	0.7	0.7
Electrical engineering	266	28,605	10,004	1,097	485	145	71	1.7	1.4	6.5
Engineering science	47	1,478	542	242	41	21	9	2.8	3.9	3.7
Industrial engineering	161	7,829	6,107	163	432	234	23	5.5	3.8	14.1
Mechanical engineering	210	16,257	5,262	1,006	273	77	39	1.7	1.5	3.9
Metallurgical/materials engineering	129	5,519	697	834	20	2	8	0.4	0.3	1.0
Mining engineering	19	353	55	6	0	0	3	0.0	0.0	50.0
Nuclear engineering	26	1,123	336	107	0	0	0	0.0	0.0	0.0
Petroleum engineering	18	1,058	231	46	0	0	3	0.0	0.0	6.5
Engineering, nec	216	4,302	2,955	432	0	0	34	0.0	0.0	7.9
Health	2,794	46,868	20,803	19,358	760	178	1,059	1.6	0.9	5.5
Clinical medicine	1,888	16,852	7,216	16,609	197	42	843	1.2	0.6	5.1
Other health	906	30,016	13,587	2,749	563	136	216	1.9	1.0	7.9
Fall 2009, all surveyed fields	11,865	428,856	145,027	57,714	5,209	2,396	1,066	1.2	1.7	1.8
Science and engineering	9,191	376,569	120,654	40,717	4,557	1,779	723	1.2	1.5	1.8
Science	7,435	275,074	85,427	34,306	3,199	1,197	602	1.2	1.4	1.8
Agricultural sciences	453	10,246	3,864	1,080	0	0	11	0.0	0.0	1.0
Biological sciences	2,227	59,235	9,345	20,125	628	164	307	1.1	1.8	1.5
Communication	156	5,429	2,522	38	23	2	0	0.4	0.1	0.0
Computer sciences	422	29,669	15,924	591	695	465	18	2.3	2.9	3.0
Earth, atmospheric, and ocean sciences	388	11,211	2,731	1,420	177	108	34	1.6	4.0	2.4
Family and consumer sciences/human sciences	81	1,903	1,181	22	0	0	0	0.0	0.0	0.0
Mathematical sciences	450	16,328	4,199	737	10	17	2	0.1	0.4	0.3
Multidisciplinary/interdisciplinary studies	226	3,420	2,091	458	0	0	0	0.0	0.0	0.0
Neuroscience	84	2,261	55	642	0	0	0	0.0	0.0	0.0
Physical sciences	640	33,671	3,427	7,424	53	28	106	0.2	0.8	1.4
Psychology	662	34,585	11,979	1,209	358	109	121	1.0	0.9	10.0
Social sciences	1,646	67,116	28,109	560	1,255	304	3	1.9	1.1	0.5

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		Full-time student	Part-time student	Post- doctorate	Full-time student	Part-time student	Post- doctorate	Full-time student	Part-time student	Post- doctorate
Engineering	1,756	101,495	35,227	6,411	1,358	582	121	1.3	1.7	1.9
Aerospace engineering	58	3,845	1,251	168	121	56	0	3.1	4.5	0.0
Agricultural engineering	36	1,084	219	110	0	0	0	0.0	0.0	0.0
Architecture	82	5,988	673	22	61	1	0	1.0	0.1	0.0
Biomedical engineering	137	6,840	1,039	960	180	0	36	2.6	0.0	3.8
Chemical engineering	148	7,058	1,019	1,084	0	0	17	0.0	0.0	1.6
Civil engineering	251	13,120	4,588	535	11	2	6	0.1	0.0	1.1
Electrical engineering	265	27,792	10,278	1,023	384	236	10	1.4	2.3	1.0
Engineering science	43	1,450	554	226	36	18	0	2.5	3.2	0.0
Industrial engineering	157	7,878	6,748	109	404	203	1	5.1	3.0	0.9
Mechanical engineering	203	15,215	4,986	945	161	66	47	1.1	1.3	5.0
Metallurgical/materials engineering	129	5,166	656	758	0	0	0	0.0	0.0	0.0
Mining engineering	18	205	97	4	0	0	3	0.0	0.0	75.0
Nuclear engineering	25	968	275	90	0	0	1	0.0	0.0	1.1
Petroleum engineering	17	988	196	36	0	0	0	0.0	0.0	0.0
Engineering, nec	187	3,898	2,648	341	0	0	0	0.0	0.0	0.0
Health	2,674	52,287	24,373	16,997	652	617	343	1.2	2.5	2.0
Clinical medicine	1,757	16,018	6,652	14,601	68	101	286	0.4	1.5	2.0
Other health	917	36,269	17,721	2,396	584	516	57	1.6	2.9	2.4

nec = not elsewhere classified.

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