

TABLE A-7

Imputation for nonresponse within graduate student totals, by field and type of graduate degree: 2018–19

(Number and percent)

Year and field	Total in survey				Number imputed				Imputation rate (%)			
	Master's students		Doctoral students		Master's students		Doctoral students		Master's students		Doctoral students	
	Full time	Part time	Full time	Part time	Full time	Part time	Full time	Part time	Full time	Part time	Full time	Part time
Fall 2019, all surveyed fields	254,532	153,696	247,910	33,979	7,995	3,251	5,258	527	3.1	2.1	2.1	1.6
Science and engineering	216,427	135,307	236,363	29,598	7,064	3,064	4,841	397	3.3	2.3	2.0	1.3
Science	158,704	101,091	172,969	20,927	6,069	2,496	4,140	299	3.8	2.5	2.4	1.4
Agricultural sciences	3,504	2,125	3,245	644	68	63	9	29	1.9	3.0	0.3	4.5
Biological and biomedical sciences	25,757	12,321	50,476	3,439	536	254	1,392	33	2.1	2.1	2.8	1.0
Computer and information sciences	47,535	36,557	14,585	2,607	3,354	1,170	386	93	7.1	3.2	2.6	3.6
Geosciences, atmospheric sciences, and ocean sciences	3,675	1,652	5,846	705	29	0	197	3	0.8	0.0	3.4	0.4
Mathematics and statistics	13,359	6,235	12,322	1,243	671	73	265	8	5.0	1.2	2.2	0.6
Multidisciplinary and interdisciplinary studies	4,669	3,534	2,364	614	184	63	47	3	3.9	1.8	2.0	0.5
Natural resources and conservation	5,176	2,890	2,925	752	74	30	87	1	1.4	1.0	3.0	0.1
Physical sciences	3,878	2,483	34,284	2,222	113	27	843	30	2.9	1.1	2.5	1.4
Psychology	24,547	16,291	16,546	3,685	743	459	191	50	3.0	2.8	1.2	1.4
Social sciences	26,604	17,003	30,376	5,016	297	357	723	49	1.1	2.1	2.4	1.0
Engineering	57,723	34,216	63,394	8,671	995	568	701	98	1.7	1.7	1.1	1.1
Aerospace, aeronautical, and astronautical engineering	2,197	1,504	2,238	316	13	1	37	0	0.6	0.1	1.7	0.0
Agricultural engineering	393	101	561	101	0	0	0	0	0.0	0.0	0.0	0.0
Bioengineering and biomedical engineering	3,353	982	7,100	615	149	25	157	3	4.4	2.5	2.2	0.5
Biological and biosystems engineering	64	25	167	52	0	0	0	0	0.0	0.0	0.0	0.0
Chemical engineering	1,888	744	6,677	380	1	2	67	3	0.1	0.3	1.0	0.8
Civil engineering	7,576	4,297	6,726	1,026	10	4	28	0	0.1	0.1	0.4	0.0
Electrical, electronics, and communications engineering	19,138	9,039	16,288	2,289	653	253	206	68	3.4	2.8	1.3	3.0
Engineering mechanics, physics, and science	563	289	1,320	127	0	0	0	0	0.0	0.0	0.0	0.0
Industrial and manufacturing engineering	6,247	5,665	2,939	823	16	78	22	2	0.3	1.4	0.7	0.2
Mechanical engineering	9,394	5,467	9,951	1,296	103	170	83	7	1.1	3.1	0.8	0.5
Metallurgical and materials engineering	1,409	565	4,243	373	5	4	50	0	0.4	0.7	1.2	0.0
Mining engineering	202	90	159	42	0	0	0	0	0.0	0.0	0.0	0.0
Nanotechnology	38	11	141	5	0	0	0	0	0.0	0.0	0.0	0.0
Nuclear engineering	307	111	879	152	3	0	25	0	1.0	0.0	2.8	0.0
Petroleum engineering	441	201	543	64	0	0	0	0	0.0	0.0	0.0	0.0
Engineering nec	4,513	5,125	3,462	1,010	42	31	26	15	0.9	0.6	0.8	1.5
Health	38,105	18,389	11,547	4,381	931	187	417	130	2.4	1.0	3.6	3.0
Clinical medicine ^a	15,638	10,613	3,286	1,285	270	127	34	1	1.7	1.2	1.0	0.1
Other health	22,467	7,776	8,261	3,096	661	60	383	129	2.9	0.8	4.6	4.2
Fall 2018, all surveyed fields	248,552	142,659	242,897	34,199	4,090	1,553	2,603	135	1.6	1.1	1.1	0.4
Science and engineering	210,287	124,104	231,297	29,868	3,579	1,285	2,562	125	1.7	1.0	1.1	0.4
Science	151,059	90,268	170,004	20,924	3,212	1,026	1,897	107	2.1	1.1	1.1	0.5
Agricultural sciences	3,626	2,032	3,273	607	0	0	0	0	0.0	0.0	0.0	0.0

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Biological and biomedical sciences	24,759	10,547	49,254	3,373	222	102	306	39	0.9	1.0	0.6	1.2
Computer and information sciences	44,193	33,158	13,596	2,531	1,660	313	257	8	3.8	0.9	1.9	0.3
Geosciences, atmospheric sciences, and ocean sciences	3,820	1,809	5,950	754	13	6	56	0	0.3	0.3	0.9	0.0
Mathematics and statistics	12,707	5,366	12,248	1,140	676	98	146	24	5.3	1.8	1.2	2.1
Multidisciplinary and interdisciplinary studies	4,268	3,146	2,388	536	123	159	284	3	2.9	5.1	11.9	0.6
Natural resources and conservation	5,072	2,619	2,962	754	0	0	0	0	0.0	0.0	0.0	0.0
Physical sciences	3,915	2,160	33,756	2,244	76	45	368	2	1.9	2.1	1.1	0.1
Psychology	21,987	13,417	16,538	3,765	332	233	108	15	1.5	1.7	0.7	0.4
Social sciences	26,712	16,014	30,039	5,220	110	70	372	16	0.4	0.4	1.2	0.3
Engineering	59,228	33,836	61,293	8,944	367	259	665	18	0.6	0.8	1.1	0.2
Aerospace, aeronautical, and astronautical engineering	2,128	1,214	2,173	333	13	1	36	0	0.6	0.1	1.7	0.0
Agricultural engineering	286	85	572	89	0	0	0	0	0.0	0.0	0.0	0.0
Bioengineering and biomedical engineering	3,369	833	6,564	714	12	0	51	3	0.4	0.0	0.8	0.4
Biological and biosystems engineering	50	30	149	54	0	0	0	0	0.0	0.0	0.0	0.0
Chemical engineering	2,220	841	6,583	367	51	67	124	9	2.3	8.0	1.9	2.5
Civil engineering	8,289	4,440	6,573	1,159	6	0	27	0	0.1	0.0	0.4	0.0
Electrical, electronics, and communications engineering	19,341	8,767	15,473	2,646	181	96	212	1	0.9	1.1	1.4	*
Engineering mechanics, physics, and science	472	257	1,296	132	0	0	0	0	0.0	0.0	0.0	0.0
Industrial and manufacturing engineering	6,492	5,897	2,901	697	54	36	58	0	0.8	0.6	2.0	0.0
Mechanical engineering	10,178	5,256	9,898	1,261	41	55	79	5	0.4	1.0	0.8	0.4
Metallurgical and materials engineering	1,539	540	4,284	326	6	4	51	0	0.4	0.7	1.2	0.0
Mining engineering	211	105	170	41	0	0	0	0	0.0	0.0	0.0	0.0
Nanotechnology	32	15	71	0	0	0	0	0	0.0	0.0	0.0	-
Nuclear engineering	273	134	935	111	3	0	27	0	1.1	0.0	2.9	0.0
Petroleum engineering	477	277	579	70	0	0	0	0	0.0	0.0	0.0	0.0
Engineering nec	3,871	5,145	3,072	944	0	0	0	0	0.0	0.0	0.0	0.0
Health	38,265	18,555	11,600	4,331	511	268	41	10	1.3	1.4	0.4	0.2
Clinical medicine ^a	16,233	11,261	3,423	1,085	318	199	0	0	2.0	1.8	0.0	0.0
Other health	22,032	7,294	8,177	3,246	193	69	41	10	0.9	0.9	0.5	0.3

- = not calculable; * = value < 0.05%.

nec = not elsewhere classified.

^a Clinical medicine includes graduate students in public health and clinical medicine nec.**Note(s):**

Master's and doctoral students were not reported separately until 2017. Sum of the broad fields may not add to total because of rounding.

Source(s):

National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2019.