

TABLE A-7

**Imputation for nonresponse within graduate student totals, by field and type of graduate degree: 2019–21**

(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 2021, all surveyed fields	286,954	179,659	256,869	36,674	3,539	1,895	3,932	564	1.2	1.1	1.5	1.5
Science	184,719	121,077	181,488	22,500	2,289	1,465	3,341	321	1.2	1.2	1.8	1.4
Agricultural and veterinary sciences	4,034	2,767	3,720	723	43	20	36	11	1.1	0.7	1.0	1.5
Biological and biomedical sciences	27,949	14,779	54,269	3,886	437	287	950	42	1.6	1.9	1.8	1.1
Computer and information sciences	58,913	43,286	16,724	2,807	720	317	329	103	1.2	0.7	2.0	3.7
Geosciences, atmospheric sciences, and ocean sciences	3,731	1,789	6,132	638	24	25	157	0	0.6	1.4	2.6	0.0
Mathematics and statistics	14,157	6,482	12,365	1,254	77	93	177	3	0.5	1.4	1.4	0.2
Multidisciplinary and interdisciplinary studies	6,602	5,392	3,048	726	43	77	45	18	0.7	1.4	1.5	2.5
Natural resources and conservation	6,343	3,669	3,133	777	18	37	39	19	0.3	1.0	1.2	2.4
Physical sciences	3,834	2,575	35,013	2,719	159	43	727	47	4.1	1.7	2.1	1.7
Psychology	30,052	21,826	17,647	3,800	534	293	204	41	1.8	1.3	1.2	1.1
Social sciences	29,104	18,512	29,437	5,170	234	273	677	37	0.8	1.5	2.3	0.7
Engineering	58,790	36,336	64,063	8,861	346	219	502	58	0.6	0.6	0.8	0.7
Aerospace, aeronautical, and astronautical engineering	2,755	2,310	2,406	367	13	1	36	0	0.5	*	1.5	0.0
Biological, biomedical, and biosystems engineering	3,900	1,292	8,166	701	48	11	95	3	1.2	0.9	1.2	0.4
Chemical, petroleum, and chemical-related engineering	2,053	930	7,363	350	1	2	65	3	*	0.2	0.9	0.9
Civil, environmental, transportation and related engineering fields	7,426	4,304	6,792	1,086	6	0	27	0	0.1	0.0	0.4	0.0
Electrical, electronics, communications and computer engineering	18,540	9,155	15,204	2,366	120	67	82	29	0.6	0.7	0.5	1.2
Industrial, manufacturing, systems engineering and operations research	6,307	5,642	3,031	890	9	1	20	0	0.1	*	0.7	0.0
Mechanical engineering	9,930	5,788	10,306	1,234	78	74	79	5	0.8	1.3	0.8	0.4
Metallurgical, mining, materials and related engineering fields	1,662	856	4,509	395	6	4	51	0	0.4	0.5	1.1	0.0
Other engineering	6,217	6,059	6,286	1,472	65	59	47	18	1.0	1.0	0.7	1.2
Health	43,445	22,246	11,318	5,313	904	211	89	185	2.1	0.9	0.8	3.5
Clinical medicine	20,189	13,832	3,699	1,913	150	150	5	66	0.7	1.1	0.1	3.5
Other health	23,256	8,414	7,619	3,400	754	61	84	119	3.2	0.7	1.1	3.5
Fall 2020, all surveyed fields <sup>a</sup>	243,859	170,619	247,656	35,679	6,582	3,837	6,512	993	2.7	2.2	2.6	2.8
Science	155,502	112,402	175,039	21,703	4,867	2,712	5,558	558	3.1	2.4	3.2	2.6
Agricultural and veterinary sciences	3,731	2,756	3,540	773	64	52	40	6	1.7	1.9	1.1	0.8
Biological and biomedical sciences	26,473	13,447	51,107	3,798	618	383	1,650	108	2.3	2.8	3.2	2.8
Computer and information sciences	39,929	40,761	15,473	2,701	1,970	692	560	109	4.9	1.7	3.6	4.0
Geosciences, atmospheric sciences, and ocean sciences	3,649	1,628	5,807	708	90	58	216	16	2.5	3.6	3.7	2.3
Mathematics and statistics	11,622	6,662	12,419	1,268	124	96	316	36	1.1	1.4	2.5	2.8
Multidisciplinary and interdisciplinary studies	6,169	4,811	2,870	683	901	609	53	7	14.6	12.7	1.8	1.0
Natural resources and conservation	5,536	3,257	2,912	793	139	57	107	28	2.5	1.8	3.7	3.5
Physical sciences	3,686	2,589	33,952	2,389	91	48	1,065	27	2.5	1.9	3.1	1.1
Psychology	28,716	18,563	17,452	3,663	559	422	364	131	1.9	2.3	2.1	3.6

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	Full time	Part time	Full time	Part time	Full time	Part time	Full time	Part time	Full time	Part time	Full time	Part time
Social sciences	25,991	17,928	29,507	4,927	311	295	1,187	90	1.2	1.6	4.0	1.8
Engineering	49,179	37,271	62,061	9,218	640	740	765	149	1.3	2.0	1.2	1.6
Aerospace, aeronautical, and astronautical engineering	2,298	2,028	2,301	344	11	1	37	0	0.5	*	1.6	0.0
Biological, biomedical, and biosystems engineering	3,416	1,120	7,659	580	116	35	105	7	3.4	3.1	1.4	1.2
Chemical, petroleum, and chemical- related engineering	1,898	1,044	7,132	480	24	5	104	9	1.3	0.5	1.5	1.9
Civil, environmental, transportation and related engineering fields	6,487	4,332	6,374	1,111	31	26	48	5	0.5	0.6	0.8	0.5
Electrical, electronics, communications and computer engineering	15,329	9,983	15,174	2,546	262	328	209	54	1.7	3.3	1.4	2.1
Industrial, manufacturing, systems engineering and operations research	4,820	6,210	2,908	931	12	82	22	2	0.2	1.3	0.8	0.2
Mechanical engineering	8,461	5,844	10,219	1,258	132	218	94	42	1.6	3.7	0.9	3.3
Metallurgical, mining, materials and related engineering fields	1,566	733	4,497	385	18	29	58	3	1.1	4.0	1.3	0.8
Other engineering	4,904	5,977	5,797	1,583	34	16	88	27	0.7	0.3	1.5	1.7
Health	39,178	20,946	10,556	4,758	1,075	385	189	286	2.7	1.8	1.8	6.0
Clinical medicine	17,186	12,562	3,342	1,454	414	309	25	94	2.4	2.5	0.7	6.5
Other health	21,992	8,384	7,214	3,304	661	76	164	192	3.0	0.9	2.3	5.8
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	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

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	Full time	Part time	Full time	Part time	Full time	Part time	Full time	Part time	Full time	Part time	Full time	Part time
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	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

\* = value &lt; 0.05%.

nec = not elsewhere classified.

<sup>a</sup> Several field names changed in 2020; the field names listed in this table are the field names used in the Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS) collection and reporting for 2020. For a complete list of field names from 2017 to 2020, see <https://nces.nsf.gov/pubs/nsf21318/table/A-17>.

**Note(s):**

For more information on the mapping of GSS fields and codes, see technical table A-17. Several field names changed in 2020; the field names listed in 2020 reflect those field names used in the GSS collection and reporting for 2020. The field names listed in prior years reflect those field names used in the associated data collection years.

**Source(s):**

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