

TABLE A-7

**Imputation for nonresponse within graduate student totals, by field and type of graduate degree: 2020–22**

(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 2022, all surveyed fields	319,618	181,693	259,683	37,540	4,004	2,305	1,444	305	1.3	1.3	0.6	0.8
Science	208,749	123,234	183,443	22,740	2,864	1,870	1,347	206	1.4	1.5	0.7	0.9
Agricultural and veterinary sciences	4,143	2,806	3,892	755	19	15	15	10	0.5	0.5	0.4	1.3
Biological and biomedical sciences	27,987	15,075	55,630	4,008	430	262	231	18	1.5	1.7	0.4	0.4
Computer and information sciences	83,708	46,264	17,544	3,039	558	334	111	61	0.7	0.7	0.6	2.0
Geosciences, atmospheric sciences, and ocean sciences	3,621	1,565	6,126	658	34	13	0	0	0.9	0.8	0.0	0.0
Mathematics and statistics	14,239	6,559	12,359	1,230	78	100	0	0	0.5	1.5	0.0	0.0
Multidisciplinary and interdisciplinary sciences	9,767	7,164	3,281	733	25	29	322	0	0.3	0.4	9.8	0.0
Natural resources and conservation	6,010	3,797	3,151	804	27	24	48	4	0.4	0.6	1.5	0.5
Physical sciences	3,726	2,530	35,286	2,550	84	33	94	22	2.3	1.3	0.3	0.9
Psychology	27,861	20,460	17,335	3,786	1,392	725	517	82	5.0	3.5	3.0	2.2
Social sciences	27,687	17,014	28,839	5,177	217	335	9	9	0.8	2.0	*	0.2
Engineering	66,427	36,593	64,020	8,960	203	224	61	24	0.3	0.6	0.1	0.3
Aerospace, aeronautical, and astronautical engineering	2,937	2,326	2,483	349	0	0	0	0	0.0	0.0	0.0	0.0
Biological, biomedical, and biosystems engineering	3,834	1,343	8,582	683	0	0	0	0	0.0	0.0	0.0	0.0
Chemical, petroleum, and chemical-related engineering	2,099	912	7,221	369	0	0	0	0	0.0	0.0	0.0	0.0
Civil, environmental, transportation and related engineering fields	8,215	4,406	6,705	1,049	5	3	5	0	0.1	0.1	0.1	0.0
Electrical, electronics, communications and computer engineering	22,725	9,591	15,157	2,428	100	54	39	12	0.4	0.6	0.3	0.5
Industrial, manufacturing, systems engineering and operations research	6,920	5,659	2,902	954	2	0	2	0	*	0.0	0.1	0.0
Mechanical engineering	10,423	5,606	10,273	1,250	27	63	4	2	0.3	1.1	*	0.2
Metallurgical, mining, materials and related engineering fields	1,667	878	4,221	352	5	2	0	0	0.3	0.2	0.0	0.0
Other engineering	7,607	5,872	6,476	1,526	64	102	11	10	0.8	1.7	0.2	0.7
Health	44,442	21,866	12,220	5,840	937	211	36	75	2.1	1.0	0.3	1.3
Clinical medicine	19,519	13,732	3,696	2,270	177	87	0	0	0.9	0.6	0.0	0.0
Other health	24,923	8,134	8,524	3,570	760	124	36	75	3.0	1.5	0.4	2.1
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 sciences	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

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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
Engineering	58,790	36,336	64,063	8,861	346	219	502	58	0.6	0.6	0.8	0.7
Aerospace, aeronautical, and aeronautical 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 sciences	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
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 aeronautical 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

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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
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

\* = value &lt; 0.05%.

<sup>a</sup> For more information on the mapping of Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS) fields and codes, see technical table A-17.

**Note(s):**

Clinical medicine includes graduate students in public health and in medical clinical sciences and clinical and medical laboratory sciences. Graduate student data in this table include master's students in health sciences. For more information on the comparability of these counts to other data published by the National Center for Science and Engineering Statistics, see the "Technical Notes."

**Source(s):**

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