

Table A-8. Imputation for nonresponse within graduate student totals, by field and demographic characteristics, mechanism and source of support, and type of graduate degree: 2024

(Number and percent)

Characteristic	Total in survey				Number imputed				Percentage imputed			
	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
All graduate students	322,037	183,893	274,601	37,547	5,812	3,333	1,664	617	1.8	1.8	0.6	1.6
Science	217,779	129,690	194,145	22,753	4,160	2,478	1,362	506	1.9	1.9	0.7	2.2
Agricultural and veterinary sciences	4,425	2,548	4,359	685	41	31	15	28	0.9	1.2	0.3	4.1
Biological and biomedical sciences	31,105	15,556	58,675	3,682	766	507	470	38	2.5	3.3	0.8	1.0
Computer and information sciences	83,229	54,129	20,604	3,406	1,299	549	346	232	1.6	1.0	1.7	6.8
Geosciences, atmospheric, and ocean sciences	3,469	1,440	6,266	591	56	27	6	15	1.6	1.9	0.1	2.5
Mathematics and statistics	14,052	5,896	12,935	1,096	165	133	6	3	1.2	2.3	*	0.3
Multidisciplinary and interdisciplinary sciences	16,502	9,924	4,362	853	139	67	0	0	0.8	0.7	0.0	0.0
Natural resources and conservation	5,558	3,592	3,461	721	66	28	99	6	1.2	0.8	2.9	0.8
Physical sciences	3,644	2,364	37,071	2,258	159	54	72	33	4.4	2.3	0.2	1.5
Psychology	29,458	20,058	18,553	4,855	1,060	722	339	132	3.6	3.6	1.8	2.7
Social sciences	26,337	14,183	27,859	4,606	409	360	9	19	1.6	2.5	*	0.4
Engineering	63,860	35,711	67,740	8,701	655	352	176	33	1.0	1.0	0.3	0.4
Aerospace, aeronautical, and astronautical engineering	2,993	2,570	2,668	364	81	24	19	7	2.7	0.9	0.7	1.9
Biological, biomedical, and biosystems engineering	4,293	1,182	9,649	681	13	4	47	0	0.3	0.3	0.5	0.0
Chemical, petroleum, and chemical-related engineering	1,838	826	7,565	370	16	2	0	0	0.9	0.2	0.0	0.0
Civil, environmental, transportation and related engineering fields	7,336	4,024	6,971	928	84	46	0	0	1.1	1.1	0.0	0.0
Electrical, electronics, communications and computer engineering	21,690	9,151	15,553	2,221	224	110	59	15	1.0	1.2	0.4	0.7
Industrial, manufacturing, systems engineering and operations research	6,093	5,611	3,175	871	91	65	20	6	1.5	1.2	0.6	0.7
Mechanical engineering	9,748	5,388	10,695	1,163	66	45	0	0	0.7	0.8	0.0	0.0
Metallurgical, mining, materials and related engineering fields	1,552	951	4,501	357	3	2	0	0	0.2	0.2	0.0	0.0
Other engineering	8,317	6,008	6,963	1,746	77	54	31	5	0.9	0.9	0.4	0.3
Health	40,398	18,492	12,716	6,093	997	503	126	78	2.5	2.7	1.0	1.3
Clinical medicine	15,867	10,778	3,808	2,591	517	351	109	46	3.3	3.3	2.9	1.8
Other health	24,531	7,714	8,908	3,502	480	152	17	32	2.0	2.0	0.2	0.9
Sex												
Male	159,202	97,465	146,911	18,789	11,459	8,727	10,514	596	7.2	9.0	7.2	3.2
Female	162,835	86,428	127,690	18,758	13,016	9,354	9,606	848	8.0	10.8	7.5	4.5
U.S. citizens and permanent residents ^a												
Hispanic or Latino	28,882	22,960	19,911	3,153	1,042	748	519	67	3.6	3.3	2.6	2.1
Not Hispanic or Latino												
American Indian or Alaska Native	662	541	554	186	35	27	20	12	5.3	5.0	3.6	6.5
Asian	23,883	21,440	19,938	2,570	473	345	294	55	2.0	1.6	1.5	2.1
Black or African American	17,189	16,049	10,708	3,743	1,234	937	391	156	7.2	5.8	3.7	4.2
Native Hawaiian or Other Pacific Islander	235	284	160	45	6	7	7	5	2.6	2.5	4.4	11.1
White	84,954	75,188	86,814	16,367	2,480	1,984	1,414	308	2.9	2.6	1.6	1.9

Table A-8. Imputation for nonresponse within graduate student totals, by field and demographic characteristics, mechanism and source of support, and type of graduate degree: 2024

(Number and percent)

Characteristic	Total in survey				Number imputed				Percentage imputed			
	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
More than one race	7,369	5,419	7,154	961	196	115	122	29	2.7	2.1	1.7	3.0
Unknown ethnicity and race	8,008	9,152	7,183	1,847	485	431	260	71	6.1	4.7	3.6	3.8
Temporary visa holders	150,855	32,860	122,179	8,675	7,016	2,334	2,312	122	4.7	7.1	1.9	1.4
All full-time students	322,037	na	274,601	na	5,812	na	1,664	na	1.8	na	0.6	na
Mechanism of support												
Fellowships	9,494	na	41,065	na	1,055	na	2,705	na	11.1	na	6.6	na
Research assistantships	22,510	na	114,072	na	2,123	na	6,574	na	9.4	na	5.8	na
Teaching assistantships	22,115	na	64,466	na	2,633	na	5,471	na	11.9	na	8.5	na
Traineeships	2,438	na	9,675	na	178	na	687	na	7.3	na	7.1	na
Other types of support	265,480	na	45,323	na	33,227	na	4,893	na	12.5	na	10.8	na
Source of support												
Federal												
DOD	3,207	na	6,532	na	552	na	413	na	17.2	na	6.3	na
DOE	596	na	5,320	na	38	na	211	na	6.4	na	4.0	na
HHS												
NIH	1,012	na	22,824	na	103	na	1,195	na	10.2	na	5.2	na
Other	582	na	2,269	na	54	na	101	na	9.3	na	4.5	na
NASA	319	na	1,719	na	18	na	105	na	5.6	na	6.1	na
NSF	2,126	na	19,229	na	207	na	1,161	na	9.7	na	6.0	na
USDA	1,309	na	2,487	na	79	na	62	na	6.0	na	2.5	na
Other federal	6,875	na	7,556	na	844	na	565	na	12.3	na	7.5	na
Domestic	6,013	na	15,406	na	684	na	842	na	11.4	na	5.5	na
Foreign	1,010	na	2,366	na	178	na	134	na	17.6	na	5.7	na
Institutional	77,974	na	164,812	na	9,987	na	11,923	na	12.8	na	7.2	na
Self-support	221,014	na	24,081	na	26,961	na	2,894	na	12.2	na	12.0	na

* = value < 0.05%; na = not applicable.

DOD = Department of Defense; DOE = Department of Energy; HHS = Department of Health and Human Services; NASA = National Aeronautics and Space Administration; NIH = National Institutes of Health; NSF = National Science Foundation; USDA = Department of Agriculture.

^a Ethnicity and race data are available only for U.S. citizens and permanent residents.**Note(s):**

The percentage imputed calculated is the number imputed divided by total in survey multiplied by 100. This is a different measure than the unit imputation rate presented in table A-7. 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 mapping of Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS) fields and codes, see table A-6. 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, 2024.