

TABLE 3-3

**Detailed primary source of federal support for full-time graduate students in science, engineering, and health, by broad field: 2023**

(Number and percent)

Broad field	Total	DOD		DOE		HHS: NIH		HHS: Other HHS		NASA		NSF		USDA		Other	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
All graduate students	82,764	9,171	11.1	5,757	7.0	23,172	28.0	3,314	4.0	2,178	2.6	21,209	25.6	3,332	4.0	14,631	17.7
Science	53,353	3,669	6.9	2,892	5.4	18,374	34.4	1,712	3.2	1,362	2.6	13,219	24.8	2,852	5.3	9,273	17.4
Agricultural and veterinary sciences	1,967	28	1.4	48	2.4	120	6.1	116	5.9	8	0.4	141	7.2	1,206	61.3	300	15.3
Biological and biomedical sciences	21,445	462	2.2	211	1.0	14,648	68.3	811	3.8	76	0.4	2,377	11.1	878	4.1	1,982	9.2
Computer and information sciences	6,387	1,240	19.4	195	3.1	434	6.8	149	2.3	95	1.5	2,989	46.8	99	1.6	1,186	18.6
Geosciences, atmospheric, and ocean sciences	2,607	148	5.7	118	4.5	16	0.6	10	0.4	431	16.5	1,214	46.6	33	1.3	637	24.4
Mathematics and statistics	1,633	137	8.4	35	2.1	202	12.4	43	2.6	20	1.2	996	61.0	16	1.0	184	11.3
Multidisciplinary and interdisciplinary sciences	1,002	53	5.3	49	4.9	208	20.8	14	1.4	25	2.5	201	20.1	17	1.7	435	43.4
Natural resources and conservation	1,519	46	3.0	66	4.3	58	3.8	79	5.2	54	3.6	304	20.0	322	21.2	590	38.8
Physical sciences	10,449	788	7.5	2,144	20.5	1,749	16.7	198	1.9	615	5.9	4,017	38.4	42	0.4	896	8.6
Psychology	3,264	206	6.3	2	0.1	766	23.5	204	6.3	5	0.2	371	11.4	18	0.6	1,692	51.8
Social sciences	3,080	561	18.2	24	0.8	173	5.6	88	2.9	33	1.1	609	19.8	221	7.2	1,371	44.5
Engineering	25,054	5,140	20.5	2,857	11.4	3,273	13.1	883	3.5	816	3.3	7,888	31.5	459	1.8	3,738	14.9
Aerospace, aeronautical, and astronautical engineering	1,443	652	45.2	86	6.0	5	0.3	1	0.1	231	16.0	205	14.2	0	0.0	263	18.2
Biological, biomedical, and biosystems engineering	3,548	187	5.3	20	0.6	2,001	56.4	261	7.4	9	0.3	686	19.3	64	1.8	320	9.0
Chemical, petroleum, and chemical-related engineering	2,494	239	9.6	488	19.6	294	11.8	58	2.3	37	1.5	1,064	42.7	20	0.8	294	11.8
Civil, environmental, transportation and related engineering fields	2,349	305	13.0	204	8.7	34	1.4	102	4.3	84	3.6	769	32.7	55	2.3	796	33.9
Electrical, electronics, communications and computer engineering	5,607	1,503	26.8	462	8.2	411	7.3	108	1.9	134	2.4	2,216	39.5	67	1.2	706	12.6
Industrial, manufacturing, systems engineering and operations research	1,099	413	37.6	43	3.9	32	2.9	62	5.6	20	1.8	329	29.9	9	0.8	191	17.4
Mechanical engineering	4,254	1,072	25.2	593	13.9	261	6.1	90	2.1	191	4.5	1,417	33.3	50	1.2	580	13.6
Metallurgical, mining, materials and related engineering fields	1,785	375	21.0	399	22.4	50	2.8	82	4.6	52	2.9	606	33.9	13	0.7	208	11.7
Other engineering	2,475	394	15.9	562	22.7	185	7.5	119	4.8	58	2.3	596	24.1	181	7.3	380	15.4
Health	4,357	362	8.3	8	0.2	1,525	35.0	719	16.5	0	0.0	102	2.3	21	0.5	1,620	37.2
Clinical medicine <sup>a</sup>	1,947	100	5.1	8	0.4	532	27.3	429	22.0	0	0.0	36	1.8	16	0.8	826	42.4
Other health	2,410	262	10.9	0	0.0	993	41.2	290	12.0	0	0.0	66	2.7	5	0.2	794	32.9
Master's students	15,602	2,815	18.0	550	3.5	1,106	7.1	750	4.8	307	2.0	2,072	13.3	1,187	7.6	6,815	43.7
Science	9,485	1,212	12.8	170	1.8	704	7.4	275	2.9	163	1.7	1,354	14.3	1,066	11.2	4,541	47.9
Agricultural and veterinary sciences	734	2	0.3	10	1.4	14	1.9	37	5.0	3	0.4	37	5.0	496	67.6	135	18.4
Biological and biomedical sciences	1,928	93	4.8	26	1.3	453	23.5	90	4.7	8	0.4	236	12.2	243	12.6	779	40.4
Computer and information sciences	1,855	405	21.8	51	2.7	113	6.1	45	2.4	49	2.6	432	23.3	48	2.6	712	38.4
Geosciences, atmospheric, and ocean sciences	590	43	7.3	24	4.1	0	0.0	5	0.8	54	9.2	237	40.2	7	1.2	220	37.3
Mathematics and statistics	217	36	16.6	1	0.5	34	15.7	4	1.8	5	2.3	60	27.6	2	0.9	75	34.6
Multidisciplinary and interdisciplinary sciences	474	34	7.2	2	0.4	19	4.0	3	0.6	5	1.1	52	11.0	4	0.8	355	74.9
Natural resources and conservation	760	28	3.7	24	3.2	8	1.1	38	5.0	11	1.4	110	14.5	175	23.0	366	48.2
Physical sciences	319	74	23.2	26	8.2	18	5.6	4	1.3	22	6.9	78	24.5	6	1.9	91	28.5

TABLE 3-3

**Detailed primary source of federal support for full-time graduate students in science, engineering, and health, by broad field: 2023**

(Number and percent)

Broad field	Total	DOD		DOE		HHS: NIH		HHS: Other HHS		NASA		NSF		USDA		Other	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Psychology	1,139	82	7.2	0	0.0	35	3.1	28	2.5	0	0.0	19	1.7	7	0.6	968	85.0
Social sciences	1,469	415	28.3	6	0.4	10	0.7	21	1.4	6	0.4	93	6.3	78	5.3	840	57.2
Engineering	3,905	1,338	34.3	372	9.5	138	3.5	124	3.2	144	3.7	689	17.6	108	2.8	992	25.4
Aerospace, aeronautical, and astronautical engineering	444	256	57.7	20	4.5	1	0.2	0	0.0	44	9.9	24	5.4	0	0.0	99	22.3
Biological, biomedical, and biosystems engineering	183	21	11.5	1	0.5	55	30.1	9	4.9	2	1.1	31	16.9	15	8.2	49	26.8
Chemical, petroleum, and chemical-related engineering	102	13	12.7	21	20.6	9	8.8	3	2.9	2	2.0	29	28.4	3	2.9	22	21.6
Civil, environmental, transportation and related engineering fields	527	88	16.7	35	6.6	5	0.9	25	4.7	14	2.7	104	19.7	16	3.0	240	45.5
Electrical, electronics, communications and computer engineering	834	285	34.2	67	8.0	30	3.6	13	1.6	32	3.8	228	27.3	8	1.0	171	20.5
Industrial, manufacturing, systems engineering and operations research	426	250	58.7	12	2.8	5	1.2	22	5.2	3	0.7	33	7.7	4	0.9	97	22.8
Mechanical engineering	786	266	33.8	112	14.2	19	2.4	23	2.9	34	4.3	163	20.7	11	1.4	158	20.1
Metallurgical, mining, materials and related engineering fields	169	61	36.1	32	18.9	2	1.2	12	7.1	7	4.1	28	16.6	0	0.0	27	16.0
Other engineering	434	98	22.6	72	16.6	12	2.8	17	3.9	6	1.4	49	11.3	51	11.8	129	29.7
Health	2,212	265	12.0	8	0.4	264	11.9	351	15.9	0	0.0	29	1.3	13	0.6	1,282	58.0
Clinical medicine <sup>a</sup>	1,200	71	5.9	8	0.7	145	12.1	266	22.2	0	0.0	15	1.3	9	0.8	686	57.2
Other health	1,012	194	19.2	0	0.0	119	11.8	85	8.4	0	0.0	14	1.4	4	0.4	596	58.9
Doctoral students	67,162	6,356	9.5	5,207	7.8	22,066	32.9	2,564	3.8	1,871	2.8	19,137	28.5	2,145	3.2	7,816	11.6
Science	43,868	2,457	5.6	2,722	6.2	17,670	40.3	1,437	3.3	1,199	2.7	11,865	27.0	1,786	4.1	4,732	10.8
Agricultural and veterinary sciences	1,233	26	2.1	38	3.1	106	8.6	79	6.4	5	0.4	104	8.4	710	57.6	165	13.4
Biological and biomedical sciences	19,517	369	1.9	185	0.9	14,195	72.7	721	3.7	68	0.3	2,141	11.0	635	3.3	1,203	6.2
Computer and information sciences	4,532	835	18.4	144	3.2	321	7.1	104	2.3	46	1.0	2,557	56.4	51	1.1	474	10.5
Geosciences, atmospheric, and ocean sciences	2,017	105	5.2	94	4.7	16	0.8	5	0.2	377	18.7	977	48.4	26	1.3	417	20.7
Mathematics and statistics	1,416	101	7.1	34	2.4	168	11.9	39	2.8	15	1.1	936	66.1	14	1.0	109	7.7
Multidisciplinary and interdisciplinary sciences	528	19	3.6	47	8.9	189	35.8	11	2.1	20	3.8	149	28.2	13	2.5	80	15.2
Natural resources and conservation	759	18	2.4	42	5.5	50	6.6	41	5.4	43	5.7	194	25.6	147	19.4	224	29.5
Physical sciences	10,130	714	7.0	2,118	20.9	1,731	17.1	194	1.9	593	5.9	3,939	38.9	36	0.4	805	7.9
Psychology	2,125	124	5.8	2	0.1	731	34.4	176	8.3	5	0.2	352	16.6	11	0.5	724	34.1
Social sciences	1,611	146	9.1	18	1.1	163	10.1	67	4.2	27	1.7	516	32.0	143	8.9	531	33.0
Engineering	21,149	3,802	18.0	2,485	11.7	3,135	14.8	759	3.6	672	3.2	7,199	34.0	351	1.7	2,746	13.0
Aerospace, aeronautical, and astronautical engineering	999	396	39.6	66	6.6	4	0.4	1	0.1	187	18.7	181	18.1	0	0.0	164	16.4
Biological, biomedical, and biosystems engineering	3,365	166	4.9	19	0.6	1,946	57.8	252	7.5	7	0.2	655	19.5	49	1.5	271	8.1
Chemical, petroleum, and chemical-related engineering	2,392	226	9.4	467	19.5	285	11.9	55	2.3	35	1.5	1,035	43.3	17	0.7	272	11.4
Civil, environmental, transportation and related engineering fields	1,822	217	11.9	169	9.3	29	1.6	77	4.2	70	3.8	665	36.5	39	2.1	556	30.5
Electrical, electronics, communications and computer engineering	4,773	1,218	25.5	395	8.3	381	8.0	95	2.0	102	2.1	1,988	41.7	59	1.2	535	11.2
Industrial, manufacturing, systems engineering and operations research	673	163	24.2	31	4.6	27	4.0	40	5.9	17	2.5	296	44.0	5	0.7	94	14.0
Mechanical engineering	3,468	806	23.2	481	13.9	242	7.0	67	1.9	157	4.5	1,254	36.2	39	1.1	422	12.2

TABLE 3-3

**Detailed primary source of federal support for full-time graduate students in science, engineering, and health, by broad field: 2023**

(Number and percent)

Broad field	Total	DOD		DOE		HHS: NIH		HHS: Other HHS		NASA		NSF		USDA		Other	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Metallurgical, mining, materials and related engineering fields	1,616	314	19.4	367	22.7	48	3.0	70	4.3	45	2.8	578	35.8	13	0.8	181	11.2
Other engineering	2,041	296	14.5	490	24.0	173	8.5	102	5.0	52	2.5	547	26.8	130	6.4	251	12.3
Health	2,145	97	4.5	0	0.0	1,261	58.8	368	17.2	0	0.0	73	3.4	8	0.4	338	15.8
Clinical medicine <sup>a</sup>	747	29	3.9	0	0.0	387	51.8	163	21.8	0	0.0	21	2.8	7	0.9	140	18.7
Other health	1,398	68	4.9	0	0.0	874	62.5	205	14.7	0	0.0	52	3.7	1	0.1	198	14.2

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.

<sup>a</sup> Clinical medicine includes graduate students in public health and in medical clinical sciences and clinical and medical laboratory sciences.

**Note(s):**

Percentages may not add to total because of rounding. For more information on the mapping of Survey of Graduate Students and Postdoctorates in Science and Engineering fields and codes, see technical table A-17. 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, 2023.