

TABLE 3-3

Detailed primary source of federal support for full-time graduate students in science, engineering, and health, by broad field: 2022

(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	81,773	9,093	11.1	5,870	7.2	23,200	28.4	3,523	4.3	2,174	2.7	21,136	25.8	3,307	4.0	13,470	16.5
Science	52,774	3,676	7.0	2,986	5.7	18,254	34.6	2,049	3.9	1,284	2.4	13,324	25.2	2,885	5.5	8,316	15.8
Agricultural and veterinary sciences	1,907	20	1.0	48	2.5	123	6.4	117	6.1	5	0.3	160	8.4	1,172	61.5	262	13.7
Biological and biomedical sciences	21,244	442	2.1	196	0.9	14,556	68.5	1,005	4.7	69	0.3	2,408	11.3	800	3.8	1,768	8.3
Computer and information sciences	6,323	1,287	20.4	182	2.9	380	6.0	166	2.6	71	1.1	2,909	46.0	103	1.6	1,225	19.4
Geosciences, atmospheric sciences, and ocean sciences	2,726	179	6.6	120	4.4	26	1.0	18	0.7	460	16.9	1,246	45.7	39	1.4	638	23.4
Mathematics and statistics	1,572	133	8.5	36	2.3	205	13.0	42	2.7	25	1.6	970	61.7	12	0.8	149	9.5
Multidisciplinary and interdisciplinary sciences	944	59	6.3	52	5.5	214	22.7	26	2.8	18	1.9	192	20.3	32	3.4	351	37.2
Natural resources and conservation	1,635	52	3.2	59	3.6	57	3.5	72	4.4	43	2.6	298	18.2	397	24.3	657	40.2
Physical sciences	10,516	807	7.7	2,273	21.6	1,732	16.5	268	2.5	555	5.3	4,095	38.9	31	0.3	755	7.2
Psychology	3,113	216	6.9	7	0.2	816	26.2	252	8.1	0	0.0	395	12.7	12	0.4	1,415	45.5
Social sciences	2,794	481	17.2	13	0.5	145	5.2	83	3.0	38	1.4	651	23.3	287	10.3	1,096	39.2
Engineering	24,183	5,041	20.8	2,873	11.9	3,276	13.5	871	3.6	886	3.7	7,670	31.7	385	1.6	3,181	13.2
Aerospace, aeronautical, and astronautical engineering	1,244	581	46.7	65	5.2	3	0.2	1	0.1	210	16.9	169	13.6	1	0.1	214	17.2
Biological, biomedical, and biosystems engineering	3,463	187	5.4	22	0.6	2,088	60.3	169	4.9	9	0.3	673	19.4	57	1.6	258	7.5
Chemical, petroleum, and chemical-related engineering	2,419	227	9.4	507	21.0	294	12.2	55	2.3	49	2.0	997	41.2	34	1.4	256	10.6
Civil, environmental, transportation and related engineering fields	2,239	247	11.0	213	9.5	48	2.1	106	4.7	97	4.3	765	34.2	62	2.8	701	31.3
Electrical, electronics, communications and computer engineering	5,621	1,591	28.3	469	8.3	380	6.8	138	2.5	172	3.1	2,247	40.0	54	1.0	570	10.1
Industrial, manufacturing, systems engineering and operations research	1,070	429	40.1	53	5.0	38	3.6	49	4.6	22	2.1	293	27.4	8	0.7	178	16.6
Mechanical engineering	4,117	1,073	26.1	604	14.7	229	5.6	95	2.3	228	5.5	1,356	32.9	28	0.7	504	12.2
Metallurgical, mining, materials and related engineering fields	1,697	343	20.2	400	23.6	37	2.2	90	5.3	49	2.9	600	35.4	11	0.6	167	9.8
Other engineering	2,313	363	15.7	540	23.3	159	6.9	168	7.3	50	2.2	570	24.6	130	5.6	333	14.4
Health	4,816	376	7.8	11	0.2	1,670	34.7	603	12.5	4	0.1	142	2.9	37	0.8	1,973	41.0
Clinical medicine ^a	1,828	98	5.4	10	0.5	594	32.5	374	20.5	3	0.2	44	2.4	18	1.0	687	37.6
Other health	2,988	278	9.3	1	*	1,076	36.0	229	7.7	1	*	98	3.3	19	0.6	1,286	43.0
Master's students	15,823	2,801	17.7	554	3.5	1,107	7.0	630	4.0	322	2.0	2,119	13.4	1,315	8.3	6,975	44.1
Science	9,442	1,167	12.4	165	1.7	689	7.3	252	2.7	141	1.5	1,375	14.6	1,193	12.6	4,460	47.2
Agricultural and veterinary sciences	790	4	0.5	8	1.0	18	2.3	41	5.2	2	0.3	47	5.9	534	67.6	136	17.2
Biological and biomedical sciences	1,896	81	4.3	24	1.3	481	25.4	57	3.0	10	0.5	228	12.0	231	12.2	784	41.4
Computer and information sciences	1,870	408	21.8	44	2.4	69	3.7	43	2.3	33	1.8	410	21.9	58	3.1	805	43.0
Geosciences, atmospheric sciences, and ocean sciences	686	58	8.5	34	5.0	3	0.4	4	0.6	53	7.7	248	36.2	9	1.3	277	40.4
Mathematics and statistics	205	38	18.5	2	1.0	20	9.8	4	2.0	6	2.9	64	31.2	3	1.5	68	33.2
Multidisciplinary and interdisciplinary sciences	413	32	7.7	4	1.0	19	4.6	1	0.2	4	1.0	47	11.4	17	4.1	289	70.0
Natural resources and conservation	879	29	3.3	21	2.4	15	1.7	38	4.3	9	1.0	108	12.3	219	24.9	440	50.1
Physical sciences	323	68	21.1	24	7.4	23	7.1	3	0.9	15	4.6	101	31.3	5	1.5	84	26.0

TABLE 3-3

Detailed primary source of federal support for full-time graduate students in science, engineering, and health, by broad field: 2022

(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	1,072	67	6.3	0	0.0	36	3.4	41	3.8	0	0.0	42	3.9	4	0.4	882	82.3
Social sciences	1,308	382	29.2	4	0.3	5	0.4	20	1.5	9	0.7	80	6.1	113	8.6	695	53.1
Engineering	3,981	1,362	34.2	383	9.6	138	3.5	108	2.7	181	4.5	705	17.7	106	2.7	998	25.1
Aerospace, aeronautical, and astronautical engineering	404	222	55.0	17	4.2	0	0.0	0	0.0	49	12.1	23	5.7	0	0.0	93	23.0
Biological, biomedical, and biosystems engineering	219	19	8.7	2	0.9	62	28.3	6	2.7	2	0.9	28	12.8	16	7.3	84	38.4
Chemical, petroleum, and chemical-related engineering	92	9	9.8	23	25.0	0	0.0	1	1.1	6	6.5	27	29.3	5	5.4	21	22.8
Civil, environmental, transportation and related engineering fields	541	75	13.9	36	6.7	9	1.7	29	5.4	16	3.0	119	22.0	21	3.9	236	43.6
Electrical, electronics, communications and computer engineering	820	296	36.1	56	6.8	31	3.8	15	1.8	30	3.7	222	27.1	11	1.3	159	19.4
Industrial, manufacturing, systems engineering and operations research	486	305	62.8	20	4.1	6	1.2	9	1.9	2	0.4	29	6.0	5	1.0	110	22.6
Mechanical engineering	830	285	34.3	112	13.5	25	3.0	24	2.9	58	7.0	165	19.9	5	0.6	156	18.8
Metallurgical, mining, materials and related engineering fields	191	57	29.8	44	23.0	0	0.0	8	4.2	8	4.2	44	23.0	1	0.5	29	15.2
Other engineering	398	94	23.6	73	18.3	5	1.3	16	4.0	10	2.5	48	12.1	42	10.6	110	27.6
Health	2,400	272	11.3	6	0.3	280	11.7	270	11.3	0	0.0	39	1.6	16	0.7	1,517	63.2
Clinical medicine ^a	1,058	73	6.9	6	0.6	187	17.7	200	18.9	0	0.0	11	1.0	9	0.9	572	54.1
Other health	1,342	199	14.8	0	0.0	93	6.9	70	5.2	0	0.0	28	2.1	7	0.5	945	70.4
Doctoral students	65,950	6,292	9.5	5,316	8.1	22,093	33.5	2,893	4.4	1,852	2.8	19,017	28.8	1,992	3.0	6,495	9.8
Science	43,332	2,509	5.8	2,821	6.5	17,565	40.5	1,797	4.1	1,143	2.6	11,949	27.6	1,692	3.9	3,856	8.9
Agricultural and veterinary sciences	1,117	16	1.4	40	3.6	105	9.4	76	6.8	3	0.3	113	10.1	638	57.1	126	11.3
Biological and biomedical sciences	19,348	361	1.9	172	0.9	14,075	72.7	948	4.9	59	0.3	2,180	11.3	569	2.9	984	5.1
Computer and information sciences	4,453	879	19.7	138	3.1	311	7.0	123	2.8	38	0.9	2,499	56.1	45	1.0	420	9.4
Geosciences, atmospheric sciences, and ocean sciences	2,040	121	5.9	86	4.2	23	1.1	14	0.7	407	20.0	998	48.9	30	1.5	361	17.7
Mathematics and statistics	1,367	95	6.9	34	2.5	185	13.5	38	2.8	19	1.4	906	66.3	9	0.7	81	5.9
Multidisciplinary and interdisciplinary sciences	531	27	5.1	48	9.0	195	36.7	25	4.7	14	2.6	145	27.3	15	2.8	62	11.7
Natural resources and conservation	756	23	3.0	38	5.0	42	5.6	34	4.5	34	4.5	190	25.1	178	23.5	217	28.7
Physical sciences	10,193	739	7.3	2,249	22.1	1,709	16.8	265	2.6	540	5.3	3,994	39.2	26	0.3	671	6.6
Psychology	2,041	149	7.3	7	0.3	780	38.2	211	10.3	0	0.0	353	17.3	8	0.4	533	26.1
Social sciences	1,486	99	6.7	9	0.6	140	9.4	63	4.2	29	2.0	571	38.4	174	11.7	401	27.0
Engineering	20,202	3,679	18.2	2,490	12.3	3,138	15.5	763	3.8	705	3.5	6,965	34.5	279	1.4	2,183	10.8
Aerospace, aeronautical, and astronautical engineering	840	359	42.7	48	5.7	3	0.4	1	0.1	161	19.2	146	17.4	1	0.1	121	14.4
Biological, biomedical, and biosystems engineering	3,244	168	5.2	20	0.6	2,026	62.5	163	5.0	7	0.2	645	19.9	41	1.3	174	5.4
Chemical, petroleum, and chemical-related engineering	2,327	218	9.4	484	20.8	294	12.6	54	2.3	43	1.8	970	41.7	29	1.2	235	10.1
Civil, environmental, transportation and related engineering fields	1,698	172	10.1	177	10.4	39	2.3	77	4.5	81	4.8	646	38.0	41	2.4	465	27.4
Electrical, electronics, communications and computer engineering	4,801	1,295	27.0	413	8.6	349	7.3	123	2.6	142	3.0	2,025	42.2	43	0.9	411	8.6

TABLE 3-3

Detailed primary source of federal support for full-time graduate students in science, engineering, and health, by broad field: 2022

(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
Industrial, manufacturing, systems engineering and operations research	584	124	21.2	33	5.7	32	5.5	40	6.8	20	3.4	264	45.2	3	0.5	68	11.6
Mechanical engineering	3,287	788	24.0	492	15.0	204	6.2	71	2.2	170	5.2	1,191	36.2	23	0.7	348	10.6
Metallurgical, mining, materials and related engineering fields	1,506	286	19.0	356	23.6	37	2.5	82	5.4	41	2.7	556	36.9	10	0.7	138	9.2
Other engineering	1,915	269	14.0	467	24.4	154	8.0	152	7.9	40	2.1	522	27.3	88	4.6	223	11.6
Health	2,416	104	4.3	5	0.2	1,390	57.5	333	13.8	4	0.2	103	4.3	21	0.9	456	18.9
Clinical medicine ^a	770	25	3.2	4	0.5	407	52.9	174	22.6	3	0.4	33	4.3	9	1.2	115	14.9
Other health	1,646	79	4.8	1	0.1	983	59.7	159	9.7	1	0.1	70	4.3	12	0.7	341	20.7

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.

* = value < 0.05%.

^a 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, 2022.