

Table 2-9. Graduate students in science, engineering, and health broad fields, by degree program, citizenship, ethnicity, and race: 2024

(Number and percent)

Broad field	Total		U.S. citizens and permanent residents																	Temporary visa holders	
			Hispanic or Latino		Not Hispanic or Latino										Unknown ethnicity and race						
					American Indian or Alaska Native		Asian		Black or African American		Native Hawaiian or Other Pacific Islander		White				More than one race				
Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
All graduate students	818,078	100.0	74,906	100.0	1,943	100.0	67,831	100.0	47,689	100.0	724	100.0	263,323	100.0	20,903	100.0	26,190	100.0	314,569	100.0	
Science	564,367	69.0	52,696	70.3	1,375	70.8	46,353	68.3	33,710	70.7	527	72.8	182,813	69.4	14,590	69.8	18,161	69.3	214,142	68.1	
Agricultural and veterinary sciences	12,017	1.5	973	1.3	41	2.1	361	0.5	452	0.9	11	1.5	5,325	2.0	261	1.2	237	0.9	4,356	1.4	
Biological and biomedical sciences	109,018	13.3	11,600	15.5	280	14.4	11,000	16.2	6,841	14.3	104	14.4	43,450	16.5	3,587	17.2	3,480	13.3	28,676	9.1	
Computer and information sciences	161,368	19.7	7,153	9.5	160	8.2	17,223	25.4	7,165	15.0	95	13.1	25,594	9.7	2,467	11.8	4,975	19.0	96,536	30.7	
Geosciences, atmospheric, and ocean sciences	11,766	1.4	1,161	1.5	31	1.6	467	0.7	344	0.7	7	1.0	6,189	2.4	462	2.2	299	1.1	2,806	0.9	
Mathematics and statistics	33,979	4.2	2,023	2.7	37	1.9	2,723	4.0	787	1.7	17	2.3	9,317	3.5	674	3.2	879	3.4	17,522	5.6	
Multidisciplinary and interdisciplinary sciences	31,641	3.9	2,240	3.0	47	2.4	3,137	4.6	1,705	3.6	26	3.6	8,378	3.2	705	3.4	1,021	3.9	14,382	4.6	
Natural resources and conservation	13,332	1.6	1,248	1.7	115	5.9	443	0.7	484	1.0	23	3.2	7,768	2.9	468	2.2	315	1.2	2,468	0.8	
Physical sciences	45,337	5.5	3,362	4.5	56	2.9	3,024	4.5	1,150	2.4	16	2.2	16,611	6.3	1,161	5.6	1,061	4.1	18,896	6.0	
Psychology	72,924	8.9	14,722	19.7	282	14.5	4,219	6.2	8,477	17.8	135	18.6	32,793	12.5	2,646	12.7	3,358	12.8	6,292	2.0	
Social sciences	72,985	8.9	8,214	11.0	326	16.8	3,756	5.5	6,305	13.2	93	12.8	27,388	10.4	2,159	10.3	2,536	9.7	22,208	7.1	
Engineering	176,012	21.5	11,516	15.4	234	12.0	14,474	21.3	4,914	10.3	104	14.4	47,145	17.9	3,838	18.4	4,506	17.2	89,281	28.4	
Aerospace, aeronautical, and astronautical engineering	8,595	1.1	862	1.2	20	1.0	967	1.4	172	0.4	9	1.2	3,987	1.5	323	1.5	239	0.9	2,016	0.6	
Biological, biomedical, and biosystems engineering	15,805	1.9	1,327	1.8	21	1.1	2,006	3.0	562	1.2	13	1.8	4,919	1.9	487	2.3	579	2.2	5,891	1.9	
Chemical, petroleum, and chemical-related engineering	10,599	1.3	552	0.7	13	0.7	948	1.4	241	0.5	3	0.4	2,746	1.0	195	0.9	212	0.8	5,689	1.8	
Civil, environmental, transportation and related engineering fields	19,259	2.4	1,458	1.9	36	1.9	1,077	1.6	485	1.0	16	2.2	5,020	1.9	382	1.8	322	1.2	10,463	3.3	
Electrical, electronics, communications and computer engineering	48,615	5.9	2,332	3.1	38	2.0	4,212	6.2	1,112	2.3	30	4.1	8,805	3.3	814	3.9	1,118	4.3	30,154	9.6	
Industrial, manufacturing, systems engineering and operations research	15,750	1.9	1,205	1.6	15	0.8	1,027	1.5	658	1.4	5	0.7	4,139	1.6	270	1.3	614	2.3	7,817	2.5	
Mechanical engineering	26,994	3.3	2,019	2.7	41	2.1	2,134	3.1	587	1.2	11	1.5	8,126	3.1	669	3.2	616	2.4	12,791	4.1	
Metallurgical, mining, materials and related engineering fields	7,361	0.9	547	0.7	12	0.6	587	0.9	177	0.4	5	0.7	2,303	0.9	196	0.9	161	0.6	3,373	1.1	
Other engineering	23,034	2.8	1,214	1.6	38	2.0	1,516	2.2	920	1.9	12	1.7	7,100	2.7	502	2.4	645	2.5	11,087	3.5	
Health	77,699	9.5	10,694	14.3	334	17.2	7,004	10.3	9,065	19.0	93	12.8	33,365	12.7	2,475	11.8	3,523	13.5	11,146	3.5	
Clinical medicine ^a	33,044	4.0	4,618	6.2	226	11.6	3,744	5.5	5,337	11.2	55	7.6	12,304	4.7	1,219	5.8	1,602	6.1	3,939	1.3	
Other health	44,655	5.5	6,076	8.1	108	5.6	3,260	4.8	3,728	7.8	38	5.2	21,061	8.0	1,256	6.0	1,921	7.3	7,207	2.3	
Master's students	505,930	61.8	51,842	69.2	1,203	61.9	45,323	66.8	33,238	69.7	519	71.7	160,142	60.8	12,788	61.2	17,160	65.5	183,715	58.4	
Science	347,469	42.5	34,942	46.6	800	41.2	30,698	45.3	23,412	49.1	376	51.9	105,048	39.9	8,504	40.7	11,584	44.2	132,105	42.0	
Agricultural and veterinary sciences	6,973	0.9	728	1.0	31	1.6	220	0.3	343	0.7	10	1.4	3,609	1.4	180	0.9	157	0.6	1,695	0.5	
Biological and biomedical sciences	46,661	5.7	5,479	7.3	147	7.6	5,073	7.5	4,236	8.9	53	7.3	18,046	6.9	1,560	7.5	1,754	6.7	10,313	3.3	
Computer and information sciences	137,358	16.8	6,424	8.6	128	6.6	15,230	22.5	6,267	13.1	83	11.5	21,332	8.1	2,078	9.9	4,207	16.1	81,609	25.9	
Geosciences, atmospheric, and ocean sciences	4,909	0.6	611	0.8	17	0.9	168	0.2	164	0.3	2	0.3	3,028	1.1	203	1.0	127	0.5	589	0.2	
Mathematics and statistics	19,948	2.4	1,306	1.7	30	1.5	1,679	2.5	571	1.2	12	1.7	5,240	2.0	388	1.9	519	2.0	10,203	3.2	
Multidisciplinary and interdisciplinary sciences	26,426	3.2	1,844	2.5	35	1.8	2,752	4.1	1,432	3.0	23	3.2	6,521	2.5	552	2.6	865	3.3	12,402	3.9	
Natural resources and conservation	9,150	1.1	943	1.3	69	3.6	297	0.4	308	0.6	20	2.8	5,786	2.2	363	1.7	200	0.8	1,164	0.4	

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Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent		
Physical sciences	6,008	0.7	729	1.0	7	0.4	471	0.7	298	0.6	5	0.7	2,524	1.0	217	1.0	197	0.8	1,560	0.5	
Psychology	49,516	6.1	11,350	15.2	188	9.7	2,709	4.0	5,732	12.0	106	14.6	22,176	8.4	1,688	8.1	2,177	8.3	3,390	1.1	
Social sciences	40,520	5.0	5,528	7.4	148	7.6	2,099	3.1	4,061	8.5	62	8.6	16,786	6.4	1,275	6.1	1,381	5.3	9,180	2.9	
Engineering	99,571	12.2	7,982	10.7	150	7.7	9,118	13.4	3,082	6.5	68	9.4	28,882	11.0	2,296	11.0	2,789	10.6	45,204	14.4	
Aerospace, aeronautical, and astronautical engineering	5,563	0.7	664	0.9	16	0.8	701	1.0	111	0.2	6	0.8	2,786	1.1	221	1.1	176	0.7	882	0.3	
Biological, biomedical, and biosystems engineering	5,475	0.7	523	0.7	9	0.5	803	1.2	210	0.4	4	0.6	1,722	0.7	185	0.9	140	0.5	1,879	0.6	
Chemical, petroleum, and chemical-related engineering	2,664	0.3	184	0.2	3	0.2	276	0.4	80	0.2	1	0.1	735	0.3	52	0.2	63	0.2	1,270	0.4	
Civil, environmental, transportation and related engineering fields	11,360	1.4	1,191	1.6	23	1.2	768	1.1	327	0.7	10	1.4	3,629	1.4	269	1.3	211	0.8	4,932	1.6	
Electrical, electronics, communications and computer engineering	30,841	3.8	1,811	2.4	28	1.4	3,048	4.5	812	1.7	24	3.3	5,922	2.2	564	2.7	788	3.0	17,844	5.7	
Industrial, manufacturing, systems engineering and operations research	11,704	1.4	1,076	1.4	9	0.5	796	1.2	496	1.0	3	0.4	3,292	1.3	206	1.0	507	1.9	5,319	1.7	
Mechanical engineering	15,136	1.9	1,449	1.9	29	1.5	1,452	2.1	377	0.8	10	1.4	5,343	2.0	431	2.1	403	1.5	5,642	1.8	
Metallurgical, mining, materials and related engineering fields	2,503	0.3	256	0.3	10	0.5	243	0.4	75	0.2	4	0.6	900	0.3	70	0.3	77	0.3	868	0.3	
Other engineering	14,325	1.8	828	1.1	23	1.2	1,031	1.5	594	1.2	6	0.8	4,553	1.7	298	1.4	424	1.6	6,568	2.1	
Health	58,890	7.2	8,918	11.9	253	13.0	5,507	8.1	6,744	14.1	75	10.4	26,212	10.0	1,988	9.5	2,787	10.6	6,406	2.0	
Clinical medicine ^a	26,645	3.3	3,913	5.2	173	8.9	3,181	4.7	4,267	8.9	45	6.2	10,122	3.8	998	4.8	1,414	5.4	2,532	0.8	
Other health	32,245	3.9	5,005	6.7	80	4.1	2,326	3.4	2,477	5.2	30	4.1	16,090	6.1	990	4.7	1,373	5.2	3,874	1.2	
Doctoral students	312,148	38.2	23,064	30.8	740	38.1	22,508	33.2	14,451	30.3	205	28.3	103,181	39.2	8,115	38.8	9,030	34.5	130,854	41.6	
Science	216,898	26.5	17,754	23.7	575	29.6	15,655	23.1	10,298	21.6	151	20.9	77,765	29.5	6,086	29.1	6,577	25.1	82,037	26.1	
Agricultural and veterinary sciences	5,044	0.6	245	0.3	10	0.5	141	0.2	109	0.2	1	0.1	1,716	0.7	81	0.4	80	0.3	2,661	0.8	
Biological and biomedical sciences	62,357	7.6	6,121	8.2	133	6.8	5,927	8.7	2,605	5.5	51	7.0	25,404	9.6	2,027	9.7	1,726	6.6	18,363	5.8	
Computer and information sciences	24,010	2.9	729	1.0	32	1.6	1,993	2.9	898	1.9	12	1.7	4,262	1.6	389	1.9	768	2.9	14,927	4.7	
Geosciences, atmospheric, and ocean sciences	6,857	0.8	550	0.7	14	0.7	299	0.4	180	0.4	5	0.7	3,161	1.2	259	1.2	172	0.7	2,217	0.7	
Mathematics and statistics	14,031	1.7	717	1.0	7	0.4	1,044	1.5	216	0.5	5	0.7	4,077	1.5	286	1.4	360	1.4	7,319	2.3	
Multidisciplinary and interdisciplinary sciences	5,215	0.6	396	0.5	12	0.6	385	0.6	273	0.6	3	0.4	1,857	0.7	153	0.7	156	0.6	1,980	0.6	
Natural resources and conservation	4,182	0.5	305	0.4	46	2.4	146	0.2	176	0.4	3	0.4	1,982	0.8	105	0.5	115	0.4	1,304	0.4	
Physical sciences	39,329	4.8	2,633	3.5	49	2.5	2,553	3.8	852	1.8	11	1.5	14,087	5.3	944	4.5	864	3.3	17,336	5.5	
Psychology	23,408	2.9	3,372	4.5	94	4.8	1,510	2.2	2,745	5.8	29	4.0	10,617	4.0	958	4.6	1,181	4.5	2,902	0.9	
Social sciences	32,465	4.0	2,686	3.6	178	9.2	1,657	2.4	2,244	4.7	31	4.3	10,602	4.0	884	4.2	1,155	4.4	13,028	4.1	
Engineering	76,441	9.3	3,534	4.7	84	4.3	5,356	7.9	1,832	3.8	36	5.0	18,263	6.9	1,542	7.4	1,717	6.6	44,077	14.0	
Aerospace, aeronautical, and astronautical engineering	3,032	0.4	198	0.3	4	0.2	266	0.4	61	0.1	3	0.4	1,201	0.5	102	0.5	63	0.2	1,134	0.4	
Biological, biomedical, and biosystems engineering	10,330	1.3	804	1.1	12	0.6	1,203	1.8	352	0.7	9	1.2	3,197	1.2	302	1.4	439	1.7	4,012	1.3	
Chemical, petroleum, and chemical-related engineering	7,935	1.0	368	0.5	10	0.5	672	1.0	161	0.3	2	0.3	2,011	0.8	143	0.7	149	0.6	4,419	1.4	
Civil, environmental, transportation and related engineering fields	7,899	1.0	267	0.4	13	0.7	309	0.5	158	0.3	6	0.8	1,391	0.5	113	0.5	111	0.4	5,531	1.8	
Electrical, electronics, communications and computer engineering	17,774	2.2	521	0.7	10	0.5	1,164	1.7	300	0.6	6	0.8	2,883	1.1	250	1.2	330	1.3	12,310	3.9	

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Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	
Industrial, manufacturing, systems engineering and operations research	4,046	0.5	129	0.2	6	0.3	231	0.3	162	0.3			2	0.3	847	0.3	64	0.3	107	0.4	2,498	0.8
Mechanical engineering	11,858	1.4	570	0.8	12	0.6	682	1.0	210	0.4			1	0.1	2,783	1.1	238	1.1	213	0.8	7,149	2.3
Metallurgical, mining, materials and related engineering fields	4,858	0.6	291	0.4	2	0.1	344	0.5	102	0.2			1	0.1	1,403	0.5	126	0.6	84	0.3	2,505	0.8
Other engineering	8,709	1.1	386	0.5	15	0.8	485	0.7	326	0.7			6	0.8	2,547	1.0	204	1.0	221	0.8	4,519	1.4
Health	18,809	2.3	1,776	2.4	81	4.2	1,497	2.2	2,321	4.9			18	2.5	7,153	2.7	487	2.3	736	2.8	4,740	1.5
Clinical medicine ^a	6,399	0.8	705	0.9	53	2.7	563	0.8	1,070	2.2			10	1.4	2,182	0.8	221	1.1	188	0.7	1,407	0.4
Other health	12,410	1.5	1,071	1.4	28	1.4	934	1.4	1,251	2.6			8	1.1	4,971	1.9	266	1.3	548	2.1	3,333	1.1

^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. Ethnicity and race data are available only for U.S. citizens and permanent residents. For more information on the mapping of Survey of Graduate Students and Postdoctorates in Science and Engineering fields and codes, see table A-6. 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, 2024.