

Table 1**Enrollment of master's students and doctoral students in science, engineering, and health, by enrollment type, citizenship, sex, race, and ethnicity: 2018–22**

(Number and percent change)

Characteristic	Master's							Doctoral						
	2018	2019	2020	2021	2022	% change 2018–22	% change 2021–22	2018	2019	2020	2021	2022	% change 2018–22	% change 2021–22
American Indian or Alaska Native	685	746	722	744	794	15.9	6.7	580	613	600	574	577	-0.5	0.5
Asian	15,882	16,900	18,544	21,675	21,351	34.4	-1.5	14,789	15,416	15,958	17,378	18,194	23.0	4.7
Black or African American	13,294	13,983	15,989	16,916	15,880	19.5	-6.1	7,866	7,972	8,571	9,315	9,641	22.6	3.5
Native Hawaiian or Other Pacific Islander	269	285	294	317	272	1.1	-14.2	189	159	160	153	159	-15.9	3.9
White	86,699	88,477	93,614	97,735	90,532	4.4	-7.4	93,243	92,588	92,761	92,519	90,364	-3.1	-2.3
More than one race	5,455	5,548	6,377	6,985	6,923	26.9	-0.9	5,047	5,279	5,726	6,257	6,455	27.9	3.2
Unknown race and ethnicity	8,238	7,656	7,790	7,568	6,805	-17.4	-10.1	6,435	6,392	6,773	6,516	6,419	-0.2	-1.5
Temporary visa holders	99,019	100,342	76,093	108,142	150,958	52.5	39.6	100,739	104,103	100,728	106,330	109,534	8.7	3.0
Male	61,405	61,194	45,489	65,845	92,976	51.4	41.2	65,408	66,857	64,179	66,682	68,070	4.1	2.1
Female	37,614	39,148	30,604	42,297	57,982	54.2	37.1	35,331	37,246	36,549	39,648	41,464	17.4	4.6
First time, full-time students	114,214	116,507	102,096	147,266	147,317	29.0	*	45,510	46,525	41,173	46,670	47,416	4.2	1.6
U.S. citizens and permanent residents ^a	67,821	68,897	79,715	82,441	72,404	6.8	-12.2	27,009	27,177	27,744	27,515	26,758	-0.9	-2.8
Male	28,480	28,005	32,396	32,799	28,218	-0.9	-14.0	13,558	13,366	13,419	12,694	12,294	-9.3	-3.2
Female	39,341	40,892	47,319	49,642	44,186	12.3	-11.0	13,451	13,811	14,325	14,821	14,464	7.5	-2.4
Hispanic or Latino	8,618	9,034	11,483	12,193	10,881	26.3	-10.8	2,921	3,267	3,383	3,669	3,579	22.5	-2.5
Not Hispanic or Latino														
American Indian or Alaska Native	291	314	306	337	353	21.3	4.7	100	115	96	85	108	8.0	27.1
Asian	7,966	8,487	9,685	11,187	10,072	26.4	-10.0	2,954	3,008	3,153	3,329	3,384	14.6	1.7
Black or African American	5,789	6,188	7,664	7,606	6,717	16.0	-11.7	1,593	1,637	1,726	2,038	1,850	16.1	-9.2
Native Hawaiian or Other Pacific Islander	138	136	135	150	113	-18.1	-24.7	39	24	27	33	26	-33.3	-21.2
White	38,837	39,055	44,007	44,446	38,316	-1.3	-13.8	17,291	17,067	16,886	16,060	15,407	-10.9	-4.1

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Characteristic	Master's							Doctoral						
	2018	2019	2020	2021	2022	% change 2018–22	% change 2021–22	2018	2019	2020	2021	2022	% change 2018–22	% change 2021–22
More than one race	2,480	2,498	3,063	3,293	3,141	26.7	-4.6	1,062	1,047	1,160	1,195	1,276	20.2	6.8
Unknown race and ethnicity	3,702	3,185	3,372	3,229	2,811	-24.1	-12.9	1,049	1,012	1,313	1,106	1,128	7.5	2.0
Temporary visa holders	46,393	47,610	22,381	64,825	74,913	61.5	15.6	18,501	19,348	13,429	19,155	20,658	11.7	7.8
Male	28,372	28,568	12,678	40,068	45,912	61.8	14.6	11,676	12,035	8,193	11,704	12,405	6.2	6.0
Female	18,021	19,042	9,703	24,757	29,001	60.9	17.1	6,825	7,313	5,236	7,451	8,253	20.9	10.8

* = value < 0.05%.

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

Percentages may not add to total because of rounding. For more information on the mapping of fields and codes in the Survey of Graduate Students and Postdoctorates in Science and Engineering, see technical table A-17 <https://nces.nsf.gov/pubs/nsf24319/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 published data from the National Center for Science and Engineering Statistics, see the "Technical Notes" at <https://nces.nsf.gov/surveys/graduate-students-postdoctorates-s-e/2022#technical-notes>.

Source(s):

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