

Table 1**Enrollment of master's students and doctoral students in science, engineering, and health, by enrollment intensity, sex, citizenship status, race, and ethnicity: 2019–23**

(Number and percent change)

Characteristic	Master's students							Doctoral students						
	2019	2020	2021	2022	2023	Percent change		2019	2020	2021	2022	2023	Percent change	
						2019–23	2022–23						2019–23	2022–23
American Indian or Alaska Native	746	722	744	794	694	-7.0	-12.6	613	600	574	577	592	-3.4	2.6
Asian	16,900	18,544	21,675	21,351	21,580	27.7	1.1	15,416	15,958	17,378	18,194	19,132	24.1	5.2
Black or African American	13,983	15,989	16,916	15,880	15,825	13.2	-0.3	7,972	8,571	9,315	9,641	10,755	34.9	11.6
Native Hawaiian or Other Pacific Islander	285	294	317	272	248	-13.0	-8.8	159	160	153	159	157	-1.3	-1.3
White	88,477	93,614	97,735	90,532	85,349	-3.5	-5.7	92,588	92,761	92,519	90,364	88,929	-4.0	-1.6
More than one race	5,548	6,377	6,985	6,923	6,908	24.5	-0.2	5,279	5,726	6,257	6,455	6,947	31.6	7.6
Unknown race and ethnicity	7,656	7,790	7,568	6,805	7,390	-3.5	8.6	6,392	6,773	6,516	6,419	6,833	6.9	6.4
Temporary visa holders	100,342	76,093	108,142	150,958	165,952	65.4	9.9	104,103	100,728	106,330	109,534	116,007	11.4	5.9
Male	61,194	45,489	65,845	92,976	101,681	66.2	9.4	66,857	64,179	66,682	68,070	71,488	6.9	5.0
Female	39,148	30,604	42,297	57,982	64,271	64.2	10.8	37,246	36,549	39,648	41,464	44,519	19.5	7.4
First-time, full-time students	116,507	102,096	147,266	147,317	153,545	31.8	4.2	46,525	41,173	46,670	47,416	50,253	8.0	6.0
U.S. citizens and permanent residents ^a	68,897	79,715	82,441	72,404	75,236	9.2	3.9	27,177	27,744	27,515	26,758	27,049	-0.5	1.1
Male	28,005	32,396	32,799	28,218	30,058	7.3	6.5	13,366	13,419	12,694	12,294	12,456	-6.8	1.3
Female	40,892	47,319	49,642	44,186	45,178	10.5	2.2	13,811	14,325	14,821	14,464	14,593	5.7	0.9
Hispanic or Latino	9,034	11,483	12,193	10,881	11,666	29.1	7.2	3,267	3,383	3,669	3,579	3,677	12.5	2.7
Not Hispanic or Latino														
American Indian or Alaska Native	314	306	337	353	307	-2.2	-13.0	115	96	85	108	86	-25.2	-20.4
Asian	8,487	9,685	11,187	10,072	10,810	27.4	7.3	3,008	3,153	3,329	3,384	3,532	17.4	4.4
Black or African American	6,188	7,664	7,606	6,717	7,360	18.9	9.6	1,637	1,726	2,038	1,850	2,053	25.4	11.0
Native Hawaiian or Other Pacific Islander	136	135	150	113	100	-26.5	-11.5	24	27	33	26	24	0.0	-7.7
White	39,055	44,007	44,446	38,316	38,430	-1.6	0.3	17,067	16,886	16,060	15,407	15,137	-11.3	-1.8

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	2019	2020	2021	2022	2023	Percent change		2019	2020	2021	2022	2023	Percent change	
						2019–23	2022–23						2019–23	2022–23
More than one race	2,498	3,063	3,293	3,141	3,207	28.4	2.1	1,047	1,160	1,195	1,276	1,392	33.0	9.1
Unknown race and ethnicity	3,185	3,372	3,229	2,811	3,356	5.4	19.4	1,012	1,313	1,106	1,128	1,148	13.4	1.8
Temporary visa holders	47,610	22,381	64,825	74,913	78,309	64.5	4.5	19,348	13,429	19,155	20,658	23,204	19.9	12.3
Male	28,568	12,678	40,068	45,912	48,178	68.6	4.9	12,035	8,193	11,704	12,405	13,908	15.6	12.1
Female	19,042	9,703	24,757	29,001	30,131	58.2	3.9	7,313	5,236	7,451	8,253	9,296	27.1	12.6

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

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