

TABLE 4-22a

Mechanical engineering master's and doctoral student demographics, enrollment status, and funding: 2022

(Number and percent)

Characteristic	All graduate students		Master's students		Doctoral students	
	Number	Percent	Number	Percent	Number	Percent
Institutions	229	33.2	225	32.6	162	23.5
Schools	235	30.3	231	29.8	164	21.2
Units	301	1.3	279	1.2	178	0.8
All graduate students	27,552	100.0	16,029	100.0	11,523	100.0
Male	22,445	81.5	13,323	83.1	9,122	79.2
Female	5,107	18.5	2,706	16.9	2,401	20.8
U.S. citizens and permanent residents ^a	14,231	51.7	9,435	58.9	4,796	41.6
Hispanic or Latino	1,891	6.9	1,332	8.3	559	4.9
Not Hispanic or Latino						
American Indian or Alaska Native	32	0.1	21	0.1	11	0.1
Asian	2,044	7.4	1,399	8.7	645	5.6
Black or African American	587	2.1	362	2.3	225	2.0
Native Hawaiian or Other Pacific Islander	4	*	2	*	2	*
White	8,462	30.7	5,553	34.6	2,909	25.2
More than one race	609	2.2	399	2.5	210	1.8
Unknown ethnicity and race	602	2.2	367	2.3	235	2.0
Temporary visa holders	13,321	48.3	6,594	41.1	6,727	58.4
Part time	6,856	24.9	5,606	35.0	1,250	10.8
Full time	20,696	75.1	10,423	65.0	10,273	89.2
First time	6,417	23.3	4,801	30.0	1,616	14.0
Primary source of support for full-time students ^b						
Federal	4,117	14.9	830	5.2	3,287	28.5
DOD	1,073	3.9	285	1.8	788	6.8
DOE	604	2.2	112	0.7	492	4.3
HHS	324	1.2	49	0.3	275	2.4
NIH	229	0.8	25	0.2	204	1.8
Other HHS	95	0.3	24	0.1	71	0.6
NASA	228	0.8	58	0.4	170	1.5
NSF	1,356	4.9	165	1.0	1,191	10.3
USDA	28	0.1	5	*	23	0.2
Other	504	1.8	156	1.0	348	3.0
Nonfederal	9,989	36.3	3,672	22.9	6,317	54.8
Institutional	8,511	30.9	3,252	20.3	5,259	45.6
Domestic	1,253	4.5	358	2.2	895	7.8
Foreign	225	0.8	62	0.4	163	1.4
Self-support	6,590	23.9	5,921	36.9	669	5.8
Primary mechanism of support for full-time students ^b						
Fellowships	1,525	5.5	352	2.2	1,173	10.2
Research assistantships	7,206	26.2	1,498	9.3	5,708	49.5
Teaching assistantships	2,921	10.6	942	5.9	1,979	17.2
Traineeships	178	0.6	78	0.5	100	0.9
Other types of support	8,866	32.2	7,553	47.1	1,313	11.4
Self-support	6,590	23.9	5,921	36.9	669	5.8
Other	2,276	8.3	1,632	10.2	644	5.6

* = value < 0.05%.

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.

^a Ethnicity and race data are available only for U.S. citizens and permanent residents.

^b Funding data are available only for full-time students.

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.

Source(s):

National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2022.