

TABLE 4-22a

Mechanical engineering master's and doctoral student demographics, enrollment status, and funding: 2021

(Number and percent)

Characteristic	All graduate students		Master's students		Doctoral students	
	Number	Percent	Number	Percent	Number	Percent
Institutions	228	32.6	225	32.2	160	22.9
Schools	234	29.7	231	29.4	162	20.6
Units	298	1.4	279	1.3	174	0.8
All graduate students	27,258	100.0	15,718	100.0	11,540	100.0
Male	22,195	81.4	13,010	82.8	9,185	79.6
Female	5,063	18.6	2,708	17.2	2,355	20.4
U.S. citizens and permanent residents ^a	15,106	55.4	10,255	65.2	4,851	42.0
Hispanic or Latino	2,055	7.5	1,490	9.5	565	4.9
Not Hispanic or Latino						
American Indian or Alaska Native	39	0.1	28	0.2	11	0.1
Asian	2,018	7.4	1,412	9.0	606	5.3
Black or African American	603	2.2	373	2.4	230	2.0
Native Hawaiian or Other Pacific Islander	11	*	9	0.1	2	*
White	9,167	33.6	6,158	39.2	3,009	26.1
More than one race	612	2.2	405	2.6	207	1.8
Unknown ethnicity and race	601	2.2	380	2.4	221	1.9
Temporary visa holders	12,152	44.6	5,463	34.8	6,689	58.0
Part time	7,022	25.8	5,788	36.8	1,234	10.7
Full time	20,236	74.2	9,930	63.2	10,306	89.3
First time	6,957	25.5	5,359	34.1	1,598	13.8
Primary source of support for full-time students ^b						
Federal	4,255	15.6	793	5.0	3,462	30.0
DOD	1,065	3.9	274	1.7	791	6.9
DOE	615	2.3	118	0.8	497	4.3
HHS	340	1.2	38	0.2	302	2.6
NIH	250	0.9	20	0.1	230	2.0
Other HHS	90	0.3	18	0.1	72	0.6
NASA	211	0.8	42	0.3	169	1.5
NSF	1,449	5.3	155	1.0	1,294	11.2
USDA	34	0.1	4	*	30	0.3
Other	541	2.0	162	1.0	379	3.3
Nonfederal	9,236	33.9	3,099	19.7	6,137	53.2
Institutional	7,806	28.6	2,693	17.1	5,113	44.3
Domestic	1,115	4.1	348	2.2	767	6.6
Foreign	315	1.2	58	0.4	257	2.2
Self-support	6,745	24.7	6,038	38.4	707	6.1
Primary mechanism of support for full-time students ^b						
Fellowships	1,724	6.3	378	2.4	1,346	11.7
Research assistantships	6,896	25.3	1,305	8.3	5,591	48.4
Teaching assistantships	2,894	10.6	875	5.6	2,019	17.5
Traineeships	191	0.7	114	0.7	77	0.7
Other types of support	8,531	31.3	7,258	46.2	1,273	11.0
Self-support	6,745	24.7	6,038	38.4	707	6.1
Other	1,786	6.6	1,220	7.8	566	4.9

* = 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, 2021.