

TABLE 4-22a

Mechanical engineering master's and doctoral student demographics, enrollment status, and funding: 2023

(Number and percent)

Characteristic	All graduate students		Master's students		Doctoral students	
	Number	Percent	Number	Percent	Number	Percent
Institutions	238	34.6	233	33.9	165	24.0
Schools	244	31.7	239	31.0	167	21.7
Units	310	1.4	287	1.3	179	0.8
All graduate students	27,014	100.0	15,335	100.0	11,679	100.0
Male	21,946	81.2	12,783	83.4	9,163	78.5
Female	5,068	18.8	2,552	16.6	2,516	21.5
U.S. citizens and permanent residents ^a	13,744	50.9	9,017	58.8	4,727	40.5
Hispanic or Latino	1,839	6.8	1,288	8.4	551	4.7
Not Hispanic or Latino						
American Indian or Alaska Native	33	0.1	21	0.1	12	0.1
Asian	2,045	7.6	1,389	9.1	656	5.6
Black or African American	586	2.2	365	2.4	221	1.9
Native Hawaiian or Other Pacific Islander	11	*	9	0.1	2	*
White	8,051	29.8	5,193	33.9	2,858	24.5
More than one race	673	2.5	450	2.9	223	1.9
Unknown ethnicity and race	506	1.9	302	2.0	204	1.7
Temporary visa holders	13,270	49.1	6,318	41.2	6,952	59.5
Part time	6,691	24.8	5,474	35.7	1,217	10.4
Full time	20,323	75.2	9,861	64.3	10,462	89.6
First time	6,294	23.3	4,549	29.7	1,745	14.9
Primary source of support for full-time students ^b						
Federal	4,254	15.7	786	5.1	3,468	29.7
DOD	1,072	4.0	266	1.7	806	6.9
DOE	593	2.2	112	0.7	481	4.1
HHS	351	1.3	42	0.3	309	2.6
NIH	261	1.0	19	0.1	242	2.1
Other HHS	90	0.3	23	0.1	67	0.6
NASA	191	0.7	34	0.2	157	1.3
NSF	1,417	5.2	163	1.1	1,254	10.7
USDA	50	0.2	11	0.1	39	0.3
Other	580	2.1	158	1.0	422	3.6
Nonfederal	9,845	36.4	3,442	22.4	6,403	54.8
Institutional	8,173	30.3	2,991	19.5	5,182	44.4
Domestic	1,420	5.3	386	2.5	1,034	8.9
Foreign	252	0.9	65	0.4	187	1.6

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Characteristic	All graduate students		Master's students		Doctoral students	
	Number	Percent	Number	Percent	Number	Percent
Self-support	6,224	23.0	5,633	36.7	591	5.1
Primary mechanism of support for full-time students ^b						
Fellowships	1,576	5.8	290	1.9	1,286	11.0
Research assistantships	7,320	27.1	1,416	9.2	5,904	50.6
Teaching assistantships	2,915	10.8	924	6.0	1,991	17.0
Traineeships	182	0.7	90	0.6	92	0.8
Other types of support	8,330	30.8	7,141	46.6	1,189	10.2
Self-support	6,224	23.0	5,633	36.7	591	5.1
Other	2,106	7.8	1,508	9.8	598	5.1

* = 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, 2023.