

TABLE 4-22a

Mechanical engineering master's and doctoral student demographics, enrollment status, and funding: 2020

(Number and percent)

Characteristic	All graduate students		Master's students		Doctoral students	
	Number	Percent	Number	Percent	Number	Percent
Institutions	228	32.0	224	31.5	157	22.1
Schools	234	29.0	230	28.5	159	19.7
Units	284	1.3	263	1.2	169	0.8
All graduate students	25,782	100.0	14,305	100.0	11,477	100.0
Male	21,079	81.8	11,897	83.2	9,182	80.0
Female	4,703	18.2	2,408	16.8	2,295	20.0
U.S. citizens and permanent residents ^a	14,362	55.7	9,557	66.8	4,805	41.9
Hispanic or Latino	1,818	7.1	1,262	8.8	556	4.8
Not Hispanic or Latino						
American Indian or Alaska Native	38	0.1	24	0.2	14	0.1
Asian	1,800	7.0	1,220	8.5	580	5.1
Black or African American	561	2.2	336	2.3	225	2.0
Native Hawaiian or Other Pacific Islander	9	*	8	0.1	1	*
White	8,990	34.9	5,986	41.8	3,004	26.2
More than one race	538	2.1	341	2.4	197	1.7
Unknown ethnicity and race	608	2.4	380	2.7	228	2.0
Temporary visa holders	11,420	44.3	4,748	33.2	6,672	58.1
Part time	7,102	27.5	5,844	40.9	1,258	11.0
Full time	18,680	72.5	8,461	59.1	10,219	89.0
First time	4,785	18.6	3,343	23.4	1,442	12.6
Primary source of support for full-time students ^b						
Federal	4,283	16.6	866	6.1	3,417	29.8
DOD	1,013	3.9	292	2.0	721	6.3
DOE	576	2.2	111	0.8	465	4.1
HHS	328	1.3	39	0.3	289	2.5
NIH	254	1.0	24	0.2	230	2.0
Other HHS	74	0.3	15	0.1	59	0.5
NASA	235	0.9	49	0.3	186	1.6
NSF	1,595	6.2	227	1.6	1,368	11.9
USDA	24	0.1	3	*	21	0.2
Other	512	2.0	145	1.0	367	3.2
Nonfederal	8,754	34.0	2,713	19.0	6,041	52.6
Institutional	7,296	28.3	2,318	16.2	4,978	43.4
Domestic	1,137	4.4	334	2.3	803	7.0
Foreign	321	1.2	61	0.4	260	2.3
Self-support	5,643	21.9	4,882	34.1	761	6.6
Primary mechanism of support for full-time students ^b						
Fellowships	1,448	5.6	197	1.4	1,251	10.9
Research assistantships	6,682	25.9	1,315	9.2	5,367	46.8
Teaching assistantships	2,985	11.6	859	6.0	2,126	18.5
Traineeships	174	0.7	80	0.6	94	0.8
Other types of support	7,391	28.7	6,010	42.0	1,381	12.0
Self-support	5,643	21.9	4,882	34.1	761	6.6
Other	1,748	6.8	1,128	7.9	620	5.4

* = 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, 2020.