

TABLE 4-23a

Metallurgical, mining, materials and related engineering fields 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	101	14.7	91	13.2	83	12.1
Schools	103	13.4	93	12.1	83	10.8
Units	151	0.7	125	0.5	109	0.5
All graduate students	7,244	100.0	2,462	100.0	4,782	100.0
Male	4,953	68.4	1,691	68.7	3,262	68.2
Female	2,291	31.6	771	31.3	1,520	31.8
U.S. citizens and permanent residents ^a	3,928	54.2	1,560	63.4	2,368	49.5
Hispanic or Latino	521	7.2	219	8.9	302	6.3
Not Hispanic or Latino						
American Indian or Alaska Native	12	0.2	6	0.2	6	0.1
Asian	545	7.5	200	8.1	345	7.2
Black or African American	181	2.5	74	3.0	107	2.2
Native Hawaiian or Other Pacific Islander	3	*	2	0.1	1	*
White	2,338	32.3	918	37.3	1,420	29.7
More than one race	186	2.6	70	2.8	116	2.4
Unknown ethnicity and race	142	2.0	71	2.9	71	1.5
Temporary visa holders	3,316	45.8	902	36.6	2,414	50.5
Part time	1,254	17.3	843	34.2	411	8.6
Full time	5,990	82.7	1,619	65.8	4,371	91.4
First time	1,615	22.3	783	31.8	832	17.4
Primary source of support for full-time students ^b						
Federal	1,785	24.6	169	6.9	1,616	33.8
DOD	375	5.2	61	2.5	314	6.6
DOE	399	5.5	32	1.3	367	7.7
HHS	132	1.8	14	0.6	118	2.5
NIH	50	0.7	2	0.1	48	1.0
Other HHS	82	1.1	12	0.5	70	1.5
NASA	52	0.7	7	0.3	45	0.9
NSF	606	8.4	28	1.1	578	12.1
USDA	13	0.2	0	0.0	13	0.3
Other	208	2.9	27	1.1	181	3.8
Nonfederal	3,112	43.0	600	24.4	2,512	52.5
Institutional	2,404	33.2	452	18.4	1,952	40.8
Domestic	641	8.8	141	5.7	500	10.5
Foreign	67	0.9	7	0.3	60	1.3

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Characteristic	All graduate students		Master's students		Doctoral students	
	Number	Percent	Number	Percent	Number	Percent
Self-support	1,093	15.1	850	34.5	243	5.1
Primary mechanism of support for full-time students ^b						
Fellowships	732	10.1	85	3.5	647	13.5
Research assistantships	3,126	43.2	385	15.6	2,741	57.3
Teaching assistantships	586	8.1	129	5.2	457	9.6
Traineeships	37	0.5	2	0.1	35	0.7
Other types of support	1,509	20.8	1,018	41.3	491	10.3
Self-support	1,093	15.1	850	34.5	243	5.1
Other	416	5.7	168	6.8	248	5.2

* = 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.