

TABLE 4-17a

Biological, biomedical, and biosystems 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	183	26.6	166	24.2	146	21.3
Schools	188	24.4	170	22.1	149	19.4
Units	244	1.1	206	0.9	170	0.7
All graduate students	15,203	100.0	5,204	100.0	9,999	100.0
Male	7,789	51.2	2,583	49.6	5,206	52.1
Female	7,414	48.8	2,621	50.4	4,793	47.9
U.S. citizens and permanent residents ^a	9,624	63.3	3,395	65.2	6,229	62.3
Hispanic or Latino	1,220	8.0	459	8.8	761	7.6
Not Hispanic or Latino						
American Indian or Alaska Native	20	0.1	8	0.2	12	0.1
Asian	1,972	13.0	770	14.8	1,202	12.0
Black or African American	587	3.9	225	4.3	362	3.6
Native Hawaiian or Other Pacific Islander	9	0.1	3	0.1	6	0.1
White	4,942	32.5	1,663	32.0	3,279	32.8
More than one race	440	2.9	156	3.0	284	2.8
Unknown ethnicity and race	434	2.9	111	2.1	323	3.2
Temporary visa holders	5,579	36.7	1,809	34.8	3,770	37.7
Part time	1,936	12.7	1,243	23.9	693	6.9
Full time	13,267	87.3	3,961	76.1	9,306	93.1
First time	4,143	27.3	2,345	45.1	1,798	18.0
Primary source of support for full-time students ^b						
Federal	3,548	23.3	183	3.5	3,365	33.7
DOD	187	1.2	21	0.4	166	1.7
DOE	20	0.1	1	*	19	0.2
HHS	2,262	14.9	64	1.2	2,198	22.0
NIH	2,001	13.2	55	1.1	1,946	19.5
Other HHS	261	1.7	9	0.2	252	2.5
NASA	9	0.1	2	*	7	0.1
NSF	686	4.5	31	0.6	655	6.6
USDA	64	0.4	15	0.3	49	0.5
Other	320	2.1	49	0.9	271	2.7
Nonfederal	6,865	45.2	1,269	24.4	5,596	56.0
Institutional	5,680	37.4	1,161	22.3	4,519	45.2
Domestic	1,106	7.3	98	1.9	1,008	10.1
Foreign	79	0.5	10	0.2	69	0.7

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Characteristic	All graduate students		Master's students		Doctoral students	
	Number	Percent	Number	Percent	Number	Percent
Self-support	2,854	18.8	2,509	48.2	345	3.5
Primary mechanism of support for full-time students ^b						
Fellowships	1,899	12.5	164	3.2	1,735	17.4
Research assistantships	5,505	36.2	442	8.5	5,063	50.6
Teaching assistantships	1,043	6.9	367	7.1	676	6.8
Traineeships	461	3.0	8	0.2	453	4.5
Other types of support	4,359	28.7	2,980	57.3	1,379	13.8
Self-support	2,854	18.8	2,509	48.2	345	3.5
Other	1,505	9.9	471	9.1	1,034	10.3

* = 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.