

TABLE 4-17a

Biological, biomedical, and biosystems 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	177	25.3	161	23.0	141	20.2
Schools	181	23.0	163	20.7	143	18.2
Units	228	1.1	191	0.9	163	0.8
All graduate students	14,059	100.0	5,192	100.0	8,867	100.0
Male	7,517	53.5	2,662	51.3	4,855	54.8
Female	6,542	46.5	2,530	48.7	4,012	45.2
U.S. citizens and permanent residents ^a	9,555	68.0	3,682	70.9	5,873	66.2
Hispanic or Latino	1,053	7.5	408	7.9	645	7.3
Not Hispanic or Latino						
American Indian or Alaska Native	15	0.1	4	0.1	11	0.1
Asian	1,878	13.4	795	15.3	1,083	12.2
Black or African American	544	3.9	230	4.4	314	3.5
Native Hawaiian or Other Pacific Islander	14	0.1	6	0.1	8	0.1
White	5,239	37.3	1,953	37.6	3,286	37.1
More than one race	433	3.1	168	3.2	265	3.0
Unknown ethnicity and race	379	2.7	118	2.3	261	2.9
Temporary visa holders	4,504	32.0	1,510	29.1	2,994	33.8
Part time	1,993	14.2	1,292	24.9	701	7.9
Full time	12,066	85.8	3,900	75.1	8,166	92.1
First time	3,853	27.4	2,328	44.8	1,525	17.2
Primary source of support for full-time students ^b						
Federal	3,281	23.3	194	3.7	3,087	34.8
DOD	167	1.2	21	0.4	146	1.6
DOE	16	0.1	1	*	15	0.2
HHS	2,162	15.4	70	1.3	2,092	23.6
NIH	2,076	14.8	63	1.2	2,013	22.7
Other HHS	86	0.6	7	0.1	79	0.9
NASA	12	0.1	2	*	10	0.1
NSF	639	4.5	19	0.4	620	7.0
USDA	32	0.2	7	0.1	25	0.3
Other	253	1.8	74	1.4	179	2.0
Nonfederal	5,639	40.1	998	19.2	4,641	52.3
Institutional	4,977	35.4	912	17.6	4,065	45.8
Domestic	599	4.3	80	1.5	519	5.9
Foreign	63	0.4	6	0.1	57	0.6
Self-support	3,146	22.4	2,708	52.2	438	4.9
Primary mechanism of support for full-time students ^b						
Fellowships	1,838	13.1	170	3.3	1,668	18.8
Research assistantships	4,630	32.9	319	6.1	4,311	48.6
Teaching assistantships	956	6.8	325	6.3	631	7.1
Traineeships	418	3.0	19	0.4	399	4.5
Other types of support	4,224	30.0	3,067	59.1	1,157	13.0
Self-support	3,146	22.4	2,708	52.2	438	4.9
Other	1,078	7.7	359	6.9	719	8.1

* = 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, 2021.