

TABLE 4-17a

Biological, biomedical, and biosystems 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	175	24.6	157	22.1	138	19.4
Schools	178	22.1	159	19.7	139	17.2
Units	220	1.0	186	0.9	155	0.7
All graduate students	12,775	100.0	4,536	100.0	8,239	100.0
Male	7,022	55.0	2,403	53.0	4,619	56.1
Female	5,753	45.0	2,133	47.0	3,620	43.9
U.S. citizens and permanent residents ^a	8,890	69.6	3,303	72.8	5,587	67.8
Hispanic or Latino	956	7.5	383	8.4	573	7.0
Not Hispanic or Latino						
American Indian or Alaska Native	22	0.2	7	0.2	15	0.2
Asian	1,690	13.2	688	15.2	1,002	12.2
Black or African American	450	3.5	188	4.1	262	3.2
Native Hawaiian or Other Pacific Islander	14	0.1	4	0.1	10	0.1
White	4,953	38.8	1,713	37.8	3,240	39.3
More than one race	399	3.1	153	3.4	246	3.0
Unknown ethnicity and race	406	3.2	167	3.7	239	2.9
Temporary visa holders	3,885	30.4	1,233	27.2	2,652	32.2
Part time	1,700	13.3	1,120	24.7	580	7.0
Full time	11,075	86.7	3,416	75.3	7,659	93.0
First time	3,295	25.8	1,882	41.5	1,413	17.2
Primary source of support for full-time students ^b						
Federal	3,016	23.6	184	4.1	2,832	34.4
DOD	192	1.5	27	0.6	165	2.0
DOE	23	0.2	2	*	21	0.3
HHS	1,918	15.0	70	1.5	1,848	22.4
NIH	1,831	14.3	67	1.5	1,764	21.4
Other HHS	87	0.7	3	0.1	84	1.0
NASA	22	0.2	8	0.2	14	0.2
NSF	682	5.3	27	0.6	655	7.9
USDA	33	0.3	7	0.2	26	0.3
Other	146	1.1	43	0.9	103	1.3
Nonfederal	5,382	42.1	883	19.5	4,499	54.6
Institutional	4,618	36.1	791	17.4	3,827	46.4
Domestic	690	5.4	79	1.7	611	7.4
Foreign	74	0.6	13	0.3	61	0.7
Self-support	2,677	21.0	2,349	51.8	328	4.0
Primary mechanism of support for full-time students ^b						
Fellowships	1,684	13.2	106	2.3	1,578	19.2
Research assistantships	4,213	33.0	277	6.1	3,936	47.8
Teaching assistantships	966	7.6	304	6.7	662	8.0
Traineeships	495	3.9	32	0.7	463	5.6
Other types of support	3,717	29.1	2,697	59.5	1,020	12.4
Self-support	2,677	21.0	2,349	51.8	328	4.0
Other	1,040	8.1	348	7.7	692	8.4

* = 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.