

TABLE 4-21a

Industrial, manufacturing, systems engineering and operations research 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	148	20.8	140	19.7	87	12.2
Schools	149	18.5	141	17.5	88	10.9
Units	243	1.1	222	1.0	110	0.5
All graduate students	14,869	100.0	11,030	100.0	3,839	100.0
Male	10,395	69.9	7,747	70.2	2,648	69.0
Female	4,474	30.1	3,283	29.8	1,191	31.0
U.S. citizens and permanent residents ^a	8,301	55.8	6,877	62.3	1,424	37.1
Hispanic or Latino	1,120	7.5	1,024	9.3	96	2.5
Not Hispanic or Latino						
American Indian or Alaska Native	19	0.1	17	0.2	2	0.1
Asian	975	6.6	798	7.2	177	4.6
Black or African American	623	4.2	488	4.4	135	3.5
Native Hawaiian or Other Pacific Islander	17	0.1	16	0.1	1	*
White	4,879	32.8	4,011	36.4	868	22.6
More than one race	246	1.7	196	1.8	50	1.3
Unknown ethnicity and race	422	2.8	327	3.0	95	2.5
Temporary visa holders	6,568	44.2	4,153	37.7	2,415	62.9
Part time	7,141	48.0	6,210	56.3	931	24.3
Full time	7,728	52.0	4,820	43.7	2,908	75.7
First time	2,398	16.1	1,953	17.7	445	11.6
Primary source of support for full-time students ^b						
Federal	1,095	7.4	484	4.4	611	15.9
DOD	502	3.4	365	3.3	137	3.6
DOE	45	0.3	10	0.1	35	0.9
HHS	67	0.5	14	0.1	53	1.4
NIH	29	0.2	3	*	26	0.7
Other HHS	38	0.3	11	0.1	27	0.7
NASA	22	0.1	2	*	20	0.5
NSF	314	2.1	25	0.2	289	7.5
USDA	4	*	0	0.0	4	0.1
Other	141	0.9	68	0.6	73	1.9
Nonfederal	2,864	19.3	956	8.7	1,908	49.7
Institutional	2,456	16.5	783	7.1	1,673	43.6
Domestic	325	2.2	132	1.2	193	5.0
Foreign	83	0.6	41	0.4	42	1.1
Self-support	3,769	25.3	3,380	30.6	389	10.1
Primary mechanism of support for full-time students ^b						
Fellowships	404	2.7	125	1.1	279	7.3
Research assistantships	1,545	10.4	320	2.9	1,225	31.9
Teaching assistantships	982	6.6	237	2.1	745	19.4
Traineeships	62	0.4	49	0.4	13	0.3
Other types of support	4,735	31.8	4,089	37.1	646	16.8
Self-support	3,769	25.3	3,380	30.6	389	10.1
Other	966	6.5	709	6.4	257	6.7

* = 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.