

TABLE 2-2a

Citizenship, ethnicity, and race of graduate students, postdoctoral appointees, and doctorate-holding nonfaculty researchers in science, by sex: 2022

(Number and percent)

Citizenship, ethnicity, race, and field	Graduate students						Postdoctoral appointees		Doctorate-holding nonfaculty researchers	
	All graduate students		Master's		Doctoral		Total number	Percent female	Total number	Percent female
	Total number	Percent female	Total number	Percent female	Total number	Percent female				
All surveyed fields	798,534	48.4	501,311	49.8	297,223	46.0	62,750	42.6	32,279	42.6
U.S. citizens and permanent residents ^a	500,299	54.5	322,005	56.2	178,294	51.4	27,289	47.8	na	na
Hispanic or Latino	69,621	57.9	48,303	59.8	21,318	53.5	2,192	51.1	na	na
Not Hispanic or Latino										
American Indian or Alaska Native	2,082	64.1	1,331	65.7	751	61.3	92	56.5	na	na
Asian	61,426	50.0	40,873	50.0	20,553	49.9	5,286	43.9	na	na
Black or African American	44,016	63.4	31,398	64.0	12,618	61.8	1,141	59.1	na	na
Native Hawaiian or Other Pacific Islander	738	56.0	541	55.6	197	56.9	34	41.2	na	na
White	279,657	53.3	172,212	55.4	107,445	50.1	15,221	47.8	na	na
More than one race	19,331	56.0	12,002	56.9	7,329	54.6	638	52.0	na	na
Unknown ethnicity and race	23,428	51.6	15,345	53.6	8,083	47.8	2,685	46.4	na	na
Temporary visa holders	298,235	38.1	179,306	38.3	118,929	37.8	35,461	38.5	na	na
Science	538,166	50.6	331,983	51.0	206,183	49.8	36,673	42.1	19,423	42.0
U.S. citizens and permanent residents ^a	340,964	55.6	208,232	56.8	132,732	53.8	16,542	46.3	na	na
Hispanic or Latino	48,508	60.0	31,959	62.1	16,549	56.0	1,357	51.2	na	na
Not Hispanic or Latino										
American Indian or Alaska Native	1,335	62.2	752	61.7	583	63.0	62	56.5	na	na
Asian	40,603	50.7	26,267	49.5	14,336	53.0	2,822	41.4	na	na
Black or African American	29,714	63.2	20,810	63.4	8,904	62.9	572	55.6	na	na
Native Hawaiian or Other Pacific Islander	537	55.5	382	55.0	155	56.8	23	47.8	na	na
White	190,960	54.5	110,258	56.0	80,702	52.4	9,664	46.6	na	na
More than one race	13,393	58.2	7,876	58.6	5,517	57.7	423	50.4	na	na
Unknown ethnicity and race	15,914	51.4	9,928	52.3	5,986	50.0	1,619	44.6	na	na
Temporary visa holders	197,202	41.9	123,751	41.4	73,451	42.8	20,131	38.6	na	na
Agricultural and veterinary sciences	11,596	59.3	6,949	62.0	4,647	55.3	1,705	45.0	1,068	49.0
U.S. citizens and permanent residents ^a	7,955	62.8	5,535	64.0	2,420	59.8	667	54.0	na	na
Hispanic or Latino	886	62.8	644	64.1	242	59.1	56	57.1	na	na
Not Hispanic or Latino										
American Indian or Alaska Native	29	65.5	19	84.2	10	30.0	1	100.0	na	na
Asian	396	62.6	267	67.8	129	51.9	101	43.6	na	na
Black or African American	457	65.4	364	64.6	93	68.8	33	39.4	na	na
Native Hawaiian or Other Pacific Islander	14	50.0	13	46.2	1	100.0	0	-	na	na
White	5,680	62.3	3,876	63.6	1,804	59.7	397	57.9	na	na
More than one race	237	66.7	173	65.9	64	68.8	15	53.3	na	na

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(Number and percent)

Citizenship, ethnicity, race, and field	Graduate students						Postdoctoral appointees		Doctorate-holding nonfaculty researchers	
	All graduate students		Master's		Doctoral		Total number	Percent female	Total number	Percent female
	Total number	Percent female	Total number	Percent female	Total number	Percent female				
Unknown ethnicity and race	256	64.1	179	64.8	77	62.3	64	50.0	na	na
Temporary visa holders	3,641	51.8	1,414	54.0	2,227	50.4	1,038	39.2	na	na
Biological and biomedical sciences	102,700	61.9	43,062	66.9	59,638	58.3	19,585	46.5	8,207	46.8
U.S. citizens and permanent residents ^a	79,204	62.3	35,447	66.8	43,757	58.7	8,266	49.6	na	na
Hispanic or Latino	10,691	61.4	4,953	66.9	5,738	56.7	756	54.0	na	na
Not Hispanic or Latino										
American Indian or Alaska Native	239	60.3	93	64.5	146	57.5	36	58.3	na	na
Asian	10,386	60.7	4,963	64.7	5,423	57.1	1,567	43.7	na	na
Black or African American	6,413	70.6	3,807	73.9	2,606	65.7	271	57.9	na	na
Native Hawaiian or Other Pacific Islander	115	63.5	61	65.6	54	61.1	9	44.4	na	na
White	44,818	61.7	18,595	65.9	26,223	58.7	4,729	50.3	na	na
More than one race	3,271	64.1	1,425	67.2	1,846	61.7	178	48.3	na	na
Unknown ethnicity and race	3,271	61.8	1,550	66.0	1,721	58.0	720	50.4	na	na
Temporary visa holders	23,496	60.3	7,615	67.1	15,881	57.0	11,319	44.2	na	na
Computer and information sciences	150,555	32.5	129,972	33.2	20,583	27.9	859	27.2	507	28.0
U.S. citizens and permanent residents ^a	55,394	29.2	47,610	29.3	7,784	28.7	340	32.1	na	na
Hispanic or Latino	5,615	28.1	5,083	28.0	532	28.9	18	27.8	na	na
Not Hispanic or Latino										
American Indian or Alaska Native	121	33.9	96	32.3	25	40.0	0	-	na	na
Asian	13,558	33.4	11,960	33.4	1,598	32.8	74	32.4	na	na
Black or African American	5,590	38.2	4,989	38.0	601	39.9	12	33.3	na	na
Native Hawaiian or Other Pacific Islander	93	26.9	80	22.5	13	53.8	0	-	na	na
White	25,030	24.9	20,862	25.0	4,168	24.9	188	34.0	na	na
More than one race	2,028	31.2	1,695	30.8	333	33.0	6	16.7	na	na
Unknown ethnicity and race	3,359	29.9	2,845	29.8	514	30.0	42	26.2	na	na
Temporary visa holders	95,161	34.4	82,362	35.4	12,799	27.4	519	24.1	na	na
Geosciences, atmospheric sciences, and ocean sciences	11,970	51.9	5,186	53.0	6,784	50.9	1,787	42.2	2,448	33.5
U.S. citizens and permanent residents ^a	9,294	55.2	4,585	54.8	4,709	55.6	916	47.5	na	na
Hispanic or Latino	1,109	57.1	578	58.0	531	56.1	77	51.9	na	na
Not Hispanic or Latino										
American Indian or Alaska Native	34	64.7	18	66.7	16	62.5	6	50.0	na	na
Asian	417	62.4	154	67.5	263	59.3	86	43.0	na	na

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(Number and percent)

Citizenship, ethnicity, race, and field	Graduate students						Postdoctoral appointees		Doctorate-holding nonfaculty researchers	
	All graduate students		Master's		Doctoral		Total number	Percent female	Total number	Percent female
	Total number	Percent female	Total number	Percent female	Total number	Percent female				
Black or African American	313	55.6	161	59.6	152	51.3	20	70.0	na	na
Native Hawaiian or Other Pacific Islander	6	83.3	3	100.0	3	66.7	2	50.0	na	na
White	6,686	54.2	3,364	53.3	3,322	55.1	592	47.3	na	na
More than one race	426	58.7	193	54.9	233	61.8	38	47.4	na	na
Unknown ethnicity and race	303	53.1	114	54.4	189	52.4	95	44.2	na	na
Temporary visa holders	2,676	40.3	601	39.8	2,075	40.5	871	36.7	na	na
Mathematics and statistics	34,387	36.3	20,798	40.4	13,589	29.9	1,110	24.5	251	29.5
U.S. citizens and permanent residents ^a	16,331	33.6	9,599	37.3	6,732	28.3	554	26.7	na	na
Hispanic or Latino	1,926	34.2	1,272	37.8	654	27.1	32	15.6	na	na
Not Hispanic or Latino										
American Indian or Alaska Native	37	35.1	23	34.8	14	35.7	3	33.3	na	na
Asian	2,686	38.5	1,719	42.0	967	32.2	103	30.1	na	na
Black or African American	737	41.5	514	44.2	223	35.4	21	23.8	na	na
Native Hawaiian or Other Pacific Islander	12	50.0	8	50.0	4	50.0	1	0.0	na	na
White	9,472	31.8	5,233	35.6	4,239	27.0	323	25.4	na	na
More than one race	563	32.3	312	33.3	251	31.1	18	44.4	na	na
Unknown ethnicity and race	898	30.8	518	32.8	380	28.2	53	30.2	na	na
Temporary visa holders	18,056	38.7	11,199	43.1	6,857	31.5	556	22.3	na	na
Multidisciplinary and interdisciplinary sciences	20,945	50.7	16,931	49.8	4,014	54.4	840	45.7	931	43.0
U.S. citizens and permanent residents ^a	13,232	53.0	10,514	52.0	2,718	56.7	423	54.1	na	na
Hispanic or Latino	1,698	55.8	1,398	55.2	300	58.3	27	59.3	na	na
Not Hispanic or Latino										
American Indian or Alaska Native	32	40.6	25	36.0	7	57.1	2	50.0	na	na
Asian	1,927	53.7	1,642	52.9	285	58.6	69	55.1	na	na
Black or African American	1,218	59.4	1,009	58.4	209	64.1	19	52.6	na	na
Native Hawaiian or Other Pacific Islander	21	47.6	14	35.7	7	71.4	4	25.0	na	na
White	7,096	51.2	5,431	50.0	1,665	55.3	250	53.6	na	na
More than one race	501	58.1	384	57.0	117	61.5	13	76.9	na	na
Unknown ethnicity and race	739	48.8	611	48.6	128	50.0	39	48.7	na	na
Temporary visa holders	7,713	46.7	6,417	46.1	1,296	49.5	417	37.2	na	na
Natural resources and conservation	13,762	60.2	9,807	61.4	3,955	57.3	936	46.0	605	39.0
U.S. citizens and permanent residents ^a	11,675	61.7	8,779	62.2	2,896	59.9	585	50.1	na	na
Hispanic or Latino	1,290	65.6	1,008	65.4	282	66.3	37	43.2	na	na

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	All graduate students		Master's		Doctoral		Total number	Percent female	Total number	Percent female
	Total number	Percent female	Total number	Percent female	Total number	Percent female				
Not Hispanic or Latino										
American Indian or Alaska Native	121	63.6	74	62.2	47	66.0	2	0.0	na	na
Asian	484	65.7	338	68.0	146	60.3	42	33.3	na	na
Black or African American	478	61.3	306	61.1	172	61.6	11	54.5	na	na
Native Hawaiian or Other Pacific Islander	31	71.0	27	77.8	4	25.0	2	50.0	na	na
White	8,430	60.6	6,435	61.3	1,995	58.6	392	52.6	na	na
More than one race	454	69.8	349	68.8	105	73.3	23	56.5	na	na
Unknown ethnicity and race	387	55.6	242	57.4	145	52.4	76	48.7	na	na
Temporary visa holders	2,087	52.0	1,028	54.1	1,059	50.0	351	39.3	na	na
Physical sciences	44,092	36.8	6,256	39.6	37,836	36.4	6,877	25.8	2,894	23.2
U.S. citizens and permanent residents ^a	26,689	37.8	4,633	40.5	22,056	37.3	2,716	27.3	na	na
Hispanic or Latino	3,288	37.8	737	39.2	2,551	37.4	145	29.7	na	na
Not Hispanic or Latino										
American Indian or Alaska Native	66	31.8	29	41.4	37	24.3	3	66.7	na	na
Asian	2,789	44.0	446	46.0	2,343	43.6	552	27.2	na	na
Black or African American	1,143	49.9	314	52.9	829	48.7	55	30.9	na	na
Native Hawaiian or Other Pacific Islander	18	33.3	5	20.0	13	38.5	1	0.0	na	na
White	17,289	36.2	2,719	39.1	14,570	35.7	1,564	27.2	na	na
More than one race	1,062	40.5	194	40.7	868	40.4	72	30.6	na	na
Unknown ethnicity and race	1,034	33.0	189	31.7	845	33.3	324	25.3	na	na
Temporary visa holders	17,403	35.3	1,623	37.2	15,780	35.1	4,161	24.7	na	na
Psychology	69,442	80.3	48,321	82.3	21,121	75.8	1,308	65.6	786	66.8
U.S. citizens and permanent residents ^a	64,364	80.6	45,829	82.3	18,535	76.3	959	68.1	na	na
Hispanic or Latino	13,177	81.4	10,130	82.9	3,047	76.1	104	75.0	na	na
Not Hispanic or Latino										
American Indian or Alaska Native	264	80.7	164	81.1	100	80.0	2	100.0	na	na
Asian	3,967	80.7	2,496	82.0	1,471	78.5	105	63.8	na	na
Black or African American	6,991	81.8	5,173	82.9	1,818	78.8	47	85.1	na	na
Native Hawaiian or Other Pacific Islander	115	76.5	99	77.8	16	68.8	1	100.0	na	na
White	34,375	80.4	23,784	82.5	10,591	75.6	591	65.8	na	na
More than one race	2,558	78.8	1,725	80.6	833	75.0	27	81.5	na	na
Unknown ethnicity and race	2,917	78.6	2,258	79.1	659	76.9	82	65.9	na	na
Temporary visa holders	5,078	76.6	2,492	80.8	2,586	72.6	349	58.7	na	na
Social sciences	78,717	55.1	44,701	56.8	34,016	52.8	1,666	51.6	1,726	54.2

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	All graduate students		Master's		Doctoral		Total number	Percent female	Total number	Percent female
	Total number	Percent female	Total number	Percent female	Total number	Percent female				
U.S. citizens and permanent residents ^a	56,826	56.8	35,701	57.2	21,125	55.9	1,116	52.8	na	na
Hispanic or Latino	8,828	60.6	6,156	61.0	2,672	59.8	105	49.5	na	na
Not Hispanic or Latino										
American Indian or Alaska Native	392	68.4	211	64.9	181	72.4	7	57.1	na	na
Asian	3,993	61.4	2,282	62.7	1,711	59.6	123	64.2	na	na
Black or African American	6,374	63.5	4,173	64.5	2,201	61.6	83	62.7	na	na
Native Hawaiian or Other Pacific Islander	112	50.0	72	48.6	40	52.5	3	100.0	na	na
White	32,084	54.0	19,959	54.2	12,125	53.6	638	48.3	na	na
More than one race	2,293	62.1	1,426	61.9	867	62.6	33	75.8	na	na
Unknown ethnicity and race	2,750	49.0	1,422	48.5	1,328	49.5	124	53.2	na	na
Temporary visa holders	21,891	50.7	9,000	55.0	12,891	47.6	550	49.1	na	na

- = not calculable. na = not applicable; citizenship and race and ethnicity data are not collected for doctorate-holding nonfaculty researchers.

^a Ethnicity and race data are available only for U.S. citizens and permanent residents.

Note(s):

For postdoctoral appointees and doctorate-holding nonfaculty researchers, "field" refers to the field of the unit that reports information on these groups to the Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS). For more information on the mapping of GSS 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, 2022.