

TABLE 4-4b

Citizenship, ethnicity, and race of master's students, by detailed field: 2021

(Number and percent)

Detailed field	Total		U.S. citizens and permanent residents																Temporary visa holders	
			Hispanic or Latino		Not Hispanic or Latino										Unknown ethnicity and race					
					American Indian or Alaska Native		Asian		Black or African American		Native Hawaiian or Other Pacific Islander		White				More than one race			
Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	
All detailed fields	466,613	100.0	48,681	100.0	1,356	100.0	40,607	100.0	33,129	100.0	597	100.0	184,608	100.0	12,301	100.0	16,376	100.0	128,958	100.0
Science	305,796	65.5	32,387	66.5	845	62.3	25,795	63.5	22,257	67.2	410	68.7	118,785	64.3	8,022	65.2	11,342	69.3	85,953	66.7
Agricultural and veterinary sciences	6,801	1.5	700	1.4	22	1.6	262	0.6	306	0.9	12	2.0	3,978	2.2	168	1.4	157	1.0	1,196	0.9
Agricultural sciences	5,790	1.2	601	1.2	22	1.6	196	0.5	263	0.8	11	1.8	3,396	1.8	138	1.1	141	0.9	1,022	0.8
Veterinary biomedical and clinical sciences	1,011	0.2	99	0.2	0	0.0	66	0.2	43	0.1	1	0.2	582	0.3	30	0.2	16	0.1	174	0.1
Biological and biomedical sciences	42,728	9.2	5,037	10.3	104	7.7	4,999	12.3	4,067	12.3	86	14.4	19,656	10.6	1,353	11.0	1,568	9.6	5,858	4.5
Biochemistry	1,005	0.2	147	0.3	4	0.3	97	0.2	56	0.2	2	0.3	395	0.2	25	0.2	55	0.3	224	0.2
Biology	8,294	1.8	1,105	2.3	30	2.2	549	1.4	659	2.0	21	3.5	4,714	2.6	293	2.4	215	1.3	708	0.5
Biomedical sciences	5,794	1.2	697	1.4	9	0.7	1,121	2.8	1,012	3.1	12	2.0	2,148	1.2	162	1.3	183	1.1	450	0.3
Biophysics	6	*	0	0.0	0	0.0	2	*	0	0.0	0	0.0	3	*	0	0.0	1	*	0	0.0
Biostatistics and bioinformatics	3,519	0.8	204	0.4	6	0.4	542	1.3	150	0.5	1	0.2	1,044	0.6	76	0.6	95	0.6	1,401	1.1
Biotechnology	3,395	0.7	389	0.8	8	0.6	515	1.3	355	1.1	4	0.7	1,225	0.7	111	0.9	127	0.8	661	0.5
Botany and plant biology	363	0.1	38	0.1	0	0.0	9	*	10	*	1	0.2	207	0.1	13	0.1	11	0.1	74	0.1
Cell, cellular biology, and anatomical sciences	1,210	0.3	165	0.3	3	0.2	140	0.3	81	0.2	4	0.7	492	0.3	61	0.5	94	0.6	170	0.1
Ecology and population biology	1,201	0.3	101	0.2	8	0.6	27	0.1	32	0.1	5	0.8	849	0.5	40	0.3	50	0.3	89	0.1
Epidemiology	3,623	0.8	459	0.9	3	0.2	527	1.3	376	1.1	5	0.8	1,372	0.7	110	0.9	112	0.7	659	0.5
Genetics	718	0.2	60	0.1	3	0.2	81	0.2	32	0.1	2	0.3	418	0.2	30	0.2	21	0.1	71	0.1
Microbiological sciences and immunology	2,011	0.4	335	0.7	6	0.4	209	0.5	133	0.4	1	0.2	964	0.5	69	0.6	104	0.6	190	0.1
Molecular biology	405	0.1	55	0.1	0	0.0	47	0.1	38	0.1	1	0.2	171	0.1	14	0.1	17	0.1	62	*
Neurobiology and neuroscience	591	0.1	96	0.2	2	0.1	79	0.2	39	0.1	1	0.2	285	0.2	15	0.1	20	0.1	54	*
Nutrition science	2,871	0.6	331	0.7	8	0.6	220	0.5	140	0.4	2	0.3	1,679	0.9	82	0.7	130	0.8	279	0.2
Pathology and experimental pathology	100	*	5	*	0	0.0	13	*	6	*	1	0.2	43	*	4	*	1	*	27	*
Pharmacology and toxicology	926	0.2	74	0.2	2	0.1	128	0.3	48	0.1	1	0.2	397	0.2	13	0.1	33	0.2	230	0.2
Physiology	2,898	0.6	292	0.6	5	0.4	335	0.8	323	1.0	6	1.0	1,403	0.8	110	0.9	140	0.9	284	0.2
Zoology and animal biology	927	0.2	75	0.2	4	0.3	24	0.1	37	0.1	0	0.0	644	0.3	33	0.3	24	0.1	86	0.1
Biological and biomedical sciences nec	2,871	0.6	409	0.8	3	0.2	334	0.8	540	1.6	16	2.7	1,203	0.7	92	0.7	135	0.8	139	0.1
Computer and information sciences	102,199	21.9	5,106	10.5	121	8.9	11,428	28.1	5,390	16.3	76	12.7	22,742	12.3	1,742	14.2	2,965	18.1	52,629	40.8
Artificial intelligence, informatics, and computer and information science topics	4,504	1.0	223	0.5	15	1.1	479	1.2	219	0.7	1	0.2	1,191	0.6	70	0.6	99	0.6	2,207	1.7
Computer and information sciences	30,804	6.6	1,391	2.9	23	1.7	3,898	9.6	860	2.6	18	3.0	6,939	3.8	507	4.1	511	3.1	16,657	12.9
Computer and information systems security	8,401	1.8	794	1.6	19	1.4	1,039	2.6	1,430	4.3	12	2.0	2,933	1.6	253	2.1	493	3.0	1,428	1.1

TABLE 4-4b

Citizenship, ethnicity, and race of master's students, by detailed field: 2021

(Number and percent)

Detailed field	Total		U.S. citizens and permanent residents																		Temporary visa holders	
			Hispanic or Latino		Not Hispanic or Latino														Unknown ethnicity and race			
					American Indian or Alaska Native		Asian		Black or African American		Native Hawaiian or Other Pacific Islander		White		More than one race							
					Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent				
Computer science	30,361	6.5	806	1.7	20	1.5	2,965	7.3	552	1.7	11	1.8	4,316	2.3	379	3.1	785	4.8	20,527	15.9		
Information science and studies	13,098	2.8	854	1.8	16	1.2	1,537	3.8	1,331	4.0	18	3.0	3,776	2.0	245	2.0	519	3.2	4,802	3.7		
Information technology	7,527	1.6	502	1.0	18	1.3	787	1.9	515	1.6	9	1.5	1,493	0.8	137	1.1	181	1.1	3,885	3.0		
Computer and information sciences nec	7,504	1.6	536	1.1	10	0.7	723	1.8	483	1.5	7	1.2	2,094	1.1	151	1.2	377	2.3	3,123	2.4		
Geosciences, atmospheric sciences, and ocean sciences	5,520	1.2	571	1.2	18	1.3	168	0.4	159	0.5	6	1.0	3,748	2.0	186	1.5	161	1.0	503	0.4		
Atmospheric sciences and meteorology	487	0.1	29	0.1	1	0.1	14	*	11	*	1	0.2	333	0.2	22	0.2	11	0.1	65	0.1		
Geological and earth sciences	3,534	0.8	378	0.8	17	1.3	110	0.3	101	0.3	2	0.3	2,382	1.3	104	0.8	93	0.6	347	0.3		
Ocean and marine sciences	1,499	0.3	164	0.3	0	0.0	44	0.1	47	0.1	3	0.5	1,033	0.6	60	0.5	57	0.3	91	0.1		
Geosciences, atmospheric sciences, and ocean sciences nec	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	
Mathematics and statistics	20,639	4.4	1,310	2.7	22	1.6	1,951	4.8	535	1.6	9	1.5	5,913	3.2	309	2.5	502	3.1	10,088	7.8		
Applied mathematics	8,899	1.9	389	0.8	5	0.4	662	1.6	148	0.4	4	0.7	1,597	0.9	99	0.8	178	1.1	5,817	4.5		
Mathematics	4,164	0.9	490	1.0	10	0.7	291	0.7	178	0.5	0	0.0	2,134	1.2	92	0.7	136	0.8	833	0.6		
Statistics	7,576	1.6	431	0.9	7	0.5	998	2.5	209	0.6	5	0.8	2,182	1.2	118	1.0	188	1.1	3,438	2.7		
Multidisciplinary and interdisciplinary studies	11,994	2.6	1,228	2.5	20	1.5	1,237	3.0	754	2.3	11	1.8	4,766	2.6	344	2.8	371	2.3	3,263	2.5		
Biological and physical sciences	874	0.2	88	0.2	1	0.1	115	0.3	65	0.2	1	0.2	349	0.2	37	0.3	41	0.3	177	0.1		
Computational science	2,088	0.4	130	0.3	3	0.2	212	0.5	67	0.2	3	0.5	773	0.4	47	0.4	40	0.2	813	0.6		
Data science and data analytics	2,358	0.5	229	0.5	2	0.1	324	0.8	100	0.3	2	0.3	955	0.5	50	0.4	67	0.4	629	0.5		
International and global studies	1,267	0.3	247	0.5	1	0.1	100	0.2	111	0.3	0	0.0	557	0.3	49	0.4	49	0.3	153	0.1		
Multidisciplinary and interdisciplinary studies nec	5,407	1.2	534	1.1	13	1.0	486	1.2	411	1.2	5	0.8	2,132	1.2	161	1.3	174	1.1	1,491	1.2		
Natural resources and conservation	10,012	2.1	1,028	2.1	81	6.0	344	0.8	335	1.0	31	5.2	6,611	3.6	386	3.1	279	1.7	917	0.7		
Environmental science and studies	4,851	1.0	602	1.2	39	2.9	217	0.5	155	0.5	24	4.0	2,975	1.6	168	1.4	134	0.8	537	0.4		
Forestry, natural resources, and conservation	5,161	1.1	426	0.9	42	3.1	127	0.3	180	0.5	7	1.2	3,636	2.0	218	1.8	145	0.9	380	0.3		
Physical sciences	6,409	1.4	782	1.6	24	1.8	463	1.1	334	1.0	7	1.2	2,964	1.6	177	1.4	187	1.1	1,471	1.1		
Astronomy and astrophysics	85	*	12	*	0	0.0	11	*	4	*	0	0.0	40	*	4	*	3	*	11	*		
Chemistry	3,066	0.7	419	0.9	13	1.0	246	0.6	220	0.7	6	1.0	1,359	0.7	74	0.6	72	0.4	657	0.5		
Materials sciences	439	0.1	37	0.1	0	0.0	41	0.1	16	*	0	0.0	131	0.1	7	0.1	8	*	199	0.2		
Physics	2,278	0.5	280	0.6	9	0.7	135	0.3	72	0.2	1	0.2	1,085	0.6	70	0.6	81	0.5	545	0.4		
Physical sciences nec	541	0.1	34	0.1	2	0.1	30	0.1	22	0.1	0	0.0	349	0.2	22	0.2	23	0.1	59	*		
Psychology	51,878	11.1	10,248	21.1	195	14.4	2,483	6.1	5,808	17.5	91	15.2	26,061	14.1	1,886	15.3	3,268	20.0	1,838	1.4		
Applied psychology	19,517	4.2	4,293	8.8	55	4.1	1,004	2.5	1,763	5.3	32	5.4	10,110	5.5	675	5.5	1,104	6.7	481	0.4		

TABLE 4-4b

Citizenship, ethnicity, and race of master's students, by detailed field: 2021

(Number and percent)

Detailed field	Total		U.S. citizens and permanent residents																	Temporary visa holders	
			Hispanic or Latino		Not Hispanic or Latino												Unknown ethnicity and race				
					American Indian or Alaska Native		Asian		Black or African American		Native Hawaiian or Other Pacific Islander		White		More than one race						
					Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent			Number		
Clinical psychology	4,167	0.9	1,116	2.3	14	1.0	262	0.6	366	1.1	22	3.7	1,844	1.0	240	2.0	153	0.9	150	0.1	
Counseling psychology	16,965	3.6	2,953	6.1	86	6.3	591	1.5	2,416	7.3	24	4.0	8,450	4.6	562	4.6	1,637	10.0	246	0.2	
Human development	1,566	0.3	263	0.5	9	0.7	59	0.1	149	0.4	1	0.2	883	0.5	44	0.4	68	0.4	90	0.1	
Psychology, general	7,329	1.6	1,240	2.5	25	1.8	365	0.9	890	2.7	10	1.7	3,742	2.0	301	2.4	218	1.3	538	0.4	
Research and experimental psychology	2,334	0.5	383	0.8	6	0.4	202	0.5	224	0.7	2	0.3	1,032	0.6	64	0.5	88	0.5	333	0.3	
Social sciences	47,616	10.2	6,377	13.1	238	17.6	2,460	6.1	4,569	13.8	81	13.6	22,346	12.1	1,471	12.0	1,884	11.5	8,190	6.4	
Agricultural and natural resource economics	672	0.1	46	0.1	4	0.3	17	*	19	0.1	0	0.0	341	0.2	10	0.1	12	0.1	223	0.2	
Anthropology	2,292	0.5	337	0.7	27	2.0	62	0.2	95	0.3	1	0.2	1,473	0.8	117	1.0	73	0.4	107	0.1	
Area, ethnic, cultural, gender, and group studies	2,767	0.6	582	1.2	47	3.5	191	0.5	262	0.8	25	4.2	974	0.5	130	1.1	76	0.5	480	0.4	
Criminal justice and safety studies	5,602	1.2	963	2.0	25	1.8	144	0.4	1,160	3.5	12	2.0	2,688	1.5	207	1.7	307	1.9	96	0.1	
Criminology	1,272	0.3	237	0.5	6	0.4	26	0.1	161	0.5	4	0.7	659	0.4	50	0.4	29	0.2	100	0.1	
Economics (except agricultural and natural resource)	6,882	1.5	512	1.1	10	0.7	386	1.0	239	0.7	10	1.7	2,046	1.1	113	0.9	207	1.3	3,359	2.6	
Geography and cartography	3,147	0.7	328	0.7	23	1.7	112	0.3	108	0.3	1	0.2	2,009	1.1	75	0.6	111	0.7	380	0.3	
International relations and national security studies	8,308	1.8	1,027	2.1	22	1.6	502	1.2	653	2.0	16	2.7	4,270	2.3	267	2.2	479	2.9	1,072	0.8	
Linguistics	1,188	0.3	163	0.3	14	1.0	89	0.2	51	0.2	2	0.3	601	0.3	33	0.3	52	0.3	183	0.1	
Political science and government	3,270	0.7	505	1.0	14	1.0	132	0.3	303	0.9	4	0.7	1,722	0.9	103	0.8	143	0.9	344	0.3	
Public policy analysis	7,290	1.6	850	1.7	27	2.0	579	1.4	681	2.1	2	0.3	3,424	1.9	181	1.5	220	1.3	1,326	1.0	
Sociology and population studies	2,331	0.5	526	1.1	10	0.7	87	0.2	395	1.2	4	0.7	970	0.5	99	0.8	78	0.5	162	0.1	
Urban studies and affairs	827	0.2	108	0.2	1	0.1	47	0.1	139	0.4	0	0.0	427	0.2	32	0.3	21	0.1	52	*	
Social sciences, other	1,768	0.4	193	0.4	8	0.6	86	0.2	303	0.9	0	0.0	742	0.4	54	0.4	76	0.5	306	0.2	
Engineering	95,126	20.4	7,612	15.6	205	15.1	8,685	21.4	3,141	9.5	70	11.7	32,987	17.9	2,155	17.5	2,178	13.3	38,093	29.5	
Aerospace, aeronautical, and astronautical engineering	5,065	1.1	545	1.1	12	0.9	559	1.4	114	0.3	8	1.3	2,840	1.5	189	1.5	135	0.8	663	0.5	
Biological, biomedical, and biosystems engineering	5,192	1.1	408	0.8	4	0.3	795	2.0	230	0.7	6	1.0	1,953	1.1	168	1.4	118	0.7	1,510	1.2	
Chemical, petroleum, and chemical-related engineering	2,983	0.6	244	0.5	10	0.7	283	0.7	109	0.3	0	0.0	988	0.5	75	0.6	70	0.4	1,204	0.9	
Chemical engineering	2,555	0.5	212	0.4	7	0.5	269	0.7	78	0.2	0	0.0	893	0.5	66	0.5	60	0.4	970	0.8	
Petroleum engineering	428	0.1	32	0.1	3	0.2	14	*	31	0.1	0	0.0	95	0.1	9	0.1	10	0.1	234	0.2	
Civil, environmental, transportation and related engineering fields	11,730	2.5	1,196	2.5	41	3.0	923	2.3	409	1.2	12	2.0	4,604	2.5	267	2.2	253	1.5	4,025	3.1	
Civil engineering	9,352	2.0	957	2.0	35	2.6	774	1.9	320	1.0	10	1.7	3,657	2.0	213	1.7	195	1.2	3,191	2.5	
Architectural, environmental, construction and surveying engineering	2,378	0.5	239	0.5	6	0.4	149	0.4	89	0.3	2	0.3	947	0.5	54	0.4	58	0.4	834	0.6	

TABLE 4-4b

Citizenship, ethnicity, and race of master's students, by detailed field: 2021

(Number and percent)

Detailed field	Total		U.S. citizens and permanent residents																Temporary visa holders					
			Hispanic or Latino		Not Hispanic or Latino												Unknown ethnicity and race							
					American Indian or Alaska Native		Asian		Black or African American		Native Hawaiian or Other Pacific Islander		White		More than one race									
					Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent					Number	Percent		
Pediatrics	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Psychiatry	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Pulmonary disease	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Radiological sciences	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Surgery	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Clinical medicine nec	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Other health	31,670	6.8	4,320	8.9	107	7.9	2,106	5.2	2,456	7.4	47	7.9	18,444	10.0	892	7.3	1,164	7.1	2,134	1.7				
Communication disorders sciences	17,406	3.7	2,526	5.2	70	5.2	824	2.0	833	2.5	20	3.4	11,774	6.4	463	3.8	682	4.2	214	0.2				
Dental sciences	1,500	0.3	93	0.2	1	0.1	250	0.6	62	0.2	2	0.3	674	0.4	38	0.3	83	0.5	297	0.2				
Kinesiology and exercise science	4,962	1.1	803	1.6	17	1.3	138	0.3	644	1.9	13	2.2	2,672	1.4	186	1.5	118	0.7	371	0.3				
Nursing science	1,662	0.4	203	0.4	5	0.4	101	0.2	184	0.6	1	0.2	1,048	0.6	34	0.3	62	0.4	24	*				
Pharmaceutical sciences	1,939	0.4	128	0.3	4	0.3	192	0.5	203	0.6	1	0.2	695	0.4	52	0.4	49	0.3	615	0.5				
Other health nec	4,201	0.9	567	1.2	10	0.7	601	1.5	530	1.6	10	1.7	1,581	0.9	119	1.0	170	1.0	613	0.5				

* = value < 0.05%; ne = not eligible.

nec = not elsewhere classified.

^a Clinical medicine includes graduate students in public health and in medical clinical sciences and clinical and medical laboratory sciences.**Note(s):**

Percentages may not add to total because of rounding. Ethnicity and race data are available only for U.S. citizens and permanent residents. 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.