

Table 5-2

Research doctorate recipients who earned a bachelor's degree related to doctorate, by sex, citizenship status, ethnicity, race, and broad field of doctorate: 2021

(Percent)

Demographic characteristic	All fields	Science and engineering											Non-science and engineering							
		Total	Agricultural sciences and natural resources	Biological and biomedical sciences	Computer and information sciences	Engineering	Geosciences, atmospheric, and ocean sciences	Health sciences	Mathematics and statistics	Multidisciplinary/ interdisciplinary sciences	Physical sciences	Psychology	Social sciences	Total	Business	Education	Humanities	Visual and performing arts	Other ^a	
Doctorate recipients reporting bachelor's degree	98.4	98.4	96.5	98.2	98.2	99.0	98.8	96.3	98.9	98.4	98.8	98.6	98.5	98.3	97.9	98.4	98.2	98.9	98.4	
Sex																				
Male	98.4	98.5	95.7	98.2	98.6	99.0	98.6	95.2	98.9	98.2	98.6	98.3	98.4	98.4	98.5	98.4	98.4	99.1	98.1	
Female	98.3	98.4	97.3	98.3	96.8	98.8	99.1	96.8	99.0	98.8	99.1	98.8	98.6	98.3	97.2	98.4	98.1	98.8	98.5	
Citizenship status																				
U.S. citizen or permanent resident	99.5	99.5	D	99.4	99.3	99.8	D	97.7	99.9	100.0	99.7	99.7	99.7	99.6	99.3	99.6	99.6	100.0	99.5	
Temporary visa holder	98.6	98.5	94.7	96.7	99.4	99.3	D	94.7	D	98.9	98.7	99.3	99.1	98.7	98.7	99.8	97.4	97.9	99.1	
Ethnicity and race (U.S. citizens and permanent residents)																				
Hispanic or Latino	99.2	99.3	D	99.3	100.0	100.0	100.0	95.0	100.0	100.0	100.0	99.4	D	99.0	100.0	99.3	99.6	100.0	96.3	
Not Hispanic or Latino																				
American Indian or Alaska Native	99.0	98.5	D	D	-	100.0	D	D	-	D	100.0	100.0	100.0	100.0	D	100.0	D	D	100.0	
Asian	99.3	99.3	100.0	98.7	100.0	D	100.0	D	100.0	100.0	99.2	100.0	100.0	99.8	100.0	99.4	100.0	100.0	100.0	
Black or African American	99.3	99.2	100.0	D	D	D	100.0	D	100.0	D	100.0	99.2	100.0	99.5	D	99.6	D	100.0	D	
White	99.6	99.6	100.0	99.5	D	99.8	D	97.8	D	100.0	99.8	99.8	99.7	99.7	D	99.7	99.6	100.0	D	
More than one race	99.9	99.9	100.0	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
Other race or race not reported	99.2	99.6	D	100.0	100.0	100.0	D	100.0	100.0	D	100.0	100.0	97.2	97.8	83.3	100.0	D	D	100.0	
Ethnicity not reported	99.5	99.3	100.0	100.0	100.0	100.0	100.0	100.0	D	D	96.2	98.0	D	100.0	100.0	100.0	100.0	100.0	100.0	
Bachelor's degree in the same field as doctorate	61.7	65.8	49.6	64.3	40.9	82.3	53.0	44.5	80.1	12.3	78.6	72.7	56.2	45.4	36.5	25.4	73.4	69.1	35.9	
Sex																				
Male	64.5	67.7	52.9	62.7	41.7	83.8	55.0	36.0	79.7	12.8	78.6	69.6	58.4	48.0	32.7	24.3	73.6	67.6	34.5	
Female	58.3	63.4	46.3	65.7	38.4	78.0	50.6	48.3	80.9	11.5	78.4	73.8	54.0	43.4	41.2	25.8	73.2	70.3	37.0	
Citizenship status																				
U.S. citizen or permanent resident	61.4	66.5	46.9	69.1	46.3	80.7	53.2	42.2	83.3	11.4	81.1	75.0	57.1	45.3	36.4	24.5	74.8	70.6	32.5	
Temporary visa holder	64.0	66.4	54.9	52.0	39.0	84.5	54.4	55.1	78.6	13.7	76.2	63.0	56.6	48.2	37.9	33.8	71.0	66.7	45.3	
Ethnicity and race (U.S. citizens and permanent residents)																				
Hispanic or Latino	61.1	67.8	34.1	72.4	61.3	82.3	46.8	33.1	85.7	16.7	79.9	80.6	55.2	40.1	39.3	16.4	69.3	62.8	33.7	
Not Hispanic or Latino																				
American Indian or Alaska Native	47.3	52.5	0.0	D	-	D	D	D	-	0.0	100.0	62.5	46.7	36.7	D	33.3	D	D	0.0	
Asian	60.6	64.2	51.3	67.0	43.7	D	50.0	D	80.4	16.2	73.7	75.1	51.0	40.7	35.1	17.5	70.3	74.2	36.9	
Black or African American	46.2	57.5	31.0	D	47.2	79.4	69.2	D	64.3	D	76.7	68.2	51.6	28.7	D	18.3	D	76.5	D	
White	63.7	67.9	48.7	69.1	46.1	81.5	54.5	45.5	85.5	11.2	82.9	75.6	59.3	50.0	D	28.6	77.4	71.2	D	
More than one race	58.2	63.2	D	71.2	53.8	77.9	45.5	29.6	71.9	D	69.8	68.5	57.3	41.6	47.4	16.1	71.8	63.6	26.3	
Other race or race not reported	56.7	64.0	D	76.7	27.3	91.4	D	38.5	66.7	D	73.9	69.7	54.5	36.6	20.0	15.4	D	D	23.5	
Ethnicity not reported	51.5	55.8	50.0	64.3	42.9	60.0	50.0	28.6	70.0	0.0	81.3	52.6	44.4	38.5	25.0	22.2	84.6	60.0	8.3	

D = suppressed to avoid disclosure of confidential information; - = not calculable.

^a Includes other non-science and engineering fields not shown separately.

Note(s):

Percentages based on total number of doctorate recipients. Due to rounding, percentages may not sum to 100. A bachelor's degree is considered as related to doctorate if the doctorate recipient's first or most recent bachelor's degree and doctoral degree are both in the same major field category, except for engineering and education fields, where broad field categories need to be the same. Beginning in 2021, a modified version of the 2020 Classification of Instructional Programs (CIP) codes was used in the survey data collection, and the new broad, major, and detailed fields were used in tables reporting only the most recent data year. Therefore, the field of doctorate data in 2021 may not be comparable to prior years; see the "Technical Notes" for more information, table A-4 for a summary of SED-CIP codes in the new SED field taxonomy, table A-5 for a full list of SED-CIPs code in the new field taxonomy, and table A-6 for the SED-CIP code crosswalk to the historical field taxonomy.

Source(s):

National Center for Science and Engineering Statistics, Survey of Earned Doctorates.