

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: 2022

(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 non-science and engineering		
Doctorate recipients reporting bachelor's degree	98.4	98.4	97.6	98.1	98.1	98.9	98.5	96.3	99.2	98.4	98.7	98.6	98.8	98.4	98.3	98.3	98.7	98.8	98.8		
Sex																					
Male	98.4	98.4	97.9	98.0	97.9	98.9	98.8	95.3	99.1	98.4	98.6	98.3	98.8	98.5	98.3	98.9	98.6	98.8	98.8	99.4	97.6
Female	98.4	98.4	97.3	98.2	98.5	99.0	98.1	96.8	99.7	98.6	98.9	98.7	98.8	98.3	98.3	98.0	98.8	98.8	98.8	98.3	98.2
Citizenship status																					
U.S. citizen or permanent resident	99.5	99.4	99.2	99.3	99.3	99.7	100.0	97.9	99.9	99.6	99.6	99.6	99.8	99.5	99.4	99.6	99.7	99.7	99.8	99.5	99.2
Temporary visa holder	98.5	98.4	95.9	96.6	98.9	99.3	97.4	95.5	99.4	99.1	98.5	99.4	98.7	98.5	99.2	98.6	98.6	98.6	98.5	98.3	97.8
Ethnicity and race (U.S. citizens and permanent residents)																					
Hispanic or Latino	99.3	99.2	95.8	99.4	100.0	D	100.0	96.8	100.0	98.8	D	99.5	99.4	99.8	100.0	99.7	99.6	99.7	99.8	100.0	100.0
Not Hispanic or Latino																					
American Indian or Alaska Native	100.0	100.0	D	100.0	D	100.0	-	D	D	D	100.0	100.0	100.0	100.0	D	100.0	D	100.0	100.0	D	100.0
Asian	99.5	99.6	100.0	99.3	100.0	100.0	100.0	D	100.0	D	99.4	99.6	D	99.5	D	100.0	100.0	100.0	100.0	98.1	D
Black or African American	98.9	98.5	97.2	97.5	100.0	100.0	100.0	95.6	100.0	100.0	100.0	99.0	100.0	99.4	98.8	99.7	100.0	100.0	100.0	100.0	98.5
White	99.6	99.6	99.8	99.4	99.4	99.8	100.0	98.4	99.8	100.0	99.7	99.8	99.9	99.6	D	99.6	99.8	99.8	99.8	D	99.4
More than one race	99.5	99.8	100.0	100.0	100.0	100.0	100.0	D	100.0	D	100.0	100.0	D	98.3	100.0	D	97.4	100.0	100.0	D	D
Other race or race not reported	98.3	98.7	D	98.3	D	96.2	100.0	D	D	D	96.9	100.0	100.0	96.9	D	D	D	D	D	100.0	88.9
Ethnicity not reported	97.4	96.9	92.3	98.3	87.5	D	100.0	96.3	100.0	90.9	D	96.7	100.0	98.7	100.0	100.0	96.7	100.0	100.0	100.0	100.0
Bachelor's degree in the same field as doctorate	61.5	65.2	52.0	64.6	39.6	79.8	50.8	47.1	82.6	13.0	77.8	70.8	56.4	46.5	40.9	25.6	71.6	69.0	69.0	39.2	39.2
Sex																					
Male	64.0	66.8	54.0	61.6	41.0	81.2	52.4	39.0	83.1	13.6	78.7	70.8	59.7	48.6	37.6	23.0	71.8	71.9	71.9	36.7	36.7
Female	58.7	63.2	50.2	67.2	35.2	76.2	48.9	50.8	81.3	12.0	76.0	70.8	53.5	45.0	45.1	26.7	71.4	66.7	66.7	40.9	40.9
Citizenship status																					
U.S. citizen or permanent resident	62.0	67.0	47.9	70.0	44.7	80.8	52.2	44.3	84.8	13.0	80.7	73.4	57.2	46.0	38.6	24.3	72.7	70.4	70.4	37.8	37.8
Temporary visa holder	62.4	64.0	59.3	50.9	37.2	80.3	48.9	58.2	82.1	13.4	75.1	56.8	56.5	51.0	44.8	38.2	71.4	66.1	66.1	44.3	44.3
Ethnicity and race (U.S. citizens and permanent residents)																					
Hispanic or Latino	62.7	69.1	36.8	74.5	42.9	82.6	49.2	37.0	90.9	13.9	84.1	78.0	61.1	42.5	51.1	15.6	69.3	70.7	70.7	38.3	38.3
Not Hispanic or Latino																					
American Indian or Alaska Native	51.2	63.5	D	71.4	0.0	D	-	D	D	0.0	D	87.5	58.8	31.3	D	D	D	D	D	D	D
Asian	60.6	64.5	22.0	65.4	42.2	81.9	46.5	D	76.3	D	72.3	65.6	D	39.8	D	21.7	70.3	70.0	70.0	D	D
Black or African American	47.2	57.3	32.4	65.0	48.8	72.7	40.0	48.3	69.2	D	D	62.7	49.0	31.1	39.5	17.9	65.9	60.0	60.0	36.8	
White	64.0	68.2	53.2	70.4	44.2	81.3	53.9	45.2	86.3	11.5	82.1	75.4	58.4	50.0	D	28.2	74.1	74.1	74.1	39.0	
More than one race	64.3	68.2	29.4	74.5	56.0	76.2	40.9	D	87.8	D	79.4	75.0	D	48.7	66.7	21.5	75.3	75.0	75.0	34.8	
Other race or race not reported	53.5	56.3	D	64.4	62.5	D	50.0	D	D	5.9	75.0	48.0	37.1	45.6	D	D	D	D	D	50.0	
Ethnicity not reported	48.5	52.0	50.0	64.3	44.4	65.9	25.0	20.0	80.0	0.0	63.6	38.9	42.9	38.0	0.0	14.3	54.2	50.0	50.0	33.3	

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

Note(s):

Percentages based on total number of doctorate recipients. Due to rounding, percentages may not sum to 100. A bachelor's and doctoral degree are considered to be in the same field if doctorate recipient's first or most recent bachelor's degree is in the same broad field as their doctoral degree. Beginning in 2021, a modified version of the 2020 Classification of Instructional Programs (CIP) codes was used in the survey data collection, and new broad, major, and detailed fields are used in tables reporting data from 2021 to the present; see the field list in table A-4. Therefore, the field of doctorate data prior to 2021 may not be comparable to subsequent years. For more information, see the "Technical Notes" and the SED 2021 Taxonomy Changes Working Paper (available at <https://nces.nsf.gov/pubs/nces23200>).

Source(s):

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