

**Table 8-7****Geosciences, atmospheric, and ocean sciences research doctorate recipients, statistical profile by sex and major field of doctorate: 2021**

(Number, percent, and median years)

Characteristic	All geosciences, atmospheric, and ocean sciences fields	Geological and earth sciences	Ocean/ marine sciences and atmospheric science
All doctorate recipients (number) <sup>a</sup>	1,044	613	431
Sex (%)			
Male	55.8	58.6	52.0
Female	44.2	41.4	48.0
Unknown	0.0	0.0	0.0
Citizenship status (%)			
U.S. citizen or permanent resident	63.7	60.8	67.7
Temporary visa holder	32.2	34.4	29.0
Unknown	4.1	4.7	3.2
Marital status (%)			
Never married	38.4	37.4	39.9
Married	35.4	35.1	36.0
Marriage-like relationship	15.1	14.7	15.8
Separated, divorced, widowed	2.1	2.6	1.4
Unknown	8.9	10.3	7.0
Has dependent age 18 or younger (%)	15.0	16.6	12.8
Has one or more functional limitations (%)	11.1	11.7	10.3
Age at doctorate (median years)	30.7	30.8	30.4
Bachelor's in same field as doctorate (%) <sup>b</sup>	53.0	60.1	43.1
Master's earned (%)	69.9	71.3	68.0
Master's earned at same doctorate institution (%)	44.2	40.7	49.3
Time to doctorate (median years)			
Years since earning bachelor's degree	8.0	8.0	7.6
From graduate school start	6.8	6.9	6.6
From doctoral program start <sup>c</sup>	5.3	5.3	5.5
Received tuition remission (%)	88.4	89.6	86.9
Male doctorate recipients (number)	583	359	224
Citizenship status (%)			
U.S. citizen or permanent resident	59.2	57.4	62.1
Temporary visa holder	36.7	38.4	33.9
Unknown	4.1	4.2	4.0
Marital status (%)			
Never married	40.5	39.8	41.5
Married	37.2	37.0	37.5
Marriage-like relationship	12.0	D	D
Separated, divorced, widowed	1.5	D	D
Unknown	8.7	8.9	8.5
Has dependent age 18 or younger (%)	17.7	19.9	14.1
Has one or more functional limitations (%)	8.9	8.6	9.4
Age at doctorate (median years)	31.0	31.2	30.8
Bachelor's in same field as doctorate (%) <sup>b</sup>	55.0	60.8	45.5

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(Number, percent, and median years)

Characteristic	All geosciences, atmospheric, and ocean sciences fields	Geological and earth sciences	Ocean/ marine sciences and atmospheric science
Master's earned (%)	72.3	72.2	72.3
Master's earned at same doctorate institution (%)	43.0	38.5	50.0
Time to doctorate (median years)			
Years since earning bachelor's degree	8.0	8.0	7.9
From graduate school start	6.9	7.0	6.8
From doctoral program start <sup>c</sup>	5.3	5.3	5.6
Received tuition remission (%)	88.4	89.6	86.5
Female doctorate recipients (number)	461	254	207
Citizenship status (%)			
U.S. citizen or permanent resident	69.4	65.7	73.9
Temporary visa holder	26.5	28.7	23.7
Unknown	4.1	5.5	2.4
Marital status (%)			
Never married	35.8	33.9	38.2
Married	33.2	32.3	34.3
Marriage-like relationship	19.1	D	D
Separated, divorced, widowed	2.8	D	D
Unknown	9.1	12.2	5.3
Has dependent age 18 or younger (%)	11.5	11.7	11.3
Has one or more functional limitations (%)	13.9	16.3	11.2
Age at doctorate (median years)	30.2	30.2	30.0
Bachelor's in same field as doctorate (%) <sup>b</sup>	50.6	59.1	40.6
Master's earned (%)	67.0	70.0	63.5
Master's earned at same doctorate institution (%)	45.9	44.0	48.4
Time to doctorate (median years)			
Years since earning bachelor's degree	7.8	8.0	7.5
From graduate school start	6.7	6.7	6.5
From doctoral program start <sup>c</sup>	5.3	5.3	5.5
Received tuition remission (%)	88.5	89.5	87.3

D = suppressed to avoid disclosure of confidential information.

<sup>a</sup> Includes respondents who did not report sex.<sup>b</sup> A bachelor's degree is counted as in same field as doctorate if the fields of study of the doctorate recipient's first or most recent bachelor's degree and doctoral degree are both in the same broad field category.<sup>c</sup> Time to doctorate from doctoral program start is based on master's degree entry if the master's degree was at the doctorate institution in the same field of study or was a prerequisite to the doctorate; otherwise, it is based on doctoral program entry.**Note(s):**

Due to rounding, percentages may not sum to 100. 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-CIP codes 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.