

Table 8-2

Non-science and engineering research doctorate recipients, statistical profile by sex and broad field of doctorate: 2022

(Number, percent, and median years)

| Characteristic | All fields | Non-science and engineering | | | | | |
|--|------------|-----------------------------|----------|-----------|------------|----------------------------|-----------------------------------|
| | | Total | Business | Education | Humanities | Visual and performing arts | Other non-science and engineering |
| All doctorate recipients (number) ^a | 57,596 | 11,672 | 1,401 | 3,919 | 3,369 | 842 | 2,141 |
| Sex (%) | | | | | | | |
| Male | 53.0 | 41.5 | 55.7 | 29.4 | 50.7 | 43.1 | 39.0 |
| Female | 47.0 | 58.5 | 44.3 | 70.6 | 49.2 | 56.9 | 60.9 |
| Unknown | * | * | 0.0 | 0.0 | 0.1 | 0.0 | 0.1 |
| Citizenship status (%) | | | | | | | |
| U.S. citizen or permanent resident | 61.3 | 72.9 | 46.5 | 81.8 | 78.2 | 73.5 | 65.4 |
| Temporary visa holder | 34.1 | 21.5 | 47.6 | 12.7 | 16.6 | 21.0 | 28.6 |
| Unknown | 4.6 | 5.6 | 5.9 | 5.5 | 5.2 | 5.5 | 5.9 |
| Marital status (%) | | | | | | | |
| Never married | 37.0 | 24.1 | 29.6 | 17.8 | 26.7 | 30.9 | 25.2 |
| Married | 38.0 | 47.5 | 44.9 | 54.3 | 43.4 | 40.6 | 46.1 |
| Marriage-like relationship | 10.5 | 8.6 | 5.1 | 5.7 | 12.3 | 12.2 | 9.2 |
| Separated, divorced, widowed | 2.9 | 5.6 | 5.4 | 7.1 | 4.6 | 4.3 | 5.3 |
| Unknown | 11.6 | 14.1 | 15.1 | 15.1 | 13.0 | 12.0 | 14.2 |
| Has dependent age 18 or younger (%) | 20.1 | 33.0 | 29.9 | 42.8 | 26.7 | 19.6 | 32.9 |
| Has one or more functional limitations (%) | 13.2 | 15.4 | 9.7 | 14.2 | 17.7 | 19.0 | 16.3 |
| Age at doctorate (median years) | 31.4 | 35.7 | 33.6 | 38.9 | 34.4 | 34.0 | 35.3 |
| Bachelor's in same field as doctorate (%) ^b | 61.5 | 46.5 | 40.9 | 25.6 | 71.6 | 69.0 | 39.2 |
| Master's earned (%) | 73.6 | 93.6 | 87.5 | 96.3 | 91.8 | 94.4 | 95.2 |
| Master's earned at same doctorate institution (%) | 44.8 | 34.4 | 26.0 | 32.4 | 41.8 | 36.0 | 31.2 |
| Time to doctorate (median years) | | | | | | | |
| Years since earning bachelor's degree | 8.6 | 12.3 | 10.8 | 15.5 | 11.3 | 11.3 | 11.6 |
| From graduate school start | 7.2 | 10.1 | 8.8 | 12.3 | 9.8 | 9.7 | 9.7 |
| From doctoral program start ^c | 5.7 | 5.9 | 5.0 | 5.6 | 6.8 | 6.8 | 5.7 |
| Received tuition remission (%) | 85.4 | 78.5 | 81.5 | 64.8 | 89.4 | 92.3 | 78.7 |
| Male doctorate recipients (number) | 30,522 | 4,842 | 781 | 1,154 | 1,709 | 363 | 835 |
| Citizenship status (%) | | | | | | | |
| U.S. citizen or permanent resident | 55.0 | 69.6 | 44.0 | 81.5 | 77.7 | 71.6 | 59.5 |
| Temporary visa holder | 40.5 | 24.6 | 50.6 | 13.5 | 16.3 | 22.6 | 33.3 |
| Unknown | 4.4 | 5.8 | 5.4 | 4.9 | 6.0 | 5.8 | 7.2 |
| Marital status (%) | | | | | | | |
| Never married | 40.1 | 23.9 | 29.6 | 16.4 | 24.5 | 33.9 | 23.4 |
| Married | 37.2 | 49.4 | 48.0 | 58.4 | 45.9 | 39.7 | 49.3 |
| Marriage-like relationship | 9.6 | 9.0 | 4.6 | 6.6 | 11.6 | 11.8 | 9.8 |
| Separated, divorced, widowed | 1.9 | 3.5 | 3.2 | 4.0 | 3.2 | 3.6 | 3.5 |
| Unknown | 11.3 | 14.3 | 14.6 | 14.6 | 14.7 | 11.0 | 14.0 |
| Has dependent age 18 or younger (%) | 19.8 | 35.2 | 32.6 | 45.9 | 32.6 | 20.1 | 35.2 |
| Has one or more functional limitations (%) | 11.6 | 14.3 | 9.3 | 14.6 | 15.3 | 15.7 | 15.8 |
| Age at doctorate (median years) | 31.2 | 35.6 | 33.9 | 38.8 | 34.9 | 34.0 | 35.9 |
| Bachelor's in same field as doctorate (%) ^b | 64.0 | 48.6 | 37.6 | 23.0 | 71.8 | 71.9 | 36.7 |
| Master's earned (%) | 71.8 | 92.8 | 88.6 | 96.3 | 91.1 | 94.3 | 94.9 |

Table 8-2**Non-science and engineering research doctorate recipients, statistical profile by sex and broad field of doctorate: 2022**

(Number, percent, and median years)

| Characteristic | All fields | Non-science and engineering | | | | | |
|--|------------|-----------------------------|----------|-----------|------------|----------------------------|-----------------------------------|
| | | Total | Business | Education | Humanities | Visual and performing arts | Other non-science and engineering |
| Master's earned at same doctorate institution (%) | 45.6 | 33.6 | 25.1 | 31.6 | 40.4 | 35.5 | 29.6 |
| Time to doctorate (median years) | | | | | | | |
| Years since earning bachelor's degree | 8.3 | 12.0 | 10.7 | 14.7 | 11.4 | 11.0 | 11.5 |
| From graduate school start | 7.0 | 9.8 | 8.8 | 11.8 | 9.8 | 9.1 | 9.5 |
| From doctoral program start ^c | 5.7 | 5.9 | 5.0 | 5.3 | 6.8 | 6.3 | 5.7 |
| Received tuition remission (%) | 86.6 | 79.7 | 81.5 | 64.7 | 86.8 | 91.8 | 78.4 |
| Female doctorate recipients (number) | 27,069 | 6,826 | 620 | 2,765 | 1,658 | 479 | 1,304 |
| Citizenship status (%) | | | | | | | |
| U.S. citizen or permanent resident | 68.4 | 75.2 | 49.5 | 81.9 | 78.6 | 74.9 | 69.2 |
| Temporary visa holder | 26.8 | 19.4 | 43.9 | 12.3 | 17.0 | 19.8 | 25.7 |
| Unknown | 4.8 | 5.3 | 6.6 | 5.8 | 4.3 | 5.2 | 5.1 |
| Marital status (%) | | | | | | | |
| Never married | 33.5 | 24.2 | 29.5 | 18.4 | 29.0 | 28.6 | 26.4 |
| Married | 38.8 | 46.2 | 41.0 | 52.6 | 40.8 | 41.3 | 44.0 |
| Marriage-like relationship | 11.6 | 8.4 | 5.6 | 5.4 | 12.9 | 12.5 | 8.8 |
| Separated, divorced, widowed | 4.1 | 7.2 | 8.1 | 8.4 | 6.1 | 4.8 | 6.4 |
| Unknown | 12.0 | 14.0 | 15.8 | 15.2 | 11.3 | 12.7 | 14.3 |
| Has dependent age 18 or younger (%) | 20.3 | 31.5 | 26.3 | 41.5 | 21.0 | 19.2 | 31.4 |
| Has one or more functional limitations (%) | 15.1 | 16.2 | 10.1 | 14.0 | 20.0 | 21.5 | 16.5 |
| Age at doctorate (median years) | 31.7 | 35.8 | 33.3 | 39.0 | 34.0 | 34.0 | 34.8 |
| Bachelor's in same field as doctorate (%) ^b | 58.7 | 45.0 | 45.1 | 26.7 | 71.4 | 66.7 | 40.9 |
| Master's earned (%) | 75.5 | 94.1 | 86.0 | 96.4 | 92.4 | 94.5 | 95.3 |
| Master's earned at same doctorate institution (%) | 44.0 | 35.0 | 27.3 | 32.7 | 43.2 | 36.4 | 32.2 |
| Time to doctorate (median years) | | | | | | | |
| Years since earning bachelor's degree | 9.0 | 12.8 | 10.8 | 15.9 | 11.0 | 11.6 | 11.6 |
| From graduate school start | 7.4 | 10.4 | 8.8 | 12.3 | 9.4 | 9.9 | 9.8 |
| From doctoral program start ^c | 5.8 | 5.9 | 5.0 | 5.6 | 6.8 | 6.8 | 5.6 |
| Received tuition remission (%) | 84.1 | 77.7 | 81.5 | 64.9 | 91.9 | 92.7 | 78.9 |

* = value between 0.00% and 0.05%.

^a Includes doctorate recipients who did not report sex.^b 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.^c Time to doctorate from doctoral program start is based on master's degree entry if the master's degree was at the same doctoral 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 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.