

TABLE 9-9

Mathematics and statistics research doctorate recipients, postgraduation plans by sex and major field of doctorate: 2023

(Number and percent)

| Characteristic | All mathematics and statistics fields | Applied mathematics | Mathematics | Statistics |
|--|---------------------------------------|---------------------|-------------|------------|
| Doctorate recipients reporting postgraduation status (number) | 1,881 | 469 | 782 | 630 |
| Definite postdoctoral training plans | 33.4 | 35.4 | 43.7 | 19.2 |
| Definite employment plans | 44.1 | 41.2 | 30.2 | 63.7 |
| Seeking employment or study | 20.4 | 20.5 | 23.9 | 16.0 |
| Other status ^a | 1.9 | 2.8 | 2.0 | 1.0 |
| Definite postdoctoral training plans (%) ^b | | | | |
| Postdoc fellowship or research associateship | 97.0 | 96.4 | 97.4 | 96.7 |
| Other training or unknown ^c | 3.0 | 3.6 | 2.6 | 3.3 |
| Definite employment plans (%) ^d | | | | |
| Academe | 29.4 | 22.3 | 51.3 | 20.0 |
| In tenure track faculty position (%) | 43.4 | 41.9 | 35.5 | 56.3 |
| Not in tenure track position (%) | 53.7 | 51.2 | 63.6 | 40.0 |
| Government | 5.2 | D | D | 4.2 |
| Industry or business ^e | 60.8 | 66.3 | 40.3 | 70.3 |
| Nonprofit organization | 2.4 | D | D | 3.2 |
| Other or unknown ^f | 2.2 | 2.6 | 1.7 | 2.2 |
| Primary activity ^g | | | | |
| Research and development | 51.4 | 51.6 | 35.4 | 60.5 |
| Teaching | D | 19.4 | D | D |
| Management or administration | D | 0.0 | D | D |
| Professional services and other | 23.4 | 29.0 | 14.6 | 25.9 |
| Secondary activity ^g | | | | |
| Research and development | 24.8 | 23.7 | 31.9 | 21.3 |
| Teaching | 3.6 | D | D | 4.4 |
| Management or administration | 5.0 | D | D | 5.4 |
| Professional services and other | 11.1 | 10.2 | 8.8 | 12.8 |
| No secondary activity | 55.5 | 59.1 | 51.3 | 56.2 |
| Activity unknown | 3.4 | 3.6 | 4.2 | 2.7 |
| Postgraduation location (%) ^h | | | | |
| United States ⁱ | 87.9 | 91.9 | 82.5 | 91.2 |
| Midwest | 14.7 | 12.3 | 17.8 | 12.8 |
| Northeast | 23.3 | 22.8 | 21.3 | 25.9 |
| South | 23.7 | 25.9 | 21.6 | 24.5 |
| West | 25.7 | 30.1 | 21.5 | 27.4 |
| Outside the United States | 12.0 | 8.1 | 17.5 | 8.6 |
| Location unknown | 0.1 | 0.0 | 0.0 | 0.2 |
| Postgraduation location in same state as doctorate institution (%) | 26.1 | 31.2 | 21.8 | 27.4 |
| Male doctorate recipients reporting postgraduation status (number) | 1,351 | 326 | 618 | 407 |
| Definite postdoctoral training plans | 35.4 | 34.4 | 45.0 | 21.6 |
| Definite employment plans | 40.9 | 42.0 | 27.2 | 60.7 |
| Seeking employment or study | 22.0 | 21.5 | 25.4 | 17.2 |
| Other status ^a | 1.6 | 1.8 | 2.3 | 0.5 |
| Definite postdoctoral training plans (%) ^b | | | | |
| Postdoc fellowship or research associateship | 96.4 | 94.6 | 97.1 | 96.6 |
| Other training or unknown ^c | 3.6 | 5.4 | 2.9 | 3.4 |
| Definite employment plans (%) ^d | | | | |

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(Number and percent)

| Characteristic | All mathematics and statistics fields | Applied mathematics | Mathematics | Statistics |
|--|---------------------------------------|---------------------|-------------|------------|
| Academe | 28.3 | 16.8 | D | D |
| In tenure track faculty position (%) | 39.7 | 30.4 | D | D |
| Not in tenure track position (%) | 58.3 | 69.6 | 63.9 | 44.0 |
| Government | 5.8 | D | D | 4.0 |
| Industry or business ^e | 61.4 | 71.5 | 40.5 | 70.0 |
| Nonprofit organization | 2.0 | D | D | D |
| Other or unknown ^f | 2.5 | 2.9 | 1.8 | 2.8 |
| Primary activity ^g | | | | |
| Research and development | 55.0 | 57.9 | 38.5 | 64.4 |
| Teaching | D | 14.3 | 47.8 | D |
| Management or administration | D | 0.0 | 0.0 | D |
| Professional services and other | 21.2 | 27.8 | 13.7 | 22.6 |
| Secondary activity ^g | | | | |
| Research and development | 22.7 | D | D | 18.4 |
| Teaching | 3.9 | D | 3.7 | D |
| Management or administration | 5.6 | 5.3 | D | D |
| Professional services and other | 12.0 | 10.5 | 9.3 | 14.6 |
| No secondary activity | 55.7 | 60.9 | 50.9 | 56.1 |
| Activity unknown | 3.4 | 2.9 | 4.2 | 3.2 |
| Postgraduation location (%) ^h | | | | |
| United States ⁱ | 86.4 | 91.2 | 80.0 | 91.3 |
| Midwest | 14.4 | 13.3 | 16.1 | 12.8 |
| Northeast | 22.6 | 20.5 | 22.9 | 23.9 |
| South | 22.6 | 24.9 | 19.5 | 25.1 |
| West | 26.1 | 31.7 | 21.1 | 28.7 |
| Outside the United States | 13.5 | 8.8 | 20.0 | 8.4 |
| Location unknown | 0.1 | 0.0 | 0.0 | 0.3 |
| Postgraduation location in same state as doctorate institution (%) | 25.8 | 32.5 | 20.2 | 28.4 |
| Female doctorate recipients reporting postgraduation status (number) | 529 | 143 | 163 | 223 |
| Definite postdoctoral training plans | 28.4 | 37.8 | 38.7 | 14.8 |
| Definite employment plans | 52.6 | 39.2 | 41.7 | 69.1 |
| Seeking employment or study | 16.4 | 18.2 | 18.4 | 13.9 |
| Other status ^a | 2.5 | 4.9 | 1.2 | 1.8 |
| Definite postdoctoral training plans (%) ^b | | | | |
| Postdoc fellowship or research associateship | 98.7 | D | 98.4 | 97.0 |
| Other training or unknown ^c | 1.3 | D | 1.6 | 3.0 |
| Definite employment plans (%) ^d | | | | |
| Academe | 31.7 | 35.7 | D | D |
| In tenure track faculty position (%) | 50.0 | 55.0 | D | D |
| Not in tenure track position (%) | 45.5 | 30.0 | 63.2 | 33.3 |
| Government | 4.0 | D | D | 4.5 |
| Industry or business ^e | 59.7 | 53.6 | 39.7 | 70.8 |
| Nonprofit organization | 3.2 | D | 0.0 | D |
| Other or unknown ^f | 1.4 | 1.8 | 1.5 | 1.3 |
| Primary activity ^g | | | | |
| Research and development | 44.2 | 35.8 | 27.7 | 54.3 |
| Teaching | D | 32.1 | D | 14.6 |

TABLE 9-9

Mathematics and statistics research doctorate recipients, postgraduation plans by sex and major field of doctorate: 2023

(Number and percent)

| Characteristic | All mathematics and statistics fields | Applied mathematics | Mathematics | Statistics |
|--|---------------------------------------|---------------------|-------------|------------|
| Management or administration | D | 0.0 | D | 0.0 |
| Professional services and other | 27.9 | 32.1 | 16.9 | 31.1 |
| Secondary activity ^g | | | | |
| Research and development | 29.0 | D | D | 25.8 |
| Teaching | 3.0 | D | D | D |
| Management or administration | 3.7 | D | D | D |
| Professional services and other | 9.3 | 9.4 | 7.7 | 9.9 |
| No secondary activity | 55.0 | 54.7 | 52.3 | 56.3 |
| Activity unknown | 3.2 | 5.4 | 4.4 | 1.9 |
| Postgraduation location (%) ^h | | | | |
| United States ⁱ | 91.8 | 93.6 | 91.6 | 90.9 |
| Midwest | 15.4 | 10.0 | 23.7 | 12.8 |
| Northeast | 25.0 | 28.2 | 16.0 | 29.4 |
| South | 26.4 | 28.2 | 29.0 | 23.5 |
| West | 24.8 | 26.4 | 22.9 | 25.1 |
| Outside the United States | 8.2 | 6.4 | 8.4 | 9.1 |
| Location unknown | 0.0 | 0.0 | 0.0 | 0.0 |
| Postgraduation location in same state as doctorate institution (%) | 26.9 | 28.2 | 27.5 | 25.7 |

D = suppressed to avoid disclosure of confidential information.

^a Other status includes doctorate recipients reporting: no plans to work or study, some other type of postgraduation plans, or definite plans for other full-time degree program.^b Definite postdoctoral training plans excludes doctorate recipients reporting plans for other full-time degree program. Percentages are based on the number of doctorate recipients reporting definite postdoctoral plans for study.^c Other training includes doctorate recipients who reported definite postdoctoral plans for traineeship, internship or clinical residency, or other study.^d Percentages are based on the number of doctorate recipients reporting definite postgraduation plans for employment.^e Industry or business includes doctorate recipients reporting self-employment.^f Other is mainly composed of elementary and secondary schools.^g Percentages are based on the number of doctorate recipients reporting definite postgraduation plans for employment and primary or secondary work activity.^h Percentages are based on the number of doctorate recipients reporting definite postgraduation plans and type of plans.ⁱ United States includes doctorate recipients with an unknown U.S. region of employment after doctorate; thus, the percentages by regions will not sum to the value for United States. See the "Technical Notes" for states or territories included in regions.**Note(s):**

A definite postgraduation commitment includes accepting new employment or a postdoctoral study (postdoc) position or returning to predoctoral employment, while postgraduation employment includes accepting new employment or returning to predoctoral employment that is not a postdoctoral study (postdoc) position. 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 about the 2021 taxonomy change, see the "Technical Notes."

Source(s):

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