

**Table 9-5****Computer and information sciences research doctorate recipients, postgraduation plans by sex and major field of doctorate: 2022**

(Number and percent)

Characteristic	All computer and information sciences fields	Computer science	Computer and information sciences, other
Doctorate recipients reporting postgraduation status (number)	1,977	1,370	607
Definite postdoctoral training plans	16.4	16.6	15.8
Definite employment plans	62.7	62.3	63.8
Seeking employment or study	18.6	19.0	17.6
Other status <sup>a</sup>	2.3	2.0	2.8
Definite postdoctoral training plans (%) <sup>b</sup>			
Postdoc fellowship or research associateship	98.1	97.8	99.0
Other training or unknown <sup>c</sup>	1.9	2.2	1.0
Definite employment plans (%) <sup>d</sup>			
Academe	20.9	19.5	24.0
In tenure track faculty position (%)	64.1	63.3	65.6
Not in tenure track position (%)	33.2	33.7	32.3
Government	3.5	3.2	4.1
Industry or business <sup>e</sup>	71.0	74.1	64.3
Nonprofit organization	2.6	2.1	3.6
Other or unknown <sup>f</sup>	2.0	1.2	3.9
Primary activity <sup>g</sup>			
Research and development	70.9	73.1	66.1
Teaching	11.7	11.1	13.2
Management or administration	2.0	0.8	4.6
Professional services and other	15.3	15.0	16.1
Secondary activity <sup>g</sup>			
Research and development	18.8	18.1	20.4
Teaching	10.2	8.8	13.2
Management or administration	7.0	6.8	7.5
Professional services and other	16.1	16.8	14.5
No secondary activity	48.0	49.6	44.4
Activity unknown	3.1	2.8	3.9
Postgraduation location (%) <sup>h</sup>			
United States <sup>i</sup>	91.2	91.7	90.1
Midwest	9.1	7.9	11.8
Northeast	19.9	21.2	17.0
South	17.6	15.6	21.9
West	44.1	46.3	38.9
Outside the United States	8.7	8.3	9.5
Location unknown	0.1	0.0	0.4
Postgraduation location in same state as doctorate institution (%)	31.6	31.1	32.9
Male doctorate recipients reporting postgraduation status (number)	1,503	1,057	446
Definite postdoctoral training plans	16.0	16.7	14.3
Definite employment plans	63.8	63.0	65.7
Seeking employment or study	18.1	18.4	17.5
Other status <sup>a</sup>	2.1	2.0	2.5
Definite postdoctoral training plans (%) <sup>b</sup>			
Postdoc fellowship or research associateship	97.5	97.2	98.4
Other training or unknown <sup>c</sup>	2.5	2.8	1.6
Definite employment plans (%) <sup>d</sup>			

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(Number and percent)

Characteristic	All computer and information sciences fields	Computer science	Computer and information sciences, other
Academe	18.1	16.5	21.8
In tenure track faculty position (%)	64.9	63.6	67.2
Not in tenure track position (%)	33.3	34.5	31.3
Government	3.2	D	D
Industry or business <sup>e</sup>	75.0	78.1	67.9
Nonprofit organization	2.3	D	D
Other or unknown <sup>f</sup>	1.4	0.8	2.7
Primary activity <sup>g</sup>			
Research and development	73.1	75.4	68.0
Teaching	9.7	8.9	11.4
Management or administration	1.8	1.1	3.6
Professional services and other	15.4	14.6	17.1
Secondary activity <sup>g</sup>			
Research and development	17.0	15.4	20.6
Teaching	9.2	8.2	11.7
Management or administration	7.7	7.8	7.5
Professional services and other	15.9	16.8	13.9
No secondary activity	50.2	51.8	46.3
Activity unknown	2.9	2.4	4.1
Postgraduation location (%) <sup>h</sup>			
United States <sup>i</sup>	91.4	92.3	89.4
Midwest	8.8	7.5	11.8
Northeast	19.6	20.8	16.8
South	17.7	15.8	22.1
West	45.0	47.7	38.4
Outside the United States	8.4	7.7	10.1
Location unknown	0.2	0.0	0.6
Postgraduation location in same state as doctorate institution (%)	31.9	30.6	34.7
Female doctorate recipients reporting postgraduation status (number)	474	313	161
Definite postdoctoral training plans	17.7	16.6	19.9
Definite employment plans	59.3	59.7	58.4
Seeking employment or study	20.0	21.1	18.0
Other status <sup>a</sup>	2.7	2.2	3.7
Definite postdoctoral training plans (%) <sup>b</sup>			
Postdoc fellowship or research associateship	100.0	100.0	100.0
Other training or unknown <sup>c</sup>	0.0	0.0	0.0
Definite employment plans (%) <sup>d</sup>			
Academe	30.2	29.9	30.9
In tenure track faculty position (%)	62.4	62.5	62.1
Not in tenure track position (%)	32.9	32.1	34.5
Government	4.3	D	D
Industry or business <sup>e</sup>	57.7	59.9	53.2
Nonprofit organization	3.6	D	D
Other or unknown <sup>f</sup>	4.3	2.7	7.4
Primary activity <sup>g</sup>			
Research and development	63.3	64.8	60.4
Teaching	18.9	19.0	18.7

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(Number and percent)

Characteristic	All computer and information sciences fields	Computer science	Computer and information sciences, other
Management or administration	2.6	0.0	7.7
Professional services and other	15.2	16.2	13.2
Secondary activity <sup>g</sup>			
Research and development	25.2	27.9	19.8
Teaching	13.3	11.2	17.6
Management or administration	4.4	2.8	7.7
Professional services and other	16.7	16.8	16.5
No secondary activity	40.4	41.3	38.5
Activity unknown	3.9	4.3	3.2
Postgraduation location (%) <sup>h</sup>			
United States <sup>i</sup>	90.4	89.5	92.1
Midwest	10.1	9.2	11.9
Northeast	20.8	22.6	17.5
South	17.3	15.1	21.4
West	41.1	41.4	40.5
Outside the United States	9.6	10.5	7.9
Location unknown	0.0	0.0	0.0
Postgraduation location in same state as doctorate institution (%)	31.0	32.6	27.8

D = suppressed to avoid disclosure of confidential information.

<sup>a</sup> 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.

<sup>b</sup> Excludes doctorate recipients reporting plans for other full-time degree program. Percentages based on number of doctorate recipients reporting definite postdoctoral plans for study.

<sup>c</sup> Other includes doctorate recipients who reported definite postdoctoral plans for traineeship, internship or clinical residency, or other study.

<sup>d</sup> Percentages based on number of doctorate recipients reporting definite postgraduation plans for employment.

<sup>e</sup> Includes doctorate recipients reporting self-employment.

<sup>f</sup> Other is mainly composed of elementary and secondary schools.

<sup>g</sup> Percentages based on number of doctorate recipients reporting definite postgraduation plans for employment and primary or secondary work activity.

<sup>h</sup> Percentages based on number of doctorate recipients reporting definite postgraduation plans and type of plans.

<sup>i</sup> 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, 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.