

TABLE 9-5

**Computer and information sciences research doctorate recipients, postgraduation plans by sex and major field of doctorate: 2023**

(Number and percent)

Characteristic	All computer and information sciences fields	Computer science	Computer and information sciences, other
Doctorate recipients reporting postgraduation status (number)	2,037	1,436	601
Definite postdoctoral training plans	16.0	16.2	15.6
Definite employment plans	62.0	62.3	61.2
Seeking employment or study	20.2	19.9	21.0
Other status <sup>a</sup>	1.8	1.6	2.2
Definite postdoctoral training plans (%) <sup>b</sup>			
Postdoc fellowship or research associateship	95.4	95.7	94.7
Other training or unknown <sup>c</sup>	4.6	4.3	5.3
Definite employment plans (%) <sup>d</sup>			
Academe	22.3	19.8	28.5
In tenure track faculty position (%)	62.1	58.2	68.6
Not in tenure track position (%)	35.1	39.0	28.6
Government	2.9	1.8	5.4
Industry or business <sup>e</sup>	69.5	74.1	58.4
Nonprofit organization	3.3	3.0	4.1
Other or unknown <sup>f</sup>	2.0	1.3	3.5
Primary activity <sup>g</sup>			
Research and development	73.3	74.7	69.7
Teaching	12.4	12.0	13.5
Management or administration	1.1	0.6	2.3
Professional services and other	13.2	12.8	14.4
Secondary activity <sup>g</sup>			
Research and development	16.4	15.7	17.9
Teaching	6.8	5.2	11.0
Management or administration	7.5	7.0	8.6
Professional services and other	12.1	12.6	10.7
No secondary activity	57.3	59.4	51.9
Activity unknown	3.6	2.8	5.7
Postgraduation location (%) <sup>h</sup>			
United States <sup>i</sup>	91.2	91.2	91.1
Midwest	9.0	8.3	10.8
Northeast	20.9	21.9	18.4
South	20.4	18.5	25.1
West	40.3	42.3	35.3
Outside the United States	8.6	8.7	8.2
Location unknown	0.3	0.1	0.6
Postgraduation location in same state as doctorate institution (%)	32.2	32.2	32.3
Male doctorate recipients reporting postgraduation status (number)	1,537	1,113	424
Definite postdoctoral training plans	15.6	15.5	15.8
Definite employment plans	63.4	64.0	61.8
Seeking employment or study	19.3	19.0	20.0
Other status <sup>a</sup>	1.8	1.5	2.4
Definite postdoctoral training plans (%) <sup>b</sup>			
Postdoc fellowship or research associateship	94.6	94.8	94.0
Other training or unknown <sup>c</sup>	5.4	5.2	6.0
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	20.2	18.3	25.6
In tenure track faculty position (%)	61.9	57.7	70.1
Not in tenure track position (%)	35.5	39.2	28.4
Government	2.7	D	D
Industry or business <sup>e</sup>	72.3	75.8	62.6
Nonprofit organization	3.0	D	D
Other or unknown <sup>f</sup>	1.8	1.4	3.1
Primary activity <sup>g</sup>			
Research and development	74.7	76.0	70.9
Teaching	10.9	10.9	10.8
Management or administration	1.4	0.7	3.2
Professional services and other	13.1	12.4	15.1
Secondary activity <sup>g</sup>			
Research and development	15.3	15.1	15.9
Teaching	6.3	4.9	10.0
Management or administration	7.8	7.0	10.0
Professional services and other	12.2	13.1	10.0
No secondary activity	58.4	59.9	54.2
Activity unknown	3.6	3.4	4.2
Postgraduation location (%) <sup>h</sup>			
United States <sup>i</sup>	91.4	91.4	91.2
Midwest	8.8	8.5	9.7
Northeast	20.4	21.7	17.0
South	20.3	18.4	25.5
West	41.4	42.6	38.0
Outside the United States	8.4	8.5	8.2
Location unknown	0.2	0.1	0.6
Postgraduation location in same state as doctorate institution (%)	32.4	32.4	32.2
Female doctorate recipients reporting postgraduation status (number)	500	323	177
Definite postdoctoral training plans	17.2	18.3	15.3
Definite employment plans	57.8	56.7	59.9
Seeking employment or study	23.2	23.2	23.2
Other status <sup>a</sup>	1.8	1.9	1.7
Definite postdoctoral training plans (%) <sup>b</sup>			
Postdoc fellowship or research associateship	97.7	98.3	96.3
Other training or unknown <sup>c</sup>	2.3	1.7	3.7
Definite employment plans (%) <sup>d</sup>			
Academe	29.4	25.7	35.8
In tenure track faculty position (%)	62.4	59.6	65.8
Not in tenure track position (%)	34.1	38.3	28.9
Government	3.5	D	D
Industry or business <sup>e</sup>	60.2	67.2	48.1
Nonprofit organization	4.5	D	D
Other or unknown <sup>f</sup>	2.4	1.1	4.7
Primary activity <sup>g</sup>			
Research and development	68.7	69.8	66.7
Teaching	17.6	15.9	20.8

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**Computer and information sciences research doctorate recipients, postgraduation plans by sex and major field of doctorate: 2023**

(Number and percent)

Characteristic	All computer and information sciences fields	Computer science	Computer and information sciences, other
Management or administration	0.0	0.0	0.0
Professional services and other	13.7	14.3	12.5
Secondary activity <sup>g</sup>			
Research and development	19.8	18.1	22.9
Teaching	8.6	6.0	13.5
Management or administration	6.5	7.1	5.2
Professional services and other	11.5	11.0	12.5
No secondary activity	53.6	57.7	45.8
Activity unknown	3.8	0.5	9.4
Postgraduation location (%) <sup>h</sup>			
United States <sup>i</sup>	90.7	90.5	91.0
Midwest	9.6	7.4	13.5
Northeast	22.4	22.7	21.8
South	20.5	18.6	24.1
West	36.8	41.3	28.6
Outside the United States	9.1	9.5	8.3
Location unknown	0.3	0.0	0.8
Postgraduation location in same state as doctorate institution (%)	31.7	31.4	32.3

D = suppressed to avoid disclosure of confidential information.

<sup>a</sup> 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.

<sup>b</sup> 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.

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

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

<sup>e</sup> Industry or business includes doctorate recipients reporting self-employment.

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

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

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

<sup>i</sup> 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.