

TABLE 61

Statistical profile of postgraduation plans of doctorate recipients in mathematics and computer sciences fields, by sex and field of study: 2017

(Number and percent)

Characteristic	All mathematics and computer sciences fields	Computer and information sciences	Mathematics and statistics
All doctorate recipients (number) ^a	3,843	1,987	1,856
Postgraduation status (number) ^b			
Definite postgraduation study	773	265	508
Definite employment	1,715	1,056	659
Seeking employment or study	865	407	458
Other ^c	91	54	37
Definite postgraduation study (%) ^d			
Postdoc fellowship or research associateship	96.0	93.2	97.4
Other or unknown ^e	4.0	6.8	2.6
Definite employment (%) ^f			
Academe	33.3	28.4	41.1
Government	4.3	4.4	4.2
Industry or business ^g	58.1	63.4	49.6
Nonprofit organization	3.1	3.4	2.6
Other or unknown ^h	1.2	0.5	2.4
Primary activity ⁱ			
R&D	62.0	70.7	48.2
Teaching	24.3	17.8	34.9
Management or administration	2.3	2.8	1.6
Professional services	6.1	3.4	10.5
Other	5.2	5.4	4.9
Secondary activity ^j			
R&D	23.6	18.2	32.0
Teaching	8.9	10.5	6.4
Management or administration	6.5	6.8	6.0
Professional services	3.6	2.4	5.5
Other	2.1	2.5	1.4
No secondary activity	55.4	59.7	48.7
Activity unknown	3.7	4.0	3.3
Postgraduation location (%) ^k			
United States ^l	89.0	91.0	86.7
New England	8.1	6.8	9.6
Middle Atlantic	14.1	12.3	16.1
East North Central	9.2	7.3	11.4
West North Central	3.4	3.1	3.7
South Atlantic	12.5	11.0	14.2
East South Central	2.5	2.5	2.5
West South Central	5.8	4.9	6.9
Mountain	4.3	3.4	5.3
Pacific and insular	28.5	38.9	16.7
Not in United States	11.0	8.9	13.3
Location unknown	*	0.1	0.0
Male doctorate recipients (number)	2,866	1,540	1,326
Postgraduation status (number) ^b			
Definite postgraduation study	602	205	397
Definite employment	1,318	862	456
Seeking employment or study	643	309	334
Other ^c	61	37	24

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Definite postgraduation study (%) ^d			
Postdoc fellowship or research associateship	96.5	93.7	98.0
Other or unknown ^e	3.5	6.3	2.0
Definite employment (%) ^f			
Academe	30.0	25.5	38.4
Government	4.1	3.8	4.6
Industry or business ^g	62.1	66.9	52.9
Nonprofit organization	3.0	3.4	2.2
Other or unknown ^h	0.9	0.3	2.0
Primary activity ⁱ			
R&D	64.7	73.5	48.1
Teaching	23.1	16.4	35.6
Management or administration	2.1	2.5	1.1
Professional services	5.8	3.3	10.4
Other	4.4	4.2	4.8
Secondary activity ^j			
R&D	22.1	16.6	32.4
Teaching	7.6	9.1	5.0
Management or administration	6.5	6.9	5.9
Professional services	3.1	2.1	5.0
Other	2.1	2.5	1.4
No secondary activity	58.5	62.9	50.3
Activity unknown	3.8	4.1	3.3
Postgraduation location (%) ^k			
United States ^l	89.1	91.0	86.6
New England	7.7	6.8	8.7
Middle Atlantic	14.5	12.2	17.4
East North Central	9.3	7.1	12.0
West North Central	3.5	3.0	4.2
South Atlantic	11.8	10.5	13.4
East South Central	2.3	2.6	2.0
West South Central	5.0	4.5	5.6
Mountain	4.4	3.2	5.9
Pacific and insular	30.1	40.4	17.2
Not in United States	10.9	8.9	13.4
Location unknown	0.1	0.1	0.0
Female doctorate recipients (number)	976	447	529
Postgraduation status (number) ^b			
Definite postgraduation study	171	60	111
Definite employment	397	194	203
Seeking employment or study	222	98	124
Other ^c	30	17	13
Definite postgraduation study (%) ^d			
Postdoc fellowship or research associateship	94.2	91.7	95.5
Other or unknown ^e	5.8	8.3	4.5
Definite employment (%) ^f			
Academe	44.3	41.2	47.3

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(Number and percent)

Characteristic	All mathematics and computer sciences fields	Computer and information sciences	Mathematics and statistics
Government	5.0	6.7	3.4
Industry or business ^g	44.8	47.4	42.4
Nonprofit organization	3.5	3.6	3.4
Other or unknown ^h	2.3	1.0	3.4
Primary activity ⁱ			
R&D	53.3	58.3	48.5
Teaching	28.5	23.5	33.2
Management or administration	3.1	3.7	2.6
Professional services	7.3	3.7	10.7
Other	7.8	10.7	5.1
Secondary activity ^j			
R&D	28.5	25.7	31.1
Teaching	13.1	16.6	9.7
Management or administration	6.3	6.4	6.1
Professional services	5.2	3.7	6.6
Other	1.8	2.1	1.5
No secondary activity	45.2	45.5	44.9
Activity unknown	3.5	3.6	3.4
Postgraduation location (%) ^k			
United States ^l	88.7	90.9	86.9
New England	9.7	6.7	12.1
Middle Atlantic	12.9	13.0	12.7
East North Central	9.2	8.3	9.9
West North Central	2.8	3.5	2.2
South Atlantic	15.0	13.0	16.6
East South Central	3.0	2.0	3.8
West South Central	8.6	6.7	10.2
Mountain	4.0	4.3	3.8
Pacific and insular	23.1	32.7	15.3
Not in United States	11.3	9.1	13.1
Location unknown	0.0	0.0	0.0

* = value < 0.05%.

^a Includes respondents who did not report sex.

^b Includes only respondents who reported postgraduation status.

^c Includes respondents who indicated that they did not plan to work or study, respondents who indicated some other type of postgraduation plans, and respondents who indicated definite plans for other full-time degree program.

^d Excludes respondents who indicated plans for other full-time degree program. Percentages based on the number of doctorate recipients reporting definite postgraduation plans for study.

^e "Other" includes respondents who indicated definite postgraduation study plans for traineeship, internship or clinical residency, or other study.

^f Percentages based on number of doctorate recipients reporting definite postgraduation plans for employment.

^g Includes doctorate recipients who indicated self-employment.

^h "Other" is mainly composed of elementary and secondary schools.

ⁱ Percentages based on number of doctorate recipients reporting definite postgraduation plans for employment and primary work activity.

^j Percentages based on number of doctorate recipients reporting definite postgraduation plans for employment and secondary work activity.

^k Percentages based on number of doctorate recipients reporting definite postgraduation plans and type of plans.

^l Includes cases with an unknown U.S region of employment after doctorate; see technical notes for states or territories included in regions.

Note(s)

Due to rounding, percentages may not sum to 100. See table A-6 in the technical notes for a listing of major fields and their constituent subfields.

Source(s)

National Science Foundation, National Center for Science and Engineering Statistics, Survey of Earned Doctorates, 2017.