



TABLE 4-1

**Scholarly activity of early career doctorates, by position type, employment setting, and doctoral degree characteristics: 2017**

(Percent)

Selected characteristic	Number of early career doctorates	Wrote technical reports or working papers	Attended professional conferences	Served as a reviewer for conference, journal or organization	Supervised graduate students, postdoctoral scholars, or staff	Taught courses	Provided clinical or professional services	Developed marketable products	Worked with researchers outside home department or lab	Served as principal or coinvestigator on funded grants	Prepared proposals as principal or co-investigator	Prepared proposals in role other than principal or co-investigator
U.S. degree	161,800	67.4	91.0	76.9	70.9	81.4	26.4	11.0	71.4	42.9	56.2	30.7
Non-U.S. degree	24,900	84.4	90.4	78.3	75.6	44.8	13.8	9.6	78.5	36.6	50.8	38.1
Field of doctoral degree												
Science and engineering	112,600	77.3	91.1	80.3	73.6	66.9	17.5	9.9	79.5	45.1	60.8	37.3
Biological, agricultural, and environmental life sciences	28,900	74.8	89.2	76.4	78.4	54.3	14.8	7.2	83.0	42.3	59.9	43.4
Agricultural and environmental life sciences	3,900	83.2	91.2	85.4	80.3	71.8	21.7	12.1	86.5	54.9	69.5	48.9
Biological and biomedical sciences	24,900	73.5	88.9	75.0	78.1	51.6	13.7	6.5	82.5	40.3	58.4	42.5
Engineering	17,200	92.3	91.6	87.7	79.5	62.7	20.7	17.9	85.6	53.0	64.6	44.1
Mathematics and computer sciences	12,100	81.6	94.5	84.3	67.3	81.6	20.9	10.3	78.8	47.7	63.9	34.1
Computer and information sciences	5,900	85.6	93.3	90.6	77.4	76.0	23.3	19.1	84.9	53.2	66.3	41.0
Mathematics and statistics	6,200	77.8	95.6	78.4	57.8	86.9	18.6	2.1	73.0	42.6	61.7	27.6
Multidisciplinary fields and science and engineering related fields	2,600	65.9	96.4	79.6	75.9	74.6	26.5	10.2	77.8	51.6	66.4	45.1
Physical sciences, geosciences, atmospheric sciences, and ocean sciences	20,600	81.7	88.6	73.6	73.2	48.2	9.5	9.7	80.6	39.8	54.2	38.4
Psychology and social sciences	31,200	67.7	92.4	82.8	68.3	86.9	21.3	7.8	72.6	45.3	62.1	27.9
Psychology	8,700	57.9	89.9	77.9	74.5	76.7	26.4	9.2	75.5	42.2	60.9	33.0
Social sciences	22,400	71.5	93.4	84.7	65.9	90.9	19.4	7.3	71.5	46.6	62.6	25.9

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Health	13,400	63.8	90.7	73.4	75.9	86.2	58.5	10.3	66.7	49.5	55.6	32.4
Non-science and engineering	60,700	56.9	90.5	72.0	66.9	92.3	30.7	12.7	60.3	34.8	45.5	21.1
Education	21,100	57.4	85.6	62.7	75.5	87.7	42.0	18.2	52.9	37.3	41.9	25.1
Humanities	15,700	41.4	91.9	70.2	57.0	93.6	15.9	7.8	53.3	25.3	44.6	18.9
Other non-science and engineering	23,900	66.7	93.9	81.4	65.7	95.6	30.6	11.1	71.4	39.0	49.3	19.1
Position tenure												
1 year or less	25,700	58.0	79.4	60.3	55.0	79.9	22.7	7.2	59.1	26.7	42.3	19.6
More than 1 year but less than 5 years	108,600	72.9	91.2	77.9	72.6	69.2	22.1	10.6	74.3	39.9	54.5	33.4
5 years or more	52,400	68.7	95.9	83.7	77.6	90.2	31.1	13.0	74.8	54.0	63.8	34.1

FFRDC = federally funded research and development center.

<sup>a</sup> Other faculty, no rank or tenure, positions includes all other faculty positions such as instructors, lecturers, and adjuncts. Postdoctoral scholar positions are temporary positions in academe, industry, government, or a nonprofit organization primarily for gaining additional education and training in research. Other positions are diverse but are typically university administrators and staff.

<sup>b</sup> Academic institutions include U.S. academic institutions in the Survey of Graduate Students and Postdoctorates in Science and Engineering that grant master's and doctorate degrees in science, engineering, and health-related fields.

<sup>c</sup> Includes medical and related degrees, such as Medical Doctors (MD), Doctor of Pharmacy (PharmD), and other professional degrees such as Doctor of Education (EdD).

**Note(s):**

Counts are rounded to the nearest 100. Percentages are calculated from unrounded counts and rounded to the nearest 10th of a percent.

**Source(s):**

National Center for Science and Engineering Statistics, Early Career Doctorates Survey, 2017.