

TABLE 7-7

**Early career doctorates who indicate that various critical competencies were very or extremely important to their sampled position, by position type, employment setting, and position characteristics: 2017**

(Percent)

Selected characteristic	Appropriately apply research methodologies	Develop new ideas, processes, or products	Critically analyze and evaluate findings and results	Demonstrate theoretical and practical understanding of your subject area	Work constructively with colleagues	Manage and influence others	Communicate ideas clearly and persuasively in writing	Communicate ideas clearly and persuasively orally	Effectively plan, manage, and deliver projects on time
Number of early career doctorates for whom the item was applicable (denominator)	173,800	179,400	181,400	184,300	182,900	180,300	185,200	185,500	179,800
Percentage of early career doctorates	69.3	70.6	77.1	81.5	66.2	59.9	80.6	80.1	69.5
Position type <sup>a</sup>									
Faculty	65.0	66.3	72.8	82.9	62.6	58.5	80.9	82.6	67.1
Tenured faculty	63.9	63.1	71.9	82.4	59.8	54.3	82.3	81.9	64.7
Tenure-track faculty	71.3	70.8	77.1	83.7	62.3	58.8	84.0	81.9	68.9
Non-tenure track faculty with rank	58.4	69.4	73.7	83.5	76.3	70.7	79.0	83.9	69.8
Other faculty, no rank or tenure	52.8	57.2	62.9	81.3	59.5	56.0	73.5	84.2	63.8
Postdoctoral scholar	85.4	82.7	88.9	80.5	67.8	56.6	80.9	71.5	69.6
Research scientist or nonfaculty researcher	83.0	83.1	89.4	79.4	78.3	62.4	80.0	74.7	77.8
Other positions	49.2	66.4	73.8	72.0	83.6	79.8	77.9	85.4	83.9
Employment setting									
Academic institution <sup>b</sup>	68.6	70.0	76.5	81.3	65.4	59.9	80.6	80.2	69.4
Very high research activity university	76.4	78.6	83.7	81.8	65.8	60.7	82.3	78.1	71.6
High research activity university	67.9	67.0	75.8	83.6	64.0	59.0	81.7	81.1	67.9
Other college or university	58.9	60.4	67.9	79.8	65.5	59.1	78.0	82.4	67.2
FFRDC	84.1	85.7	90.3	84.4	82.7	61.7	81.9	78.4	72.4
Position tenure									
1 year or less	68.0	69.8	76.2	83.2	65.1	60.5	79.0	82.6	71.2

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More than 1 year but less than 5 years	72.4	73.1	78.8	81.1	66.7	59.1	80.3	78.1	69.3
5 years or more	63.4	66.0	74.0	81.3	65.4	61.4	82.1	83.2	69.2
First-position status									
First position held after doctoral award	69.2	69.8	76.9	80.1	65.4	57.7	80.4	79.7	69.1
Not the first position	69.3	71.4	77.3	82.7	66.8	62.0	80.8	80.6	69.9
Position related to doctoral degree									
Closely	70.6	71.7	78.1	83.8	65.7	60.2	82.6	81.2	70.0
Somewhat	64.8	67.1	73.8	73.7	67.4	58.8	73.2	75.7	66.5
Not at all	54.3	62.2	67.4	62.1	70.7	61.9	73.9	80.4	80.8
Hours worked per week									
Less than 35 hours	57.7	62.0	67.3	82.4	59.7	59.9	74.1	80.0	67.1
35–44 hours	68.2	68.9	75.6	79.1	68.6	59.1	79.1	78.5	69.4
45–54 hours	69.4	71.0	78.3	82.1	66.8	60.1	82.4	80.6	68.9
55 hours or more	73.8	75.0	80.5	83.2	64.2	60.8	82.4	81.7	71.0

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.

**Note(s):**

Counts are rounded to the nearest 100. Percentages are calculated from unrounded counts and rounded to the nearest 10th of a percent. "Not used in this position" responses are excluded from the denominator for each column variable.

**Source(s):**

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