

Appendix table 5-18

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S&E doctorate holders employed in academia, by type of position, Carnegie institution type, and administrative control of institution: 1975–2001

(Thousands)

Institution control, institution type, and position	1975	1977	1979	1981	1983	1985	1987	1989	1991	1993	1995	1997	1999	2001
All U&C														
All academic institutions														
All positions.....	134.1	145.4	155.3	167.1	176.1	190.2	195.9	206.6	210.6	213.8	217.5	232.5	240.2	245.5
Full-time senior faculty.....	84.3	90.7	97.2	107.3	115.6	119.7	127.3	131.0	133.0	128.6	127.3	131.9	136.7	136.9
Full-time junior faculty	32.1	34.9	34.0	34.6	32.8	37.2	37.2	38.7	40.1	43.8	44.0	46.4	47.4	50.5
Full-time nonfaculty	8.3	8.8	11.4	12.6	13.4	18.1	16.4	19.2	20.2	22.2	23.9	26.4	29.3	31.7
Postdocs	6.2	7.6	8.1	8.5	8.3	8.7	9.3	11.5	9.9	13.3	16.8	18.9	18.5	17.5
Part-time positions.....	3.2	3.4	4.5	4.0	6.0	6.5	5.7	6.2	7.4	5.9	5.5	8.9	8.2	9.0
Research universities														
All positions	73.4	78.2	83.5	91.0	89.9	102.8	106.9	112.5	111.6	113.0	112.8	113.6	117.2	119.6
Full-time senior faculty	45.6	48.0	50.0	55.6	56.2	61.0	65.0	66.4	65.6	62.6	61.1	61.5	64.2	63.1
Full-time junior faculty	15.9	16.7	17.1	18.1	16.0	19.7	19.3	20.2	20.2	21.8	20.5	20.0	20.0	21.7
Full-time nonfaculty	5.1	5.6	7.5	8.1	8.1	11.7	11.5	13.2	13.9	14.6	15.7	15.1	16.4	18.3
Postdocs	5.3	6.5	6.8	7.0	6.7	7.4	8.1	9.7	8.3	11.3	13.6	13.9	14.1	13.8
Part-time positions.....	1.5	1.5	2.1	2.1	2.9	3.1	3.0	3.0	3.6	2.7	1.8	3.1	2.6	2.8
Doctorate-granting institutions														
All positions	15.9	17.2	17.2	18.8	19.5	21.2	22.2	23.5	24.9	24.2	25.0	25.8	26.3	26.3
Full-time senior faculty	10.9	11.6	11.6	13.4	14.5	15.0	16.4	16.4	17.0	16.2	16.0	16.9	17.4	17.4
Full-time junior faculty	3.8	4.4	4.2	3.9	3.5	3.6	3.9	4.4	5.1	5.4	5.6	5.1	5.4	5.5
Full-time nonfaculty	0.6	0.5	0.8	0.8	0.7	1.6	1.1	1.3	1.7	1.7	1.9	1.9	2.0	1.9
Postdocs	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.5	0.3	0.5	0.8	0.9	0.8	0.7
Part-time positions.....	0.4	0.4	0.4	0.3	0.5	0.6	0.6	0.9	0.8	0.5	0.7	1.0	0.7	0.8
Comprehensive institutions														
All positions	24.8	26.5	26.9	30.5	31.6	35.6	36.0	38.4	39.5	39.5	41.5	42.0	43.6	44.8
Full-time senior faculty	17.0	18.9	19.5	22.5	24.0	26.3	27.5	28.7	29.8	29.0	29.1	28.4	29.6	29.9
Full-time junior faculty	6.1	6.3	5.6	6.3	5.2	6.0	6.3	6.5	6.8	7.4	8.2	9.2	9.9	10.6
Full-time nonfaculty	1.0	0.6	0.9	1.1	1.1	2.0	1.3	1.9	1.5	1.9	2.2	2.0	2.2	2.3
Postdocs	0.1	0.1	0.2	0.1	0.3	0.0	0.0	0.1	0.2	0.1	0.4	0.6	0.1	0.1
Part-time positions.....	0.5	0.6	0.8	0.6	1.0	1.2	0.9	1.2	1.2	1.0	1.6	1.7	1.8	1.9
Freestanding medical schools														
All positions	4.3	4.9	5.9	7.2	7.0	8.3	9.0	9.7	9.6	10.8	11.2	9.8	11.9	12.6
Full-time senior faculty	2.0	2.2	2.6	3.6	3.8	4.0	4.6	4.8	4.7	5.3	5.1	4.3	5.7	6.2
Full-time junior faculty	1.6	1.9	2.1	2.0	1.9	2.5	2.6	2.9	3.1	3.2	3.3	3.1	3.1	3.2
Full-time nonfaculty	0.2	0.2	0.4	0.4	0.6	0.7	0.7	1.0	0.7	1.1	1.2	0.8	1.0	1.3
Postdocs	0.4	0.5	0.6	1.1	0.6	0.8	0.8	0.9	0.8	1.1	1.4	1.4	1.7	1.6
Part-time positions.....	0.2	0.1	0.2	0.1	0.2	0.3	0.3	0.2	0.3	0.1	0.2	0.2	0.4	0.3
Liberal arts colleges														
All positions	10.4	10.8	11.3	12.0	12.6	14.0	14.6	15.3	15.8	16.0	15.8	17.3	18.5	18.6
Full-time senior faculty	6.3	6.6	7.2	8.1	8.4	9.3	10.3	10.8	11.2	10.9	10.7	11.1	12.3	12.1
Full-time junior faculty	3.1	3.3	2.9	2.7	2.9	3.2	3.1	3.1	2.9	3.7	3.9	4.4	4.5	4.3
Full-time nonfaculty	0.6	0.5	0.7	0.8	0.7	0.9	0.7	0.8	1.0	0.9	0.8	0.9	0.9	1.0
Postdocs	0.0	0.1	0.1	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.1	0.1	0.2	0.1
Part-time positions.....	0.3	0.3	0.5	0.4	0.6	0.6	0.5	0.4	0.8	0.4	0.3	0.7	0.6	1.1
Public U&C														
All academic institutions														
All positions.....	93.0	100.4	104.3	113.9	115.9	130.2	135.3	141.2	142.6	144.6	145.7	148.7	153.1	156.4
Full-time senior faculty.....	60.2	65.2	66.9	76.2	79.7	85.0	90.7	92.6	93.7	90.6	88.7	89.8	92.5	91.9
Full-time junior faculty	22.1	23.7	22.4	22.7	20.2	24.1	25.0	25.4	25.8	27.9	28.3	28.2	29.4	31.7
Full-time nonfaculty	5.2	5.1	7.4	8.0	7.8	11.9	10.2	12.5	13.4	14.1	15.3	15.4	16.5	18.3
Postdocs	3.6	4.4	4.8	4.8	4.6	4.7	5.3	6.4	5.3	8.2	9.9	9.8	9.9	8.9
Part-time positions.....	2.0	2.1	2.8	2.3	3.7	4.4	4.1	4.2	4.4	3.9	3.5	5.6	4.9	5.5
Research universities														
All positions	54.8	58.6	62.9	66.7	66.6	75.3	79.0	81.7	80.8	81.9	80.8	82.9	83.6	84.3
Full-time senior faculty	35.4	37.7	39.2	43.3	44.3	47.2	50.7	51.5	50.8	48.5	47.1	48.3	48.7	47.4
Full-time junior faculty	11.8	12.4	12.8	12.5	11.2	13.9	14.0	14.2	13.7	14.9	14.0	13.7	13.8	15.2
Full-time nonfaculty	3.3	3.7	5.1	5.4	5.4	7.9	7.3	8.5	9.4	9.4	10.2	10.7	11.5	12.6
Postdocs	3.1	3.8	4.1	3.9	3.7	4.0	4.5	5.3	4.3	7.0	8.1	8.0	7.9	7.1
Part-time positions.....	1.1	1.1	1.6	1.5	2.0	2.3	2.5	2.3	2.6	2.0	1.4	2.3	1.7	2.0

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S&E doctorate holders employed in academia, by type of position, Carnegie institution type, and administrative control of institution: 1975–2001

(Thousands)

Institution control, institution type, and position	1975	1977	1979	1981	1983	1985	1987	1989	1991	1993	1995	1997	1999	2001
Doctorate-granting institutions														
All positions	11.4	12.2	11.8	13.3	13.7	15.0	15.3	16.5	17.3	16.9	17.7	18.4	18.5	18.4
Full-time senior faculty	8.1	8.5	8.1	9.7	10.4	10.6	11.6	11.6	12.1	11.6	11.6	12.3	12.5	12.4
Full-time junior faculty	2.6	2.9	2.8	2.7	2.3	2.5	2.6	3.1	3.5	3.6	3.8	3.7	3.7	3.7
Full-time nonfaculty	0.4	0.3	0.6	0.6	0.5	1.3	0.7	0.9	1.1	1.0	1.3	1.4	1.3	1.4
Postdocs	0.1	0.2	0.1	0.1	0.2	0.2	0.1	0.3	0.2	0.4	0.5	0.5	0.6	0.5
Part-time positions.....	0.2	0.2	0.2	0.2	0.4	0.4	0.3	0.6	0.4	0.2	0.4	0.5	0.3	0.4
Comprehensive institutions														
All positions	18.8	20.4	19.9	22.4	23.6	26.2	26.8	28.2	28.4	28.9	30.2	31.0	31.5	32.5
Full-time senior faculty	12.9	14.6	14.7	17.0	18.2	19.8	20.5	21.3	21.9	21.5	21.4	21.0	21.6	22.0
Full-time junior faculty	4.9	4.9	3.8	4.2	3.7	4.1	4.5	4.6	4.6	5.2	6.0	6.6	7.1	7.4
Full-time nonfaculty	0.7	0.4	0.8	0.9	0.9	1.4	1.0	1.4	1.3	1.4	1.7	1.6	1.6	1.9
Postdocs	0.1	0.0	0.1	0.1	0.2	0.0	0.0	0.1	0.2	0.1	0.3	0.5	0.1	0.1
Part-time positions.....	0.3	0.4	0.5	0.3	0.7	0.9	0.7	0.8	0.5	0.6	0.9	1.3	1.2	1.1
Freestanding medical schools														
All positions	3.1	3.6	4.3	5.4	5.2	5.9	6.1	6.6	6.8	7.4	7.7	6.4	8.2	9.0
Full-time senior faculty	1.4	1.6	1.9	2.7	2.9	3.0	3.3	3.3	3.5	3.8	3.7	3.0	4.0	4.5
Full-time junior faculty	1.2	1.4	1.4	1.5	1.3	1.6	1.6	1.8	2.0	2.1	2.4	1.9	2.0	2.2
Full-time nonfaculty	0.1	0.2	0.4	0.3	0.4	0.4	0.4	0.7	0.5	0.8	0.8	0.5	0.6	0.9
Postdocs	0.3	0.3	0.5	0.8	0.4	0.6	0.5	0.6	0.5	0.7	0.8	0.8	1.2	1.1
Part-time positions.....	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.0	0.1	0.3	0.2
Liberal arts colleges														
All positions	1.3	1.5	1.5	1.7	1.9	2.2	2.5	2.7	2.6	2.6	2.4	3.0	2.7	2.9
Full-time senior faculty	0.7	0.9	1.0	1.2	1.3	1.5	1.8	1.8	2.0	2.0	1.6	2.0	1.9	1.8
Full-time junior faculty	0.4	0.4	0.3	0.4	0.5	0.4	0.5	0.5	0.5	0.5	0.6	0.7	0.6	0.7
Full-time nonfaculty	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2
Postdocs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Part-time positions.....	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.0	0.1	0.1	0.2
Private U&C														
All academic institutions														
All positions.....	40.0	42.2	45.0	51.0	50.3	58.3	60.2	65.1	67.0	67.1	68.7	68.8	74.8	76.7
Full-time senior faculty.....	23.6	24.3	26.2	29.8	30.2	34.0	36.4	38.3	39.1	37.2	37.3	36.6	41.3	41.9
Full-time junior faculty	9.8	10.8	10.7	11.7	10.6	12.6	12.0	13.2	14.1	15.5	15.1	15.7	16.1	16.4
Full-time nonfaculty	2.9	2.9	3.4	4.3	4.2	5.9	6.1	6.6	6.6	7.7	7.8	6.6	7.4	8.0
Postdocs	2.5	3.2	3.2	3.7	3.3	3.8	4.0	5.0	4.5	4.9	6.6	7.4	7.1	7.4
Part-time positions.....	1.2	1.1	1.5	1.6	2.0	1.9	1.6	1.9	2.8	1.8	1.8	2.6	2.8	3.0
Research universities														
All positions	18.6	19.6	20.6	24.4	23.2	27.5	27.9	30.8	30.8	31.1	32.0	30.7	33.6	35.3
Full-time senior faculty	10.1	10.3	10.7	12.4	11.9	13.7	14.2	14.9	14.8	14.1	14.1	13.3	15.5	15.7
Full-time junior faculty	4.1	4.2	4.3	5.6	4.8	5.8	5.3	6.1	6.5	6.9	6.5	6.3	6.1	6.5
Full-time nonfaculty	1.8	1.9	2.4	2.7	2.7	3.8	4.3	4.7	4.5	5.2	5.5	4.4	4.9	5.6
Postdocs	2.1	2.8	2.7	3.1	2.9	3.4	3.6	4.4	4.0	4.3	5.5	5.9	6.2	6.6
Part-time positions.....	0.4	0.4	0.5	0.6	0.9	0.8	0.5	0.8	1.0	0.6	0.4	0.9	0.9	0.8
Doctorate-granting institutions														
All positions	4.5	5.0	5.4	5.5	5.8	6.2	6.9	7.1	7.5	7.3	7.3	7.4	7.9	7.9
Full-time senior faculty	2.8	3.1	3.4	3.7	4.1	4.4	4.8	4.8	4.9	4.6	4.4	4.5	4.9	5.0
Full-time junior faculty	1.3	1.5	1.4	1.2	1.2	1.1	1.3	1.3	1.6	1.7	1.7	1.4	1.7	1.8
Full-time nonfaculty	0.2	0.2	0.2	0.2	0.2	0.3	0.5	0.4	0.6	0.7	0.6	0.5	0.6	0.5
Postdocs	0.1	0.1	0.2	0.3	0.1	0.1	0.1	0.2	0.1	0.1	0.3	0.5	0.2	0.2
Part-time positions.....	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.5	0.4	0.3
Comprehensive institutions														
All positions	5.9	6.2	7.0	8.2	8.0	9.4	9.2	10.1	11.1	10.6	11.2	11.0	12.1	12.3
Full-time senior faculty	4.1	4.3	4.8	5.5	5.8	6.5	7.0	7.4	8.0	7.5	7.7	7.4	8.0	8.0
Full-time junior faculty	1.3	1.4	1.8	2.1	1.5	1.9	1.8	1.9	2.2	2.2	2.2	2.6	2.9	3.2
Full-time nonfaculty	0.3	0.2	0.2	0.2	0.3	0.7	0.2	0.5	0.2	0.5	0.5	0.5	0.6	0.4
Postdocs	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0
Part-time positions.....	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.4	0.7	0.4	0.7	0.5	0.6	0.7

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(Thousands)

Institution control, institution type, and position	1975	1977	1979	1981	1983	1985	1987	1989	1991	1993	1995	1997	1999	2001
Freestanding medical schools														
All positions	1.2	1.3	1.5	1.8	1.8	2.3	2.9	3.1	2.8	3.4	3.4	3.5	3.7	3.6
Full-time senior faculty	0.5	0.6	0.7	0.9	0.9	1.0	1.3	1.4	1.3	1.5	1.5	1.2	1.6	1.7
Full-time junior faculty	0.4	0.5	0.6	0.5	0.5	0.8	1.0	1.1	1.0	1.1	1.0	1.2	1.1	0.9
Full-time nonfaculty	0.1	0.1	0.0	0.1	0.1	0.2	0.3	0.2	0.2	0.3	0.4	0.3	0.4	0.4
Postdocs	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.3	0.3	0.4	0.5	0.7	0.5	0.5
Part-time positions.....	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1
Liberal arts colleges														
All positions	9.1	9.3	9.8	10.4	10.6	11.8	12.1	12.6	13.2	13.4	13.4	14.3	15.8	15.7
Full-time senior faculty	5.6	5.6	6.1	6.9	7.1	7.8	8.5	9.0	9.2	8.9	9.1	9.1	10.4	10.3
Full-time junior faculty	2.7	2.9	2.6	2.3	2.4	2.8	2.5	2.6	2.4	3.2	3.4	3.8	3.9	3.6
Full-time nonfaculty	0.5	0.4	0.6	0.7	0.6	0.7	0.6	0.6	0.9	0.8	0.6	0.6	0.7	0.9
Postdocs	0.0	0.1	0.1	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.1	0.1	0.2	0.1
Part-time positions.....	0.3	0.2	0.4	0.4	0.5	0.4	0.4	0.4	0.6	0.4	0.2	0.6	0.5	0.9

U&C universities and colleges

NOTES: Employment at institutions without a Carnegie code or with unknown administrative control is included only in total. Freestanding schools of engineering and technology are included under comprehensive institutions. Senior faculty includes full and associate professors; junior faculty includes assistant professors and instructors; and full-time nonfaculty includes positions such as research associates, adjunct appointments, lecturers, and administrative positions. See chapter 2, "Classification of Academic Institutions," for information on the institutional categories used by the Carnegie Foundation for the Advancement of Teaching. Details may not add to totals because of rounding.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Doctorate Recipients, unpublished tabulations.

Science & Engineering Indicators – 2004