

Appendix table 5-31

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**Estimates of academic S&E doctoral researchers and graduate research assistants, by degree field and work activity: 1975–2001**

Field	All academic employment		Researchers		Research as primary activity		Research assistants	
	Thousands	Percent distribution	Thousands	Percent distribution	Thousands	Percent distribution	Thousands	Percent distribution
<b>All fields</b>								
1975 .....	134.1	100.0	90.6	100.0	30.8	100.0	40.0	100.0
1977 .....	145.4	100.0	85.0	100.0	37.0	100.0	43.7	100.0
1979 .....	155.3	100.0	90.0	100.0	41.3	100.0	49.0	100.0
1981 .....	167.1	100.0	100.7	100.0	46.5	100.0	52.7	100.0
1983 .....	176.1	100.0	104.7	100.0	48.9	100.0	54.9	100.0
1985 .....	190.2	100.0	115.2	100.0	55.9	100.0	61.0	100.0
1987 .....	195.9	100.0	144.0	100.0	66.5	100.0	70.2	100.0
1989 .....	206.6	100.0	151.6	100.0	72.2	100.0	79.1	100.0
1991 .....	210.6	100.0	156.6	100.0	73.9	100.0	85.2	100.0
1993 .....	213.8	100.0	150.1	100.0	80.2	100.0	90.2	100.0
1995 .....	217.5	100.0	153.5	100.0	83.0	100.0	89.9	100.0
1997 .....	232.5	100.0	164.7	100.0	88.6	100.0	88.0	100.0
1999 .....	240.2	100.0	168.1	100.0	91.4	100.0	91.3	100.0
2001 .....	245.5	100.0	172.5	100.0	93.8	100.0	99.7	100.0
<b>Physical sciences</b>								
1975 .....	23.6	17.6	16.9	18.7	6.4	20.8	6.4	16.1
1977 .....	25.0	17.2	16.3	19.2	7.9	21.3	6.8	15.6
1979 .....	24.6	15.9	15.4	17.1	7.5	18.3	7.8	15.9
1981 .....	25.3	15.2	16.3	16.2	8.0	17.1	8.6	16.3
1983 .....	25.1	14.3	16.1	15.3	7.7	15.9	9.1	16.7
1985 .....	27.0	14.2	17.7	15.4	9.4	16.8	10.3	16.9
1987 .....	27.2	13.9	20.3	14.1	10.2	15.3	11.6	16.5
1989 .....	27.7	13.4	20.8	13.7	10.9	15.1	12.4	15.7
1991 .....	27.7	13.1	20.8	13.3	10.6	14.4	12.2	14.4
1993 .....	28.6	13.4	20.0	13.3	12.0	15.0	12.3	13.6
1995 .....	29.4	13.5	20.6	13.4	12.6	15.2	11.8	13.1
1997 .....	30.2	13.0	21.8	13.2	12.7	14.4	11.3	12.8
1999 .....	30.9	12.9	21.6	12.8	12.2	13.3	11.3	12.3
2001 .....	30.4	12.4	21.0	12.2	11.9	12.7	11.8	11.8
<b>Mathematics</b>								
1975 .....	11.0	8.2	7.5	8.2	1.5	4.7	0.6	1.6
1977 .....	11.7	8.0	6.8	8.0	1.8	4.9	0.8	1.8
1979 .....	12.2	7.9	6.9	7.7	2.1	5.0	0.8	1.7
1981 .....	12.4	7.4	6.8	6.8	1.9	4.2	0.8	1.4
1983 .....	12.9	7.3	7.2	6.9	2.0	4.0	0.8	1.5
1985 .....	13.6	7.1	7.6	6.6	2.7	4.8	1.0	1.6
1987 .....	13.8	7.1	9.7	6.7	3.2	4.7	1.1	1.6
1989 .....	14.5	7.0	10.2	6.8	3.5	4.8	1.3	1.6
1991 .....	15.2	7.2	10.7	6.9	3.5	4.8	1.4	1.6
1993 .....	15.5	7.2	9.5	6.3	3.4	4.2	1.4	1.6
1995 .....	14.6	6.7	9.4	6.1	3.3	3.9	1.5	1.6
1997 .....	15.6	6.7	10.1	6.2	3.5	4.0	1.4	1.6
1999 .....	15.2	6.3	9.9	5.9	2.9	3.2	1.3	1.4
2001 .....	14.9	6.1	9.8	5.7	3.3	3.5	1.4	1.4
<b>Computer sciences</b>								
1975 .....	NA	NA	NA	NA	NA	NA	0.7	1.9
1977 .....	NA	NA	NA	NA	NA	NA	0.7	1.7
1979 .....	0.1	0.1	0.1	0.1	0.0	0.1	0.8	1.7
1981 .....	0.3	0.2	0.3	0.3	0.1	0.2	1.1	2.1
1983 .....	0.5	0.3	0.4	0.3	0.2	0.4	1.4	2.5
1985 .....	0.8	0.4	0.6	0.5	0.4	0.7	2.1	3.4
1987 .....	1.1	0.5	1.0	0.7	0.7	1.0	2.8	4.0
1989 .....	1.5	0.7	1.3	0.9	0.8	1.1	3.3	4.2
1991 .....	2.0	0.9	1.7	1.1	1.1	1.4	3.6	4.2
1993 .....	2.5	1.2	2.0	1.3	0.9	1.1	3.8	4.2
1995 .....	3.1	1.4	2.4	1.6	1.0	1.3	3.9	4.4
1997 .....	3.3	1.4	2.4	1.5	1.1	1.2	4.0	4.6
1999 .....	3.7	1.5	2.6	1.6	1.1	1.2	4.9	5.4
2001 .....	3.8	1.5	2.6	1.5	1.3	1.4	4.2	4.2

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**Estimates of academic S&E doctoral researchers and graduate research assistants, by degree field and work activity: 1975–2001**

Field	All academic employment		Researchers		Research as primary activity		Research assistants	
	Thousands	Percent distribution	Thousands	Percent distribution	Thousands	Percent distribution	Thousands	Percent distribution
<b>Earth, atmospheric, and ocean sciences</b>								
1975 .....	3.9	2.9	2.8	3.1	0.8	2.7	2.8	7.1
1977 .....	4.2	2.9	2.9	3.4	1.0	2.7	3.2	7.4
1979 .....	4.2	2.7	2.7	3.0	1.0	2.4	3.6	7.3
1981 .....	4.6	2.7	3.2	3.2	1.4	2.9	3.5	6.6
1983 .....	4.8	2.7	3.3	3.1	1.5	3.0	3.5	6.4
1985 .....	5.2	2.8	3.7	3.2	1.6	2.9	3.7	6.1
1987 .....	5.6	2.8	4.6	3.2	2.1	3.2	3.6	5.2
1989 .....	5.9	2.8	4.9	3.2	2.4	3.3	4.2	5.2
1991 .....	6.0	2.9	5.1	3.3	2.5	3.4	4.4	5.2
1993 .....	6.4	3.0	5.0	3.3	2.7	3.4	4.7	5.2
1995 .....	6.4	3.0	5.1	3.3	2.6	3.1	4.7	5.2
1997 .....	7.3	3.2	5.6	3.4	2.9	3.2	4.3	4.9
1999 .....	7.8	3.2	5.6	3.4	2.9	3.2	4.3	4.7
2001 .....	8.2	3.3	6.3	3.6	3.1	3.3	6.5	6.5
<b>Life sciences</b>								
1975 .....	39.4	29.4	29.0	32.0	14.5	47.0	11.3	28.3
1977 .....	42.6	29.3	28.7	33.7	16.6	44.7	13.1	30.0
1979 .....	47.0	30.3	32.1	35.6	19.7	47.6	15.4	31.5
1981 .....	51.3	30.7	37.1	36.8	23.2	49.9	16.3	31.0
1983 .....	54.8	31.1	38.3	36.6	24.3	49.7	16.5	30.0
1985 .....	58.7	30.8	41.4	35.9	27.1	48.4	17.9	29.3
1987 .....	61.2	31.3	48.8	33.9	31.5	47.3	20.2	28.8
1989 .....	64.8	31.3	51.8	34.1	33.8	46.7	23.2	29.3
1991 .....	66.9	31.8	53.3	34.1	34.5	46.7	25.8	30.3
1993 .....	68.2	31.9	51.8	34.5	36.0	44.9	28.0	31.1
1995 .....	71.6	32.9	53.8	35.1	37.7	45.3	29.3	32.5
1997 .....	77.3	33.2	57.9	35.2	40.5	45.7	28.6	32.5
1999 .....	81.9	34.1	60.8	36.2	43.2	47.2	29.0	31.7
2001 .....	84.3	34.3	63.1	36.6	43.7	46.6	31.0	31.0
<b>Psychology</b>								
1975 .....	14.8	11.0	8.5	9.4	2.2	7.1	2.2	5.5
1977 .....	16.2	11.1	7.7	9.1	2.8	7.5	2.3	5.3
1979 .....	17.7	11.4	8.3	9.2	3.4	8.3	2.5	5.2
1981 .....	20.1	12.0	9.9	9.8	4.1	8.8	2.9	5.5
1983 .....	21.0	11.9	10.5	10.0	4.4	8.9	3.0	5.4
1985 .....	23.1	12.1	10.7	9.3	4.6	8.2	3.1	5.0
1987 .....	23.7	12.1	14.3	9.9	5.2	7.8	3.2	4.6
1989 .....	25.0	12.1	14.3	9.5	5.9	8.2	3.8	4.9
1991 .....	25.2	12.0	15.7	10.0	6.2	8.4	4.2	5.0
1993 .....	25.0	11.7	14.9	9.9	6.7	8.3	4.6	5.1
1995 .....	26.1	12.0	15.6	10.1	7.4	8.9	4.6	5.1
1997 .....	27.3	11.7	16.1	9.8	8.0	9.0	4.8	5.4
1999 .....	29.0	12.1	17.2	10.2	8.6	9.5	4.8	5.3
2001 .....	30.4	12.4	18.2	10.5	8.7	9.3	4.9	4.9
<b>Social sciences</b>								
1975 .....	28.0	20.9	16.9	18.6	3.2	10.2	4.8	12.0
1977 .....	31.1	21.4	13.8	16.2	4.1	11.1	4.9	11.2
1979 .....	33.6	21.6	14.7	16.3	4.2	10.1	5.2	10.6
1981 .....	36.9	22.1	17.6	17.5	4.5	9.7	5.2	9.8
1983 .....	38.8	22.0	17.8	17.0	4.9	10.1	5.0	9.2
1985 .....	41.9	22.0	20.9	18.2	5.7	10.2	5.1	8.3
1987 .....	42.1	21.5	28.5	19.8	7.5	11.3	5.5	7.8
1989 .....	44.5	21.5	30.5	20.1	8.2	11.3	6.2	7.9
1991 .....	44.8	21.3	31.1	19.8	8.4	11.3	6.8	8.0
1993 .....	44.4	20.8	29.3	19.5	10.7	13.4	7.4	8.2
1995 .....	42.5	19.5	28.1	18.3	9.8	11.8	7.2	8.0
1997 .....	44.9	19.3	29.8	18.1	9.8	11.1	6.7	7.7
1999 .....	46.2	19.2	30.9	18.4	11.1	12.1	7.2	7.9
2001 .....	46.9	19.1	31.4	18.2	11.7	12.4	7.8	7.8

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**Estimates of academic S&E doctoral researchers and graduate research assistants, by degree field and work activity: 1975–2001**

Field	All academic employment		Researchers		Research as primary activity		Research assistants	
	Thousands	Percent distribution	Thousands	Percent distribution	Thousands	Percent distribution	Thousands	Percent distribution
Engineering								
1975 .....	13.4	10.0	9.0	10.0	2.3	7.5	11.0	27.5
1977 .....	14.8	10.1	8.9	10.5	2.9	7.9	11.8	27.1
1979 .....	15.8	10.2	9.8	10.9	3.4	8.2	12.8	26.2
1981 .....	16.1	9.7	9.5	9.5	3.3	7.2	14.4	27.3
1983 .....	18.1	10.3	11.2	10.7	3.9	7.9	15.5	28.3
1985 .....	19.9	10.5	12.5	10.8	4.4	7.9	17.9	29.4
1987 .....	21.2	10.8	16.8	11.6	6.2	9.3	22.2	31.6
1989 .....	22.8	11.0	17.6	11.6	6.9	9.5	24.6	31.1
1991 .....	22.8	10.8	18.2	11.6	7.2	9.7	26.8	31.4
1993 .....	23.1	10.8	17.5	11.7	7.9	9.8	27.9	31.0
1995 .....	23.8	10.9	18.5	12.1	8.7	10.5	27.0	30.1
1997 .....	26.6	11.4	20.9	12.7	10.1	11.4	26.9	30.6
1999 .....	25.5	10.6	19.4	11.6	9.4	10.3	28.7	31.4
2001 .....	26.6	10.8	20.2	11.7	10.1	10.7	32.2	32.3

NA not available

NOTES: Researchers are those reporting research as either primary or secondary work activity. Graduate research assistants are full-time students with research assistantships as their primary mechanism of support. Percents may not sum to 100 because of rounding.

SOURCES: National Science Foundation, Division of Science Resources Statistics (NSF/SRS), Survey of Doctorate Recipients; and NSF/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering, unpublished tabulations.