

TABLE E-4. Racial/ethnic distribution of S&E master's degrees awarded to U.S. citizens and permanent residents, by field: 1996–2005

(Percent)

Field and race/ethnicity	1996	1997	1998	2000	2001	2002	2003	2004	2005
White									
All fields	78.4	77.6	76.9	74.2	72.4	71.1	69.6	68.0	68.0
S&E	75.2	74.5	73.4	70.3	68.2	67.6	66.1	65.4	64.8
Sciences	76.1	75.1	74.1	70.6	68.4	67.7	66.2	65.6	65.1
Agricultural sciences	86.8	85.9	86.6	85.7	84.8	83.4	84.2	82.6	82.0
Biological sciences	78.0	77.5	77.0	75.0	73.5	73.9	73.0	70.7	70.6
Computer sciences	64.9	63.0	61.5	55.7	52.8	53.3	50.4	51.5	53.7
Earth, atmospheric, and ocean sciences	86.8	90.5	90.8	90.1	87.6	88.2	87.5	87.2	86.2
Atmospheric sciences	90.8	89.5	87.5	94.1	85.3	86.7	91.4	88.9	89.8
Earth sciences	88.7	91.0	91.5	89.5	88.8	88.9	87.4	87.1	85.1
Ocean sciences	64.6	86.5	89.4	91.4	77.3	82.8	84.7	86.6	92.5
Mathematics and statistics	76.8	76.9	75.8	75.8	73.9	73.6	74.0	71.5	70.3
Physical sciences	78.2	76.4	75.5	74.8	75.0	73.2	73.5	76.0	73.6
Astronomy	84.0	90.5	89.0	81.3	72.3	76.6	71.3	74.5	80.3
Chemistry	74.9	71.2	71.1	71.0	71.5	69.5	69.8	73.1	68.7
Physics	80.0	80.5	78.9	76.9	77.6	73.9	75.4	78.2	76.0
Other	87.7	89.6	83.7	87.8	87.8	86.7	86.3	87.3	88.6
Psychology	79.8	78.9	77.4	72.8	70.6	68.7	67.8	67.4	65.7
Social sciences	74.3	72.6	72.1	69.0	66.8	66.3	64.9	64.1	62.6
Anthropology	82.5	84.5	82.9	79.4	79.7	76.8	77.4	77.5	75.3
Area and ethnic studies	67.1	71.0	71.5	69.1	61.7	60.6	56.9	61.4	56.0
Economics	74.4	71.9	74.1	69.4	71.7	69.4	61.9	62.1	61.8
History of science	90.0	75.0	100.0	90.9	85.7	69.7	72.2	77.3	87.0
Linguistics	79.1	77.0	76.0	77.6	72.1	76.9	73.1	72.9	71.1
Political science and public administration	73.8	71.1	69.7	66.8	64.0	63.9	63.1	62.3	61.1
Sociology	70.4	71.5	71.8	68.0	67.5	67.0	67.5	65.6	63.6
Other	79.3	76.4	76.7	74.1	72.9	73.0	71.8	67.8	67.3
Engineering	72.3	72.5	71.2	69.3	67.4	67.3	65.7	64.4	63.8
Aerospace engineering	74.1	78.2	79.4	83.8	76.9	78.5	77.6	76.7	76.2
Chemical engineering	73.8	72.3	68.8	69.5	67.1	65.7	65.6	64.6	61.2
Civil engineering	77.8	77.6	78.3	76.7	76.6	74.5	74.3	75.1	72.9
Electrical engineering	63.4	64.2	60.9	58.5	56.7	57.2	55.3	53.3	53.7
Industrial engineering	72.4	72.6	70.2	66.1	64.8	64.4	62.5	60.0	56.3
Materials engineering	79.0	74.2	79.6	77.2	72.1	74.4	74.0	72.9	69.6
Mechanical engineering	75.5	75.6	74.9	73.7	70.1	71.5	72.3	70.0	71.8
Other	75.5	74.0	74.1	72.6	71.1	71.1	67.5	68.2	66.3
Non-S&E	79.2	78.4	77.7	75.0	73.3	71.8	70.4	68.5	68.6
Asian/Pacific Islander									
All fields	4.8	4.8	5.3	5.3	5.4	5.4	5.5	5.6	5.8
S&E	8.6	8.6	9.2	9.9	9.8	9.5	10.0	10.3	10.2
Sciences	6.8	7.0	7.6	8.4	8.3	8.2	8.7	8.6	8.5
Agricultural sciences	3.3	3.2	2.5	2.8	3.0	3.6	2.9	3.1	3.1
Biological sciences	10.0	10.1	10.8	10.7	9.6	9.7	11.0	11.7	11.5
Computer sciences	19.1	20.3	22.7	25.5	23.9	22.5	22.5	21.1	21.2
Earth, atmospheric, and ocean sciences	3.0	2.5	2.5	1.9	2.4	3.1	2.2	3.0	2.2
Atmospheric sciences	3.7	2.8	7.2	3.4	4.3	6.2	3.1	3.7	1.9
Earth sciences	2.9	2.0	1.5	1.8	1.7	2.5	1.7	2.6	2.3
Ocean sciences	2.7	7.3	4.3	1.4	6.8	5.4	5.4	5.0	1.1
Mathematics and statistics	8.1	9.1	8.6	8.2	10.0	10.1	10.1	10.9	11.5
Physical sciences	9.3	10.2	9.3	10.1	8.8	8.7	9.2	7.4	8.9
Astronomy	7.4	2.7	4.9	6.3	7.7	5.2	7.4	5.9	5.7

TABLE E-4. Racial/ethnic distribution of S&E master's degrees awarded to U.S. citizens and permanent residents, by field: 1996–2005

(Percent)

Field and race/ethnicity	1996	1997	1998	2000	2001	2002	2003	2004	2005
Chemistry	12.3	13.1	11.9	13.1	11.0	9.9	12.1	9.2	11.9
Physics	7.1	7.8	6.8	7.0	6.9	8.0	6.7	5.9	6.5
Other	1.3	2.7	4.4	4.5	2.5	6.7	3.7	1.2	4.5
Psychology	2.6	2.8	3.0	3.6	3.6	3.9	3.8	3.9	3.8
Social sciences	4.7	4.8	5.0	5.1	5.2	5.1	5.6	5.6	6.0
Anthropology	2.8	2.5	3.6	4.5	3.9	3.7	4.4	4.3	4.3
Area and ethnic studies	5.8	6.5	6.2	6.0	7.8	7.2	8.0	6.8	7.7
Economics	8.9	10.6	8.8	10.9	9.6	10.0	11.7	10.5	10.4
History of science	0.0	0.0	0.0	0.0	0.0	6.1	11.1	13.6	4.3
Linguistics	9.5	7.8	9.8	11.1	10.9	7.4	9.1	9.3	9.7
Political science and public administration	4.3	4.2	4.8	4.6	4.9	4.6	5.0	5.3	5.7
Sociology	3.9	4.4	4.4	3.6	4.0	4.9	5.4	5.8	5.8
Other	3.3	4.2	3.4	4.4	3.8	3.7	3.5	3.8	4.3
Engineering	14.0	13.5	14.4	15.0	15.6	14.2	15.0	16.4	16.1
Aerospace engineering	8.3	9.5	9.4	7.7	10.3	7.3	9.4	8.8	8.4
Chemical engineering	12.0	11.6	15.8	15.8	16.5	14.5	14.6	19.2	14.3
Civil engineering	10.4	10.5	9.3	9.3	7.9	7.9	9.0	9.1	9.7
Electrical engineering	21.9	21.4	24.3	25.1	25.9	22.8	23.8	26.9	26.4
Industrial engineering	9.6	8.2	9.0	10.3	10.6	9.7	13.2	12.5	15.2
Materials engineering	10.2	13.1	11.2	11.2	13.4	11.1	13.9	12.7	14.2
Mechanical engineering	11.7	11.3	11.5	12.0	16.1	14.2	11.7	13.2	11.5
Other	12.6	12.1	12.7	12.8	12.6	12.6	12.4	12.7	13.2
Non-S&E	3.8	3.9	4.3	4.4	4.5	4.6	4.6	4.6	4.9
Black									
All fields	6.8	7.3	7.5	8.3	8.6	8.7	9.0	9.2	9.5
S&E	6.0	6.7	6.9	7.7	8.5	8.6	9.0	9.0	8.8
Sciences	6.8	7.6	7.7	8.8	9.7	9.6	10.1	10.2	10.0
Agricultural sciences	2.6	2.9	2.9	2.5	2.9	2.5	3.0	2.9	2.4
Biological sciences	3.8	4.2	3.5	4.0	5.6	5.2	5.1	5.9	5.4
Computer sciences	6.5	6.3	6.1	7.3	7.6	7.4	8.7	8.2	7.2
Earth, atmospheric, and ocean sciences	0.9	1.0	1.2	0.6	1.8	1.5	1.4	1.7	1.3
Atmospheric sciences	0.0	1.4	1.3	0.0	3.4	1.8	1.6	2.2	2.4
Earth sciences	0.9	1.0	1.3	0.6	1.5	1.5	1.2	1.5	1.1
Ocean sciences	1.8	0.0	0.0	1.4	2.3	1.1	2.7	2.5	1.1
Mathematics and statistics	5.3	5.9	5.7	4.5	5.5	5.3	4.5	4.6	4.8
Physical sciences	3.6	4.8	4.9	4.9	5.2	5.0	4.5	4.5	3.7
Astronomy	1.1	2.7	0.0	0.0	0.0	2.6	1.1	1.0	1.6
Chemistry	4.4	5.6	5.5	5.0	5.9	5.9	5.9	6.3	4.3
Physics	3.0	4.2	3.9	5.8	5.1	4.5	3.8	2.7	3.4
Other	3.0	3.2	6.7	3.6	3.0	3.0	1.5	3.0	2.8
Psychology	6.9	8.0	8.0	10.2	11.5	12.0	13.0	13.1	13.8
Social sciences	9.4	10.6	11.1	12.4	13.2	13.1	13.3	13.5	13.0
Anthropology	2.9	2.8	2.6	3.8	3.7	3.5	3.4	3.1	2.9
Area and ethnic studies	6.6	7.8	7.8	7.0	6.7	8.5	9.6	9.3	9.3
Economics	5.9	6.6	6.5	5.9	5.6	6.4	5.0	4.7	5.4
History of science	0.0	6.3	0.0	0.0	4.8	6.1	0.0	0.0	0.0
Linguistics	1.6	2.5	2.9	1.1	3.6	1.4	2.0	0.8	2.1
Political science and public administration	10.3	12.0	13.0	14.3	16.0	15.6	15.6	15.3	15.0
Sociology	15.8	15.6	13.6	18.6	16.9	16.1	15.7	16.4	15.2
Other	8.8	9.4	10.3	10.2	10.1	10.9	12.5	14.7	13.5
Engineering	3.6	3.9	4.2	4.1	4.5	4.8	5.1	4.7	4.5
Aerospace engineering	1.7	2.0	1.9	2.1	2.8	3.5	1.8	1.9	2.9

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(Percent)									
Field and race/ethnicity	1996	1997	1998	2000	2001	2002	2003	2004	2005
Chemical engineering	4.0	4.7	5.5	4.7	4.7	4.7	6.5	4.4	7.6
Civil engineering	3.2	3.0	3.6	3.1	3.7	3.9	3.6	2.7	3.2
Electrical engineering	3.8	3.9	4.4	4.3	4.7	4.7	5.1	4.5	4.4
Industrial engineering	5.5	4.8	5.5	4.8	6.0	7.3	7.6	7.5	7.0
Materials engineering	1.8	3.8	2.9	3.1	2.2	4.9	3.7	5.0	4.2
Mechanical engineering	3.0	4.2	4.0	4.1	4.0	3.2	3.5	3.2	2.9
Other	3.5	4.3	4.0	4.8	4.8	5.3	5.9	6.1	5.4
Non-S&E	7.0	7.4	7.7	8.4	8.7	8.8	9.0	9.3	9.6
Hispanic									
All fields	4.3	4.4	4.6	5.2	5.5	5.5	5.7	6.1	6.4
S&E	4.2	4.5	4.9	5.3	5.7	5.7	5.8	6.1	6.2
Sciences	4.3	4.5	4.9	5.3	5.8	5.8	5.9	6.1	6.3
Agricultural sciences	2.8	3.2	3.6	4.0	3.7	4.9	3.8	4.8	5.2
Biological sciences	3.7	3.8	3.5	4.8	5.5	4.8	4.5	5.1	5.2
Computer sciences	2.8	3.2	3.1	3.6	5.1	3.7	5.5	5.5	4.5
Earth, atmospheric, and ocean sciences	2.2	1.9	1.6	2.6	2.4	2.9	2.2	2.7	3.3
Atmospheric sciences	0.6	2.1	1.3	1.7	0.0	0.9	1.6	1.5	1.5
Earth sciences	2.6	1.9	1.7	2.7	2.5	3.1	2.3	3.0	3.8
Ocean sciences	0.9	2.1	1.1	2.9	3.4	3.2	1.8	1.7	1.1
Mathematics and statistics	3.2	2.4	3.4	4.6	3.5	3.9	4.9	4.5	4.6
Physical sciences	3.5	4.2	4.8	4.0	4.8	5.6	5.7	4.8	5.3
Astronomy	4.3	2.7	0.0	2.5	1.5	2.6	2.1	2.9	1.6
Chemistry	3.1	4.8	5.8	4.3	5.3	5.7	6.9	5.1	6.5
Physics	3.6	3.8	4.0	4.5	4.6	6.8	4.8	4.4	4.6
Other	4.7	2.7	3.7	1.8	3.0	2.2	4.1	6.0	2.8
Psychology	5.3	5.4	6.2	6.3	6.8	7.0	6.9	7.4	7.9
Social sciences	4.9	5.1	5.7	6.0	6.4	6.6	6.6	6.6	6.9
Anthropology	3.7	3.6	4.7	4.3	4.5	6.4	5.0	5.8	6.0
Area and ethnic studies	6.9	6.5	7.2	8.2	8.8	9.5	11.0	8.6	10.4
Economics	4.0	4.9	4.4	5.5	4.5	4.8	5.9	5.4	6.3
History of science	0.0	6.3	0.0	0.0	4.8	0.0	5.6	0.0	0.0
Linguistics	5.3	5.1	6.4	4.7	6.9	5.4	6.5	6.5	6.2
Political science and public administration	5.1	5.5	5.8	6.3	6.7	6.7	6.7	6.8	6.9
Sociology	5.3	4.4	6.0	6.0	6.7	7.9	6.7	7.6	8.2
Other	3.4	3.4	5.0	4.1	5.0	4.9	4.5	5.2	5.7
Engineering	4.0	4.4	4.8	5.4	5.4	5.5	5.4	6.2	6.0
Aerospace engineering	1.7	4.5	4.3	3.8	3.1	4.8	3.1	3.6	5.9
Chemical engineering	5.2	6.8	5.9	5.4	5.5	6.8	5.9	5.7	5.5
Civil engineering	4.0	4.3	4.5	5.9	6.0	7.2	5.7	5.9	6.8
Electrical engineering	4.2	4.4	4.3	5.0	4.3	4.5	5.5	6.4	5.3
Industrial engineering	6.4	5.8	7.5	9.2	9.6	10.4	7.8	10.1	11.0
Materials engineering	4.2	4.7	3.4	3.1	5.4	4.1	1.6	3.8	5.8
Mechanical engineering	3.5	4.3	4.8	4.5	4.2	3.9	5.2	6.0	5.4
Other	2.7	3.3	3.9	4.1	4.6	3.6	4.2	4.6	4.2
Non-S&E	4.3	4.4	4.5	5.2	5.4	5.5	5.7	6.1	6.5
American Indian/Alaskan Native									
All fields	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6
S&E	0.4	0.5	0.5	0.5	0.7	0.6	0.6	0.6	0.6
Sciences	0.5	0.6	0.6	0.6	0.7	0.6	0.6	0.7	0.6
Agricultural sciences	0.4	0.6	0.7	0.7	0.5	0.7	0.7	0.6	0.8
Biological sciences	0.3	0.4	0.4	0.5	0.5	0.6	0.5	0.5	0.4

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Field and race/ethnicity	1996	1997	1998	2000	2001	2002	2003	2004	2005
Computer sciences	0.4	0.4	0.2	0.4	0.8	0.4	0.4	0.5	0.3
Earth, atmospheric, and ocean sciences	0.4	0.4	0.8	0.8	0.9	0.3	0.7	0.5	0.8
Atmospheric sciences	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
Earth sciences	0.4	0.5	0.8	0.9	0.8	0.4	0.9	0.7	0.9
Ocean sciences	0.9	0.0	2.1	0.0	3.4	0.0	0.0	0.0	0.0
Mathematics and statistics	0.2	0.5	0.4	0.4	0.4	0.4	0.4	0.3	0.3
Physical sciences	0.2	0.4	0.5	0.4	0.4	0.6	0.5	0.3	0.4
Astronomy	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.8
Chemistry	0.2	0.5	0.8	0.4	0.5	0.9	0.4	0.2	0.5
Physics	0.2	0.2	0.2	0.4	0.2	0.5	0.6	0.5	0.3
Other	0.0	0.5	0.0	0.5	0.0	0.0	0.4	0.0	0.6
Psychology	0.6	0.7	0.9	0.5	0.8	0.7	0.8	0.7	0.7
Social sciences	0.6	0.6	0.6	0.7	0.9	0.8	0.8	0.9	0.7
Anthropology	1.3	1.0	1.4	1.6	1.7	1.3	1.1	1.9	1.4
Area and ethnic studies	1.5	1.5	1.1	1.2	1.6	1.6	2.6	2.0	1.9
Economics	0.2	0.5	0.3	0.2	0.6	0.8	0.4	0.4	0.6
History of science	0.0	0.0	0.0	0.0	4.8	3.0	0.0	0.0	0.0
Linguistics	0.5	0.4	0.5	0.3	0.3	1.1	0.3	0.5	1.4
Political science and public administration	0.4	0.5	0.4	0.6	0.6	0.7	0.6	0.9	0.6
Sociology	1.2	1.0	1.2	1.6	1.6	1.0	1.0	0.9	0.5
Other	0.3	0.4	0.6	0.7	0.8	0.5	0.3	0.6	0.4
Engineering	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.5	0.4
Aerospace engineering	0.9	0.5	0.0	0.0	0.6	1.0	0.4	1.0	0.3
Chemical engineering	0.5	0.7	0.1	0.4	0.6	0.3	0.3	0.0	0.5
Civil engineering	0.2	0.3	0.4	0.5	0.4	0.4	0.5	0.6	0.4
Electrical engineering	0.3	0.2	0.2	0.3	0.3	0.3	0.4	0.2	0.4
Industrial engineering	0.1	0.3	0.3	0.4	0.8	0.4	0.4	0.8	0.8
Materials engineering	0.4	0.0	0.0	0.8	0.2	0.5	0.3	0.2	0.2
Mechanical engineering	0.4	0.4	0.5	0.3	0.3	0.3	0.4	0.8	0.2
Other	0.2	0.4	0.3	0.5	0.4	0.3	0.5	0.3	0.4
Non-S&E	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6
Other or unknown race/ethnicity									
All fields	5.3	5.4	5.2	6.4	7.6	8.7	9.6	10.5	9.8
S&E	5.6	5.3	5.2	6.3	7.1	8.0	8.5	8.6	9.5
Sciences	5.5	5.2	5.2	6.4	7.2	8.1	8.4	8.8	9.6
Agricultural sciences	4.1	4.2	3.7	4.3	5.0	4.9	5.3	6.0	6.6
Biological sciences	4.3	4.0	4.8	5.1	5.3	5.8	5.9	6.2	6.8
Computer sciences	6.4	6.8	6.4	7.6	9.8	12.7	12.5	13.2	13.1
Earth, atmospheric, and ocean sciences	6.8	3.7	3.0	4.0	5.0	4.0	6.0	4.9	6.2
Atmospheric sciences	4.9	4.2	2.6	0.8	6.9	4.4	2.3	3.7	3.9
Earth sciences	4.5	3.5	3.1	4.5	4.7	3.6	6.5	5.1	6.8
Ocean sciences	29.2	4.2	3.2	2.9	6.8	7.5	5.4	4.2	4.3
Mathematics and statistics	6.3	5.1	6.1	6.5	6.6	6.7	6.2	8.2	8.5
Physical sciences	5.3	4.0	5.0	5.7	5.8	6.9	6.6	7.1	8.1
Astronomy	3.2	1.4	6.1	10.0	18.5	13.0	17.0	15.7	9.8
Chemistry	5.1	4.8	4.9	6.3	5.8	8.1	4.9	6.1	8.1
Physics	6.1	3.5	6.2	5.5	5.6	6.4	8.7	8.3	9.1
Other	3.4	1.4	1.5	1.8	3.8	1.5	4.1	2.4	0.6
Psychology	4.8	4.1	4.5	6.6	6.7	7.7	7.7	7.5	8.1
Social sciences	6.1	6.3	5.6	6.8	7.6	8.1	8.8	9.3	10.7
Anthropology	6.8	5.6	4.8	6.4	6.6	8.3	8.6	7.3	10.2

TABLE E-4. Racial/ethnic distribution of S&E master's degrees awarded to U.S. citizens and permanent residents, by field: 1996–2005

(Percent)

Field and race/ethnicity	1996	1997	1998	2000	2001	2002	2003	2004	2005
Area and ethnic studies	12.2	6.7	6.3	8.5	13.4	12.5	11.9	11.9	14.7
Economics	6.7	5.4	5.8	8.0	7.9	8.6	15.0	16.9	15.5
History of science	10.0	12.5	0.0	9.1	0.0	15.2	11.1	9.1	8.7
Linguistics	4.0	7.2	4.5	5.3	6.3	7.7	9.1	10.1	9.5
Political science and public administration	6.0	6.8	6.4	7.4	7.7	8.5	8.8	9.4	10.6
Sociology	3.3	3.1	3.0	2.2	3.3	3.1	3.7	3.7	6.7
Other	4.8	6.2	4.0	6.5	7.4	7.1	7.3	7.8	8.7
Engineering	5.8	5.4	5.1	5.9	6.7	7.8	8.5	7.8	9.1
Aerospace engineering	13.2	5.2	5.1	2.7	6.4	4.8	7.6	7.9	6.3
Chemical engineering	4.5	3.9	3.8	4.2	5.6	8.0	7.0	6.1	10.8
Civil engineering	4.4	4.3	4.0	4.6	5.4	6.1	7.0	6.6	7.0
Electrical engineering	6.4	6.0	5.9	6.8	8.1	10.6	9.9	8.6	9.9
Industrial engineering	6.1	8.3	7.5	9.2	8.2	7.8	8.5	9.0	9.7
Materials engineering	4.4	4.2	2.9	4.6	6.6	4.9	6.6	5.3	6.0
Mechanical engineering	5.9	4.2	4.3	5.4	5.3	6.8	6.9	6.8	8.3
Other	5.5	5.9	4.9	5.3	6.6	7.1	9.5	8.1	10.4
Non-S&E	5.2	5.4	5.2	6.5	7.7	8.8	9.8	10.9	9.9

NOTES: Race/ethnicity breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial/ethnic groups. Data are not available for 1999.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1996–2005.