

TABLE E-4. Racial/ethnic distribution of S&E master's degrees awarded to U.S. citizens and permanent residents, by field: 1995–2004
(Percent)

Field and race/ethnicity	1995	1996	1997	1998	2000	2001	2002	2003	2004
White									
All fields	79.1	78.4	77.6	76.9	74.2	72.4	71.1	69.6	68.0
S&E	75.8	75.2	74.5	73.4	70.3	68.2	67.6	66.0	65.3
Sciences	76.7	76.1	75.1	74.1	70.6	68.4	67.7	66.1	65.6
Agricultural sciences	83.8	86.8	85.9	86.6	85.7	84.8	83.4	83.9	82.6
Biological sciences	79.0	78.0	77.5	77.0	75.0	73.5	73.9	73.0	70.6
Computer sciences	65.3	64.9	63.0	61.5	55.7	52.8	53.3	50.4	51.5
Earth, atmospheric, and ocean sciences	85.1	86.8	90.5	90.8	90.1	87.6	88.2	87.5	87.2
Atmospheric sciences	88.1	90.8	89.5	87.5	94.1	85.3	86.7	91.4	88.9
Earth sciences	87.3	88.7	91.0	91.5	89.5	88.8	88.9	87.4	87.1
Ocean sciences	61.5	64.6	86.5	89.4	91.4	77.3	82.8	84.7	86.6
Mathematics and statistics	78.9	76.8	76.9	75.8	75.8	73.9	73.6	74.0	71.5
Physical sciences	77.6	78.2	76.4	75.5	74.8	75.0	73.2	73.5	76.0
Astronomy	81.9	84.0	90.5	89.0	81.3	72.3	76.6	71.3	74.5
Chemistry	73.7	74.9	71.2	71.1	71.0	71.5	69.5	69.8	73.1
Physics	80.8	80.0	80.5	78.9	76.9	77.6	73.9	75.4	78.2
Other	84.7	87.7	89.6	83.7	87.8	87.8	86.7	86.3	87.3
Psychology	81.9	79.8	78.9	77.4	72.8	70.6	68.7	67.8	67.4
Social sciences	74.7	74.3	72.6	72.1	69.0	66.8	66.3	64.9	64.1
Anthropology	80.8	82.5	84.5	82.9	79.4	79.7	76.8	77.4	77.5
Area and ethnic studies	67.6	67.1	71.0	71.5	69.1	61.7	60.6	56.9	61.4
Economics	74.4	74.4	71.9	74.1	69.4	71.7	69.4	61.9	62.1
History of science	84.6	90.0	75.0	100.0	90.9	85.7	69.7	72.2	77.3
Linguistics	76.9	79.1	77.0	76.0	77.6	72.1	76.9	73.1	72.9
Political science and public administration	74.2	73.8	71.1	69.7	66.8	64.0	63.9	63.0	62.3
Sociology	72.2	70.4	71.5	71.8	68.0	67.5	67.0	67.5	65.6
Other	80.4	79.3	76.4	76.7	74.1	72.9	73.0	71.8	67.8
Engineering	73.1	72.3	72.5	71.2	69.3	67.4	67.3	65.7	64.4
Aerospace engineering	73.3	74.1	78.2	79.4	83.8	76.9	78.5	77.6	76.7
Chemical engineering	72.1	73.8	72.3	68.8	69.5	67.1	65.7	65.6	64.6
Civil engineering	78.5	77.8	77.6	78.3	76.7	76.6	74.5	74.3	75.1
Electrical engineering	64.6	63.4	64.2	60.9	58.5	56.7	57.2	55.3	53.3
Industrial engineering	71.6	72.4	72.6	70.2	66.1	64.8	64.4	62.5	60.0
Materials engineering	83.6	79.0	74.2	79.6	77.2	72.1	74.4	74.0	72.9
Mechanical engineering	76.1	75.5	75.6	74.9	73.7	70.1	71.5	72.3	70.0
Other	77.4	75.5	74.0	74.1	72.6	71.1	71.1	67.5	68.2
Non-S&E	80.0	79.2	78.4	77.7	75.0	73.3	71.8	70.4	68.5
Asian/Pacific Islander									
All fields	4.5	4.8	4.8	5.3	5.3	5.4	5.4	5.5	5.6
S&E	8.3	8.6	8.6	9.2	9.9	9.8	9.5	10.1	10.3
Sciences	6.4	6.8	7.0	7.6	8.4	8.3	8.2	8.7	8.6
Agricultural sciences	3.3	3.3	3.2	2.5	2.8	3.0	3.6	2.9	3.3
Biological sciences	9.2	10.0	10.1	10.8	10.7	9.6	9.7	11.0	11.7
Computer sciences	19.0	19.1	20.3	22.7	25.5	23.9	22.5	22.5	21.1
Earth, atmospheric, and ocean sciences	4.2	3.0	2.5	2.5	1.9	2.4	3.1	2.2	3.0
Atmospheric sciences	4.0	3.7	2.8	7.2	3.4	4.3	6.2	3.1	3.7
Earth sciences	3.9	2.9	2.0	1.5	1.8	1.7	2.5	1.7	2.6
Ocean sciences	6.4	2.7	7.3	4.3	1.4	6.8	5.4	5.4	5.0
Mathematics and statistics	8.1	8.1	9.1	8.6	8.2	10.0	10.1	10.1	10.9
Physical sciences	8.6	9.3	10.2	9.3	10.1	8.8	8.7	9.2	7.4
Astronomy	8.5	7.4	2.7	4.9	6.3	7.7	5.2	7.4	5.9

TABLE E-4. Racial/ethnic distribution of S&E master's degrees awarded to U.S. citizens and permanent residents, by field: 1995–2004
(Percent)

Field and race/ethnicity	1995	1996	1997	1998	2000	2001	2002	2003	2004
Chemistry	10.0	12.3	13.1	11.9	13.1	11.0	9.9	12.1	9.2
Physics	8.0	7.1	7.8	6.8	7.0	6.9	8.0	6.7	5.9
Other	1.8	1.3	2.7	4.4	4.5	2.5	6.7	3.7	1.2
Psychology	2.3	2.6	2.8	3.0	3.6	3.6	3.9	3.8	3.9
Social sciences	4.2	4.7	4.8	5.0	5.1	5.2	5.1	5.6	5.7
Anthropology	2.6	2.8	2.5	3.6	4.5	3.9	3.7	4.4	4.3
Area and ethnic studies	5.4	5.8	6.5	6.2	6.0	7.8	7.2	8.0	6.8
Economics	8.8	8.9	10.6	8.8	10.9	9.6	10.0	11.7	10.5
History of science	0.0	0.0	0.0	0.0	0.0	0.0	6.1	11.1	13.6
Linguistics	11.4	9.5	7.8	9.8	11.1	10.9	7.4	9.1	9.3
Political science and public administration	3.6	4.3	4.2	4.8	4.6	4.9	4.6	5.1	5.4
Sociology	4.6	3.9	4.4	4.4	3.6	4.0	4.9	5.4	5.8
Other	2.5	3.3	4.2	3.4	4.4	3.8	3.7	3.5	3.8
Engineering	13.6	14.0	13.5	14.4	15.0	15.6	14.2	15.0	16.4
Aerospace engineering	7.2	8.3	9.5	9.4	7.7	10.3	7.3	9.4	8.8
Chemical engineering	14.6	12.0	11.6	15.8	15.8	16.5	14.5	14.6	19.2
Civil engineering	9.9	10.4	10.5	9.3	9.3	7.9	7.9	9.0	9.1
Electrical engineering	20.8	21.9	21.4	24.3	25.1	25.9	22.8	23.8	26.9
Industrial engineering	11.8	9.6	8.2	9.0	10.3	10.6	9.7	13.2	12.5
Materials engineering	7.9	10.2	13.1	11.2	11.2	13.4	11.1	13.9	12.7
Mechanical engineering	11.7	11.7	11.3	11.5	12.0	16.1	14.2	11.7	13.2
Other	10.5	12.6	12.1	12.7	12.8	12.6	12.6	12.4	12.7
Non-S&E	3.6	3.8	3.9	4.3	4.4	4.5	4.6	4.6	4.6
Black									
All fields	6.5	6.8	7.3	7.5	8.3	8.6	8.7	9.0	9.2
S&E	5.8	6.0	6.7	6.9	7.7	8.5	8.6	9.0	9.0
Sciences	6.7	6.8	7.6	7.7	8.8	9.7	9.6	10.1	10.2
Agricultural sciences	2.5	2.6	2.9	2.9	2.5	2.9	2.5	3.1	2.8
Biological sciences	3.5	3.8	4.2	3.5	4.0	5.6	5.2	5.1	5.9
Computer sciences	5.6	6.5	6.3	6.1	7.3	7.6	7.4	8.7	8.2
Earth, atmospheric, and ocean sciences	1.3	0.9	1.0	1.2	0.6	1.8	1.5	1.4	1.7
Atmospheric sciences	1.3	0.0	1.4	1.3	0.0	3.4	1.8	1.6	2.2
Earth sciences	1.4	0.9	1.0	1.3	0.6	1.5	1.5	1.2	1.5
Ocean sciences	0.0	1.8	0.0	0.0	1.4	2.3	1.1	2.7	2.5
Mathematics and statistics	5.0	5.3	5.9	5.7	4.5	5.5	5.3	4.5	4.6
Physical sciences	4.8	3.6	4.8	4.9	4.9	5.2	5.0	4.5	4.5
Astronomy	4.3	1.1	2.7	0.0	0.0	0.0	2.6	1.1	1.0
Chemistry	5.6	4.4	5.6	5.5	5.0	5.9	5.9	5.9	6.3
Physics	3.6	3.0	4.2	3.9	5.8	5.1	4.5	3.8	2.7
Other	5.9	3.0	3.2	6.7	3.6	3.0	3.0	1.5	3.0
Psychology	6.3	6.9	8.0	8.0	10.2	11.5	12.0	13.0	13.1
Social sciences	9.5	9.4	10.6	11.1	12.4	13.2	13.1	13.3	13.5
Anthropology	4.0	2.9	2.8	2.6	3.8	3.7	3.5	3.4	3.1
Area and ethnic studies	7.2	6.6	7.8	7.8	7.0	6.7	8.5	9.6	9.3
Economics	6.1	5.9	6.6	6.5	5.9	5.6	6.4	5.0	4.7
History of science	7.7	0.0	6.3	0.0	0.0	4.8	6.1	0.0	0.0
Linguistics	2.9	1.6	2.5	2.9	1.1	3.6	1.4	2.0	0.8
Political science and public administration	10.5	10.3	12.0	13.0	14.3	16.0	15.6	15.6	15.3
Sociology	14.2	15.8	15.6	13.6	18.6	16.9	16.1	15.7	16.4
Other	8.3	8.8	9.4	10.3	10.2	10.1	10.9	12.5	14.7
Engineering	3.5	3.6	3.9	4.2	4.1	4.5	4.8	5.1	4.7
Aerospace engineering	2.1	1.7	2.0	1.9	2.1	2.8	3.5	1.8	1.9

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(Percent)

Field and race/ethnicity	1995	1996	1997	1998	2000	2001	2002	2003	2004
Chemical engineering	4.1	4.0	4.7	5.5	4.7	4.7	4.7	6.5	4.4
Civil engineering	2.8	3.2	3.0	3.6	3.1	3.7	3.9	3.6	2.7
Electrical engineering	4.2	3.8	3.9	4.4	4.3	4.7	4.7	5.1	4.5
Industrial engineering	4.3	5.5	4.8	5.5	4.8	6.0	7.3	7.6	7.5
Materials engineering	2.2	1.8	3.8	2.9	3.1	2.2	4.9	3.7	5.0
Mechanical engineering	3.1	3.0	4.2	4.0	4.1	4.0	3.2	3.5	3.2
Other	3.4	3.5	4.3	4.0	4.8	4.8	5.3	5.9	6.1
Non-S&E	6.7	7.0	7.4	7.7	8.4	8.7	8.8	9.0	9.3
Hispanic									
All fields	4.0	4.3	4.4	4.6	5.2	5.5	5.5	5.7	6.1
S&E	4.1	4.2	4.5	4.9	5.3	5.7	5.7	5.8	6.1
Sciences	4.2	4.3	4.5	4.9	5.3	5.8	5.8	5.9	6.1
Agricultural sciences	3.3	2.8	3.2	3.6	4.0	3.7	4.9	4.0	4.8
Biological sciences	3.6	3.7	3.8	3.5	4.8	5.5	4.8	4.6	5.0
Computer sciences	3.1	2.8	3.2	3.1	3.6	5.1	3.7	5.5	5.5
Earth, atmospheric, and ocean sciences	2.8	2.2	1.9	1.6	2.6	2.4	2.9	2.2	2.7
Atmospheric sciences	4.0	0.6	2.1	1.3	1.7	0.0	0.9	1.6	1.5
Earth sciences	3.0	2.6	1.9	1.7	2.7	2.5	3.1	2.3	3.0
Ocean sciences	0.0	0.9	2.1	1.1	2.9	3.4	3.2	1.8	1.7
Mathematics and statistics	2.6	3.2	2.4	3.4	4.6	3.5	3.9	4.9	4.5
Physical sciences	3.4	3.5	4.2	4.8	4.0	4.8	5.6	5.7	4.8
Astronomy	2.1	4.3	2.7	0.0	2.5	1.5	2.6	2.1	2.9
Chemistry	3.7	3.1	4.8	5.8	4.3	5.3	5.7	6.9	5.1
Physics	3.2	3.6	3.8	4.0	4.5	4.6	6.8	4.8	4.4
Other	2.9	4.7	2.7	3.7	1.8	3.0	2.2	4.1	6.0
Psychology	4.9	5.3	5.4	6.2	6.3	6.8	7.0	6.9	7.4
Social sciences	4.8	4.9	5.1	5.7	6.0	6.4	6.6	6.6	6.6
Anthropology	4.7	3.7	3.6	4.7	4.3	4.5	6.4	5.0	5.8
Area and ethnic studies	6.3	6.9	6.5	7.2	8.2	8.8	9.5	11.0	8.6
Economics	3.4	4.0	4.9	4.4	5.5	4.5	4.8	5.9	5.4
History of science	0.0	0.0	6.3	0.0	0.0	4.8	0.0	5.6	0.0
Linguistics	4.1	5.3	5.1	6.4	4.7	6.9	5.4	6.5	6.5
Political science and public administration	5.1	5.1	5.5	5.8	6.3	6.7	6.7	6.8	6.8
Sociology	5.3	5.3	4.4	6.0	6.0	6.7	7.9	6.7	7.6
Other	3.3	3.4	3.4	5.0	4.1	5.0	4.9	4.5	5.2
Engineering	3.8	4.0	4.4	4.8	5.4	5.4	5.5	5.4	6.2
Aerospace engineering	3.6	1.7	4.5	4.3	3.8	3.1	4.8	3.1	3.6
Chemical engineering	4.4	5.2	6.8	5.9	5.4	5.5	6.8	5.9	5.7
Civil engineering	4.1	4.0	4.3	4.5	5.9	6.0	7.2	5.7	5.9
Electrical engineering	3.7	4.2	4.4	4.3	5.0	4.3	4.5	5.5	6.4
Industrial engineering	5.1	6.4	5.8	7.5	9.2	9.6	10.4	7.8	10.1
Materials engineering	2.1	4.2	4.7	3.4	3.1	5.4	4.1	1.6	3.8
Mechanical engineering	3.4	3.5	4.3	4.8	4.5	4.2	3.9	5.2	6.0
Other	3.3	2.7	3.3	3.9	4.1	4.6	3.6	4.2	4.6
Non-S&E	3.9	4.3	4.4	4.5	5.2	5.4	5.5	5.7	6.1
American Indian/Alaskan Native									
All fields	0.4	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6
S&E	0.4	0.4	0.5	0.5	0.5	0.7	0.6	0.6	0.6
Sciences	0.5	0.5	0.6	0.6	0.6	0.7	0.6	0.6	0.7
Agricultural sciences	0.4	0.4	0.6	0.7	0.7	0.5	0.7	0.6	0.5
Biological sciences	0.4	0.3	0.4	0.4	0.5	0.5	0.6	0.5	0.5

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(Percent)

Field and race/ethnicity	1995	1996	1997	1998	2000	2001	2002	2003	2004
Computer sciences	0.2	0.4	0.4	0.2	0.4	0.8	0.4	0.4	0.5
Earth, atmospheric, and ocean sciences	0.3	0.4	0.4	0.8	0.8	0.9	0.3	0.7	0.5
Atmospheric sciences	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Earth sciences	0.4	0.4	0.5	0.8	0.9	0.8	0.4	0.9	0.7
Ocean sciences	0.0	0.9	0.0	2.1	0.0	3.4	0.0	0.0	0.0
Mathematics and statistics	0.4	0.2	0.5	0.4	0.4	0.4	0.4	0.4	0.3
Physical sciences	0.5	0.2	0.4	0.5	0.4	0.4	0.6	0.5	0.3
Astronomy	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0
Chemistry	0.8	0.2	0.5	0.8	0.4	0.5	0.9	0.4	0.2
Physics	0.3	0.2	0.2	0.2	0.4	0.2	0.5	0.6	0.5
Other	0.0	0.0	0.5	0.0	0.5	0.0	0.0	0.4	0.0
Psychology	0.6	0.6	0.7	0.9	0.5	0.8	0.7	0.8	0.7
Social sciences	0.5	0.6	0.6	0.6	0.7	0.9	0.8	0.8	0.9
Anthropology	1.7	1.3	1.0	1.4	1.6	1.7	1.3	1.1	1.9
Area and ethnic studies	0.7	1.5	1.5	1.1	1.2	1.6	1.6	2.6	2.0
Economics	0.3	0.2	0.5	0.3	0.2	0.6	0.8	0.4	0.4
History of science	0.0	0.0	0.0	0.0	0.0	4.8	3.0	0.0	0.0
Linguistics	0.0	0.5	0.4	0.5	0.3	0.3	1.1	0.3	0.5
Political science and public administration	0.4	0.4	0.5	0.4	0.6	0.6	0.7	0.6	0.9
Sociology	0.9	1.2	1.0	1.2	1.6	1.6	1.0	1.0	0.9
Other	0.6	0.3	0.4	0.6	0.7	0.8	0.5	0.3	0.6
Engineering	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.5
Aerospace engineering	0.3	0.9	0.5	0.0	0.0	0.6	1.0	0.4	1.0
Chemical engineering	0.4	0.5	0.7	0.1	0.4	0.6	0.3	0.3	0.0
Civil engineering	0.3	0.2	0.3	0.4	0.5	0.4	0.4	0.5	0.6
Electrical engineering	0.2	0.3	0.2	0.2	0.3	0.3	0.3	0.4	0.2
Industrial engineering	0.3	0.1	0.3	0.3	0.4	0.8	0.4	0.4	0.8
Materials engineering	0.2	0.4	0.0	0.0	0.8	0.2	0.5	0.3	0.2
Mechanical engineering	0.2	0.4	0.4	0.5	0.3	0.3	0.3	0.4	0.8
Other	0.2	0.2	0.4	0.3	0.5	0.4	0.3	0.5	0.3
Non-S&E	0.4	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6
Other or unknown race/ethnicity									
All fields	5.4	5.3	5.4	5.2	6.4	7.6	8.7	9.6	10.5
S&E	5.6	5.6	5.3	5.2	6.3	7.1	8.0	8.5	8.6
Sciences	5.5	5.5	5.2	5.2	6.4	7.2	8.1	8.5	8.8
Agricultural sciences	6.6	4.1	4.2	3.7	4.3	5.0	4.9	5.5	6.0
Biological sciences	4.2	4.3	4.0	4.8	5.1	5.3	5.8	5.9	6.2
Computer sciences	6.7	6.4	6.8	6.4	7.6	9.8	12.7	12.5	13.2
Earth, atmospheric, and ocean sciences	6.3	6.8	3.7	3.0	4.0	5.0	4.0	6.0	4.9
Atmospheric sciences	2.6	4.9	4.2	2.6	0.8	6.9	4.4	2.3	3.7
Earth sciences	3.9	4.5	3.5	3.1	4.5	4.7	3.6	6.5	5.1
Ocean sciences	32.1	29.2	4.2	3.2	2.9	6.8	7.5	5.4	4.2
Mathematics and statistics	5.1	6.3	5.1	6.1	6.5	6.6	6.7	6.2	8.2
Physical sciences	5.1	5.3	4.0	5.0	5.7	5.8	6.9	6.6	7.1
Astronomy	3.2	3.2	1.4	6.1	10.0	18.5	13.0	17.0	15.7
Chemistry	6.1	5.1	4.8	4.9	6.3	5.8	8.1	4.9	6.1
Physics	4.1	6.1	3.5	6.2	5.5	5.6	6.4	8.7	8.3
Other	4.7	3.4	1.4	1.5	1.8	3.8	1.5	4.1	2.4
Psychology	3.9	4.8	4.1	4.5	6.6	6.7	7.7	7.7	7.5
Social sciences	6.3	6.1	6.3	5.6	6.8	7.6	8.1	8.8	9.2
Anthropology	6.3	6.8	5.6	4.8	6.4	6.6	8.3	8.6	7.3

TABLE E-4. Racial/ethnic distribution of S&E master's degrees awarded to U.S. citizens and permanent residents, by field: 1995–2004
(Percent)

Field and race/ethnicity	1995	1996	1997	1998	2000	2001	2002	2003	2004
Area and ethnic studies	12.8	12.2	6.7	6.3	8.5	13.4	12.5	11.9	11.9
Economics	7.0	6.7	5.4	5.8	8.0	7.9	8.6	15.0	16.9
History of science	7.7	10.0	12.5	0.0	9.1	0.0	15.2	11.1	9.1
Linguistics	4.6	4.0	7.2	4.5	5.3	6.3	7.7	9.1	10.1
Political science and public administration	6.2	6.0	6.8	6.4	7.4	7.7	8.5	8.9	9.3
Sociology	2.9	3.3	3.1	3.0	2.2	3.3	3.1	3.7	3.7
Other	5.0	4.8	6.2	4.0	6.5	7.4	7.1	7.3	7.8
Engineering	5.9	5.8	5.4	5.1	5.9	6.7	7.8	8.5	7.8
Aerospace engineering	13.5	13.2	5.2	5.1	2.7	6.4	4.8	7.6	7.9
Chemical engineering	4.4	4.5	3.9	3.8	4.2	5.6	8.0	7.0	6.1
Civil engineering	4.4	4.4	4.3	4.0	4.6	5.4	6.1	7.0	6.6
Electrical engineering	6.5	6.4	6.0	5.9	6.8	8.1	10.6	9.9	8.6
Industrial engineering	7.0	6.1	8.3	7.5	9.2	8.2	7.8	8.5	9.0
Materials engineering	4.1	4.4	4.2	2.9	4.6	6.6	4.9	6.6	5.3
Mechanical engineering	5.4	5.9	4.2	4.3	5.4	5.3	6.8	6.9	6.8
Other	5.3	5.5	5.9	4.9	5.3	6.6	7.1	9.5	8.1
Non-S&E	5.3	5.2	5.4	5.2	6.5	7.7	8.8	9.8	10.9

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, 1995–2004.