

TABLE E-4. Racial/ethnic distribution of S&E master's degrees awarded to U.S. citizens and permanent residents, by field: 1998–2007

Field and race/ethnicity	1998	2000	2001	2002	2003	2004	2005	2006	2007
<i>White</i>									
All fields	76.9	74.2	72.3	71.0	69.5	67.7	67.6	66.8	65.5
S&E	73.4	70.2	67.9	67.4	66.1	65.3	64.7	64.5	63.8
Sciences	74.1	70.5	68.0	67.5	66.2	65.5	64.9	64.7	64.2
Agricultural sciences	86.6	85.7	84.8	83.4	84.2	82.6	82.0	81.4	80.5
Biological sciences	77.1	75.0	73.5	73.8	73.0	70.7	70.6	70.6	67.9
Computer sciences	61.4	55.5	51.2	52.2	49.7	51.1	53.0	54.5	54.5
Earth, atmospheric, and ocean sciences	90.8	90.1	87.6	88.2	87.5	87.2	86.1	85.0	87.0
Atmospheric sciences	87.5	94.1	85.3	86.7	91.4	88.9	89.8	87.6	88.6
Earth sciences	91.5	89.5	88.8	88.9	87.4	87.1	85.1	84.5	87.0
Ocean sciences	89.4	91.4	77.3	82.8	84.7	86.6	92.4	87.0	84.3
Mathematics and statistics	75.8	75.8	73.9	73.0	73.5	71.5	70.3	68.6	67.0
Physical sciences	75.5	74.8	75.0	73.2	73.5	76.0	73.5	73.4	70.9
Astronomy	89.0	81.3	72.3	76.6	71.3	74.5	80.3	82.9	79.8
Chemistry	71.1	71.0	71.5	69.5	69.8	73.1	68.7	69.0	68.2
Physics	79.0	76.9	77.6	73.9	75.4	78.2	75.9	75.1	71.4
Other	83.7	87.8	87.8	86.7	87.6	87.3	88.6	91.0	86.5
Psychology	77.4	72.9	70.7	68.9	68.3	67.5	65.8	66.3	64.9
Social sciences	72.1	69.0	66.8	66.4	65.0	64.1	62.6	61.2	61.9
Anthropology	82.9	79.4	79.7	76.8	77.4	77.5	75.3	73.9	73.1
Area and ethnic studies	71.5	69.4	61.7	61.1	57.5	61.5	56.7	53.4	57.3
Economics	74.1	69.4	71.7	69.4	61.9	62.1	61.8	60.6	63.5
History of science	100.0	90.9	85.7	69.7	72.2	77.3	87.0	90.6	76.9
Linguistics	76.0	77.6	72.1	76.9	73.1	72.9	71.1	66.2	69.8
Political science and public administration	69.7	66.8	64.0	63.9	63.1	62.3	61.0	59.8	59.9
Sociology	71.8	68.0	67.5	67.0	67.5	65.6	63.6	64.3	64.6
Other	76.7	74.1	72.9	73.0	71.8	67.9	67.4	66.0	66.7
Engineering	71.1	69.2	67.3	67.2	65.8	64.3	64.1	63.7	62.0
Aerospace engineering	79.0	83.8	76.9	78.5	78.4	76.7	76.0	74.1	73.1
Chemical engineering	68.8	69.5	67.1	65.7	65.7	64.6	61.2	65.5	63.0
Civil engineering	78.3	76.7	76.6	74.5	74.3	75.1	72.9	74.2	71.6
Electrical engineering	60.6	58.5	56.5	57.1	55.0	53.1	53.4	52.5	50.9
Industrial engineering	70.2	66.1	64.4	64.1	62.5	60.1	56.3	57.4	56.3
Materials engineering	79.6	77.2	72.2	74.2	74.1	72.9	69.6	70.8	71.9
Mechanical engineering	74.9	73.7	70.1	71.5	72.5	70.0	72.2	69.8	70.3
Other	74.1	72.6	71.0	70.9	68.3	68.2	67.8	65.6	62.7
Non-S&E	77.7	75.0	73.2	71.7	70.3	68.2	68.3	67.3	65.8
<i>Asian/Pacific Islander</i>									
All fields	5.3	5.4	5.4	5.5	5.5	5.6	5.8	5.8	5.9
S&E	9.2	9.8	9.8	9.5	10.0	10.3	10.2	9.7	9.9
Sciences	7.6	8.4	8.2	8.2	8.6	8.6	8.5	7.8	7.9
Agricultural sciences	2.5	2.8	3.0	3.6	2.9	3.1	3.1	2.4	3.6
Biological sciences	10.8	10.7	9.6	9.7	11.0	11.7	11.5	11.0	11.8
Computer sciences	22.7	24.7	22.8	22.0	22.1	21.0	20.4	17.7	17.5
Earth, atmospheric, and ocean sciences	2.5	1.9	2.4	3.1	2.2	3.0	2.2	2.1	1.8
Atmospheric sciences	7.2	3.4	4.3	6.2	3.1	3.7	2.4	3.1	3.2
Earth sciences	1.5	1.8	1.7	2.5	1.7	2.6	2.3	2.0	1.4
Ocean sciences	4.3	1.4	6.8	5.4	5.4	5.0	1.1	1.9	3.9
Mathematics and statistics	8.6	8.2	10.0	10.0	10.0	10.9	11.5	12.8	14.0
Physical sciences	9.4	10.1	8.8	8.7	9.3	7.4	9.0	7.7	9.8
Astronomy	4.9	6.3	7.7	5.2	7.4	5.9	5.7	1.7	3.5

TABLE E-4. Racial/ethnic distribution of S&E master's degrees awarded to U.S. citizens and permanent residents, by field: 1998–2007

(Percent)

Field and race/ethnicity	1998	2000	2001	2002	2003	2004	2005	2006	2007
Chemistry	11.9	13.1	11.0	9.9	12.1	9.2	11.9	9.8	12.4
Physics	7.0	7.0	6.9	8.0	6.7	5.9	6.6	6.6	8.2
Other	4.4	4.5	2.5	6.7	4.1	1.2	4.5	1.8	2.8
Psychology	3.0	3.5	3.6	3.9	3.7	3.9	3.8	3.9	4.1
Social sciences	5.0	5.1	5.2	5.1	5.6	5.6	6.0	5.8	5.7
Anthropology	3.6	4.5	3.9	3.7	4.4	4.3	4.3	3.7	4.6
Area and ethnic studies	6.2	6.1	7.9	7.2	8.1	6.8	7.8	7.2	7.6
Economics	8.8	10.9	9.6	10.0	11.7	10.5	10.4	11.6	10.5
History of science	0.0	0.0	0.0	6.1	11.1	13.6	4.3	3.1	3.8
Linguistics	9.8	11.1	10.9	7.4	9.1	9.3	9.7	9.6	7.9
Political science and public administration	4.8	4.6	4.9	4.6	5.0	5.3	5.7	5.5	5.4
Sociology	4.4	3.6	4.0	4.9	5.4	5.8	5.8	5.0	4.4
Other	3.4	4.4	3.8	3.7	3.5	3.8	4.3	4.0	4.4
Engineering	14.5	15.0	15.5	14.2	15.1	16.5	16.3	16.8	17.4
Aerospace engineering	9.8	7.7	10.3	7.3	9.4	8.8	8.5	9.4	10.1
Chemical engineering	15.8	15.8	16.5	14.5	14.6	19.2	14.3	15.0	14.9
Civil engineering	9.3	9.3	7.9	7.8	8.9	9.1	9.7	9.0	10.3
Electrical engineering	24.5	25.1	25.8	22.9	24.0	27.1	26.5	26.8	28.5
Industrial engineering	9.0	10.3	10.7	9.7	13.1	12.5	15.2	15.2	14.5
Materials engineering	11.2	11.2	13.5	11.3	13.8	12.7	14.2	14.6	14.3
Mechanical engineering	11.5	12.0	16.1	14.2	11.8	13.2	11.5	12.8	12.1
Other	12.7	12.8	12.6	12.5	12.6	12.7	13.7	15.9	16.2
Non-S&E	4.4	4.4	4.5	4.7	4.6	4.7	4.9	4.9	5.1
Black									
All fields	7.5	8.3	8.6	8.8	9.0	9.3	9.7	10.0	10.3
S&E	6.9	7.8	8.6	8.6	9.1	9.0	8.9	8.9	9.1
Sciences	7.7	8.8	9.7	9.7	10.2	10.2	10.1	10.0	10.3
Agricultural sciences	2.9	2.5	2.9	2.5	3.0	2.9	2.4	2.7	3.2
Biological sciences	3.5	4.0	5.6	5.2	5.1	5.9	5.5	5.5	5.9
Computer sciences	6.1	7.8	7.8	8.1	9.4	8.3	8.1	8.1	9.0
Earth, atmospheric, and ocean sciences	1.2	0.6	1.8	1.5	1.4	1.7	1.2	2.1	1.6
Atmospheric sciences	1.3	0.0	3.4	1.8	1.6	2.2	1.8	4.3	1.9
Earth sciences	1.3	0.6	1.5	1.5	1.2	1.5	1.1	1.8	1.6
Ocean sciences	0.0	1.4	2.3	1.1	2.7	2.5	1.1	1.9	2.0
Mathematics and statistics	5.7	4.5	5.5	5.3	4.4	4.6	4.8	5.0	4.8
Physical sciences	4.9	4.9	5.2	5.0	4.5	4.5	3.7	5.3	4.3
Astronomy	0.0	0.0	0.0	2.6	1.1	1.0	1.6	2.6	0.0
Chemistry	5.5	5.0	5.9	5.9	5.9	6.3	4.3	6.7	5.2
Physics	4.0	5.8	5.1	4.5	3.8	2.7	3.5	4.3	3.7
Other	6.7	3.6	3.0	3.0	1.2	3.0	2.8	3.0	4.3
Psychology	8.1	10.1	11.5	12.0	12.9	12.9	13.5	12.0	12.6
Social sciences	11.1	12.4	13.2	13.1	13.4	13.5	13.0	13.4	13.3
Anthropology	2.6	3.8	3.7	3.5	3.4	3.1	2.9	3.0	3.7
Area and ethnic studies	7.8	7.1	6.7	8.6	10.1	9.3	9.5	7.7	9.9
Economics	6.5	5.9	5.6	6.4	5.0	4.7	5.4	5.6	5.5
History of science	0.0	0.0	4.8	6.1	0.0	0.0	0.0	3.1	7.7
Linguistics	2.9	1.1	3.6	1.4	2.0	0.8	2.1	2.9	3.5
Political science and public administration	13.0	14.3	16.0	15.5	15.6	15.3	15.0	15.6	15.3
Sociology	13.6	18.6	16.9	16.1	15.7	16.4	15.2	14.3	13.5
Other	10.3	10.2	10.1	10.9	12.5	14.7	13.5	14.6	13.8
Engineering	4.2	4.1	4.5	4.8	5.1	4.7	4.6	4.7	4.8
Aerospace engineering	2.0	2.1	2.8	3.5	1.7	1.9	2.9	3.2	3.6

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(Percent)									
Field and race/ethnicity	1998	2000	2001	2002	2003	2004	2005	2006	2007
Chemical engineering	5.5	4.7	4.7	4.7	6.6	4.4	7.6	5.0	5.6
Civil engineering	3.6	3.1	3.7	3.9	3.6	2.7	3.2	2.9	3.6
Electrical engineering	4.5	4.3	4.8	4.7	5.2	4.5	4.4	4.5	5.0
Industrial engineering	5.5	4.8	6.1	7.2	7.6	7.5	7.0	8.1	7.0
Materials engineering	2.9	3.1	2.2	5.0	3.7	5.0	4.2	2.8	2.0
Mechanical engineering	4.0	4.1	4.0	3.2	3.5	3.2	2.9	3.1	3.0
Other	4.0	4.8	4.8	5.3	6.0	6.1	5.4	5.8	5.9
Non-S&E	7.7	8.4	8.7	8.8	9.0	9.3	9.9	10.2	10.5
Hispanic									
All fields	4.6	5.2	5.5	5.5	5.7	6.1	6.4	6.5	6.7
S&E	4.9	5.3	5.7	5.7	5.8	6.1	6.2	6.3	6.6
Sciences	4.9	5.2	5.8	5.7	5.9	6.1	6.2	6.4	6.7
Agricultural sciences	3.6	4.0	3.7	4.9	3.8	4.8	5.2	5.5	4.9
Biological sciences	3.5	4.8	5.5	4.8	4.6	5.1	5.2	5.0	5.6
Computer sciences	3.2	3.7	5.2	3.8	5.5	5.4	4.5	4.8	4.9
Earth, atmospheric, and ocean sciences	1.6	2.6	2.4	2.9	2.2	2.7	3.4	3.6	3.0
Atmospheric sciences	1.3	1.7	0.0	0.9	1.6	1.5	1.8	1.2	3.2
Earth sciences	1.7	2.7	2.5	3.1	2.3	3.0	3.8	4.0	2.9
Ocean sciences	1.1	2.9	3.4	3.2	1.8	1.7	1.1	1.9	3.9
Mathematics and statistics	3.4	4.6	3.5	3.8	4.9	4.5	4.6	5.4	5.5
Physical sciences	4.9	4.0	4.8	5.6	5.8	4.8	5.2	5.9	5.1
Astronomy	0.0	2.5	1.5	2.6	2.1	2.9	1.6	5.1	2.6
Chemistry	5.8	4.3	5.3	5.7	6.9	5.1	6.5	7.7	5.5
Physics	4.1	4.5	4.6	6.8	4.8	4.4	4.4	4.6	5.2
Other	3.7	1.8	3.0	2.2	4.6	6.0	2.8	0.6	2.1
Psychology	6.2	6.3	6.8	7.0	6.9	7.3	7.7	8.0	8.2
Social sciences	5.7	5.9	6.4	6.6	6.5	6.6	6.8	7.0	7.4
Anthropology	4.7	4.3	4.5	6.4	5.0	5.8	6.0	5.6	6.0
Area and ethnic studies	7.2	7.6	8.7	8.7	9.9	8.5	9.3	9.9	10.0
Economics	4.4	5.5	4.5	4.8	5.9	5.4	6.3	5.6	4.7
History of science	0.0	0.0	4.8	0.0	5.6	0.0	0.0	0.0	3.8
Linguistics	6.4	4.7	6.9	5.4	6.5	6.5	6.2	9.3	9.2
Political science and public administration	5.8	6.3	6.7	6.7	6.7	6.8	6.9	6.8	7.7
Sociology	6.0	6.0	6.7	7.9	6.7	7.6	8.2	8.9	7.9
Other	5.0	4.1	5.0	4.9	4.5	5.2	5.7	6.5	6.3
Engineering	4.8	5.4	5.4	5.5	5.3	6.2	6.0	5.8	6.3
Aerospace engineering	4.5	3.8	3.1	4.8	3.1	3.6	5.9	3.8	5.2
Chemical engineering	5.9	5.4	5.5	6.8	5.9	5.7	5.5	6.7	6.2
Civil engineering	4.5	5.9	6.0	7.2	5.7	5.9	6.8	6.0	6.7
Electrical engineering	4.3	5.0	4.4	4.5	5.5	6.4	5.3	5.7	5.8
Industrial engineering	7.5	9.2	9.7	10.5	7.8	10.1	11.0	10.1	11.0
Materials engineering	3.4	3.1	5.2	3.9	1.6	3.8	5.8	3.9	4.6
Mechanical engineering	4.8	4.5	4.2	3.9	5.2	6.0	5.3	5.4	6.0
Other	3.9	4.1	4.6	3.6	4.1	4.6	4.3	4.1	5.0
Non-S&E	4.5	5.2	5.4	5.5	5.7	6.1	6.5	6.5	6.8
American Indian/Alaska Native									
All fields	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6
S&E	0.5	0.5	0.7	0.6	0.6	0.6	0.6	0.6	0.6
Sciences	0.6	0.6	0.7	0.6	0.6	0.7	0.6	0.7	0.7
Agricultural sciences	0.7	0.7	0.5	0.7	0.7	0.6	0.8	1.0	0.9
Biological sciences	0.4	0.5	0.5	0.6	0.5	0.5	0.4	0.6	0.4

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(Percent)									
Field and race/ethnicity	1998	2000	2001	2002	2003	2004	2005	2006	2007
Computer sciences	0.2	0.4	0.8	0.4	0.4	0.5	0.4	0.6	0.4
Earth, atmospheric, and ocean sciences	0.8	0.8	0.9	0.3	0.7	0.5	0.8	0.3	0.6
Atmospheric sciences	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.6
Earth sciences	0.8	0.9	0.8	0.4	0.9	0.7	0.9	0.3	0.7
Ocean sciences	2.1	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0
Mathematics and statistics	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.4	0.4
Physical sciences	0.5	0.4	0.4	0.6	0.5	0.3	0.4	0.5	0.4
Astronomy	0.0	0.0	0.0	0.0	1.1	0.0	0.8	0.0	0.0
Chemistry	0.8	0.4	0.5	0.9	0.4	0.2	0.5	0.6	0.6
Physics	0.1	0.4	0.2	0.5	0.6	0.5	0.3	0.3	0.3
Other	0.0	0.5	0.0	0.0	0.4	0.0	0.6	1.2	0.7
Psychology	0.9	0.5	0.8	0.7	0.8	0.7	0.7	0.7	0.6
Social sciences	0.6	0.7	0.9	0.8	0.8	0.9	0.7	0.8	0.9
Anthropology	1.4	1.6	1.7	1.3	1.1	1.9	1.4	2.0	2.3
Area and ethnic studies	1.1	1.2	1.6	1.6	2.7	2.0	1.9	1.6	1.7
Economics	0.3	0.2	0.6	0.8	0.4	0.4	0.6	0.2	0.7
History of science	0.0	0.0	4.8	3.0	0.0	0.0	0.0	0.0	0.0
Linguistics	0.5	0.3	0.3	1.1	0.3	0.5	1.4	0.4	0.5
Political science and public administration	0.4	0.6	0.6	0.7	0.7	0.9	0.6	0.7	0.8
Sociology	1.2	1.6	1.6	1.0	1.0	0.9	0.5	0.7	0.6
Other	0.6	0.7	0.8	0.5	0.3	0.6	0.4	0.7	0.5
Engineering	0.3	0.4	0.4	0.4	0.4	0.5	0.4	0.5	0.4
Aerospace engineering	0.0	0.0	0.6	1.0	0.5	1.0	0.3	1.2	0.7
Chemical engineering	0.1	0.4	0.6	0.3	0.3	0.0	0.5	0.3	1.0
Civil engineering	0.4	0.5	0.4	0.4	0.5	0.6	0.4	0.6	0.5
Electrical engineering	0.2	0.3	0.3	0.3	0.4	0.2	0.4	0.3	0.1
Industrial engineering	0.3	0.4	0.8	0.4	0.4	0.8	0.8	0.4	0.6
Materials engineering	0.0	0.8	0.2	0.5	0.3	0.2	0.2	0.2	0.0
Mechanical engineering	0.5	0.3	0.3	0.3	0.4	0.8	0.2	0.4	0.4
Other	0.3	0.5	0.4	0.3	0.5	0.3	0.5	0.5	0.4
Non-S&E	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6
Other or unknown race/ethnicity									
All fields	5.2	6.4	7.6	8.7	9.6	10.7	9.8	10.3	11.0
S&E	5.1	6.4	7.4	8.2	8.4	8.7	9.5	10.0	10.0
Sciences	5.2	6.5	7.6	8.3	8.5	9.0	9.8	10.4	10.2
Agricultural sciences	3.7	4.3	5.0	4.9	5.3	6.0	6.6	7.0	7.0
Biological sciences	4.8	5.1	5.3	5.8	5.9	6.2	6.8	7.2	8.4
Computer sciences	6.4	7.9	12.3	13.5	12.9	13.7	13.5	14.3	13.8
Earth, atmospheric, and ocean sciences	3.0	4.0	5.0	4.0	6.0	4.9	6.3	6.9	6.0
Atmospheric sciences	2.6	0.8	6.9	4.4	2.3	3.7	3.6	3.7	2.5
Earth sciences	3.1	4.5	4.7	3.6	6.5	5.1	6.8	7.3	6.5
Ocean sciences	3.2	2.9	6.8	7.5	5.4	4.2	4.3	7.4	5.9
Mathematics and statistics	6.1	6.5	6.6	7.4	6.8	8.2	8.5	7.9	8.3
Physical sciences	4.9	5.7	5.8	6.9	6.4	7.1	8.2	7.2	9.4
Astronomy	6.1	10.0	18.5	13.0	17.0	15.7	9.8	7.7	14.0
Chemistry	4.9	6.3	5.8	8.1	4.9	6.1	8.1	6.2	8.2
Physics	5.7	5.5	5.6	6.4	8.7	8.3	9.4	9.0	11.1
Other	1.5	1.8	3.8	1.5	2.1	2.4	0.6	2.4	3.5
Psychology	4.5	6.6	6.7	7.5	7.5	7.7	8.5	9.2	9.6
Social sciences	5.6	6.8	7.6	8.1	8.8	9.2	10.8	11.8	10.8
Anthropology	4.8	6.4	6.6	8.3	8.6	7.3	10.2	11.8	10.3

TABLE E-4. Racial/ethnic distribution of S&E master's degrees awarded to U.S. citizens and permanent residents, by field: 1998–2007
(Percent)

Field and race/ethnicity	1998	2000	2001	2002	2003	2004	2005	2006	2007
Area and ethnic studies	6.3	8.6	13.5	12.7	11.7	11.9	14.9	20.2	13.4
Economics	5.8	8.0	7.9	8.6	15.0	16.9	15.5	16.4	15.1
History of science	0.0	9.1	0.0	15.2	11.1	9.1	8.7	3.1	7.7
Linguistics	4.5	5.3	6.3	7.7	9.1	10.1	9.5	11.6	9.2
Political science and public administration	6.4	7.4	7.7	8.5	8.8	9.3	10.8	11.7	10.8
Sociology	3.0	2.2	3.3	3.1	3.7	3.7	6.7	6.7	8.9
Other	4.0	6.5	7.4	7.1	7.4	7.8	8.7	8.1	8.3
Engineering	5.0	5.9	6.8	7.9	8.2	7.8	8.6	8.6	9.1
Aerospace engineering	4.8	2.7	6.4	4.8	7.0	7.9	6.4	8.3	7.4
Chemical engineering	3.8	4.2	5.6	8.0	6.9	6.1	10.8	7.5	9.3
Civil engineering	3.9	4.6	5.4	6.1	7.0	6.6	7.0	7.4	7.3
Electrical engineering	5.8	6.8	8.3	10.5	9.9	8.8	10.0	10.1	9.7
Industrial engineering	7.5	9.2	8.4	8.0	8.6	9.0	9.7	8.8	10.7
Materials engineering	2.9	4.6	6.7	5.0	6.6	5.3	6.0	7.7	7.2
Mechanical engineering	4.3	5.4	5.3	6.8	6.5	6.8	7.9	8.5	8.2
Other	4.9	5.3	6.6	7.3	8.5	8.1	8.3	8.1	9.8
Non-S&E	5.2	6.5	7.7	8.8	9.8	11.1	9.9	10.4	11.2

NOTES: Race/ethnicity breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial/ethnic groups. Data not available for 1999. Data based on degree-granting institutions eligible to participate in Title IV federal financial aid programs and do not match previously published data based on accredited higher education institutions.

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, 1998–2007.