

ENGINEERING BY THE NUMBERS

BY BRIAN L. YODER, PH.D.

BACHELOR'S DEGREES AND ENROLLMENT

Engineering bachelor's degrees rose by 6 percent in 2012, reaching 88,176. Growth in degrees is expected to continue in the future, with enrollment having increased 25 percent for full-time students, and 34 percent for part-time students since 2008. Only one field, engineering (general), showed a decrease in degrees awarded in 2012, with a decline of 19 percent from the previous year. However, degrees awarded in civil engineering increased by only 1 percent in 2012. Based on enrollment trends, the number of degrees awarded in civil engineering is expected to stay the same or decrease slightly over the next few years.

Some smaller fields saw double-digit percent increases in degrees awarded in 2012 over the previous year, and enrollment trends favor continued growth. These fields include engineering management, up 38 percent; environmental, 30 percent; nuclear, 20 percent; and petroleum, 13 percent. Larger fields that also saw double-digit increases in 2012 include electrical/computer, 13 percent; computer science, 10 percent; and chemical, 12 percent. Based on enrollment trends, degrees awarded in these fields should continue to grow into the foreseeable future. Notably, increases in computer fields and chemical versus declines in enrollment and degrees awarded during the 2000s.

MASTER'S DEGREES AND ENROLLMENT

Master's degrees reached another all-time high of 49,372 in 2012, up 5 percent over the previous year. This trend is expected to continue, with enrollment climbing this year for the eighth year in a row. Fall 2012 master's enrollment stood at 105,371, 14 percent higher than in 2008 and 27 percent higher than in 2005, when the trend of increased enrollment began. Civil/environmental engineering saw a particularly large increase, 104 percent, in degrees awarded in 2012; Environmental engineering saw a 9 percent increase. Based on enrollment trends, both fields should award more degrees next year and then reach a plateau that will last for the following few years.

DOCTORAL DEGREES AND ENROLLMENT

Doctoral degrees increased by 5 percent in 2012 over 2011 to reach a new all-time high of 10,035 -- a 10 percent increase since 2008 and a 71 percent increase since 2003. With enrollment in doctoral programs having risen by 22 percent since 2008, this degree trend should continue. Mining engineering posted the largest percentage increase, 125 percent, by awarding five more doctorates than in 2011. Also showing large increases over 2011 were aerospace, up 52 percent; civil/environmental, up 47 percent, and engineering (general), up 27 percent. Enrollment trends indicate that awards of aerospace and engineering (general) doctorates should level off next year, while civil/environmental should continue to increase.

ENGINEERING STUDENTS FROM OTHER COUNTRIES

Nonresident aliens increased their share of engineering bachelor's degrees for the third consecutive year, reaching 7.5 percent. However, their representation has declined in recent years at the master's and doctoral levels. The 43.3 percent of master's degrees awarded to nonresident aliens is the lowest since 2008. Engineering doctorates awarded to nonresident aliens fell to 53.3 percent in 2012, the lowest level in the last 10 years.

DEMOGRAPHIC TRENDS OF ENGINEERING STUDENTS

The most notable demographic trend in 2012 was an increase in the percentage of master's and doctoral degrees awarded to white students, which in 2011 had fallen four percent from the previous year. The percentage of bachelor's degrees awarded to white students decreased again, to 66.2. Black students accounted for a higher proportion of doctoral degrees than in 2011, but their proportion of master's degrees decreased slightly and their percentage of bachelor's degrees stayed the same. Asian Americans received a lower percentage of doctoral and master's degrees than in 2011, and earned the same 12.2 percent of bachelor's degrees. Hispanics earned 9 percent of bachelor's degrees, continuing a 10-year trend of yearly increases. Once again, as more Hispanics graduate with a bachelor's degree, we anticipate that more will also enroll in master's and doctoral programs and in coming years and will earn an increased proportion of advanced degrees. The percentage of 2012 master's degrees awarded to Hispanics jumped 1 percent to 7.3.

FEMALE ENGINEERING STUDENTS

Women increased their representation at the bachelor's-degree level for the fourth straight year, earning 18.9 percent of degrees awarded in 2012, up from 17.8 percent in 2009. Women's enrollment in bachelor's degree programs has also increased slightly over the past few years, from 18.1 percent in 2010 to 18.9 percent in 2012. Based on enrollment trends, we expect to see the percentage of women receiving an engineering bachelor's degree to increase slightly over the next few years. The percentage of engineering master's degrees going to women reached a 10-year high of 23.1. Over the past decade, however, that percentage has been relatively stable, dipping only to a low of 21.9 in 2004. The percentage of doctoral degrees awarded to women rose slightly over 2011 to 22.2, and represents an increase of almost 5 percent since 2003. Based on enrollment trends, we expect the percent of doctoral degrees awarded to women to remain about the same over the next few years.

FACULTY

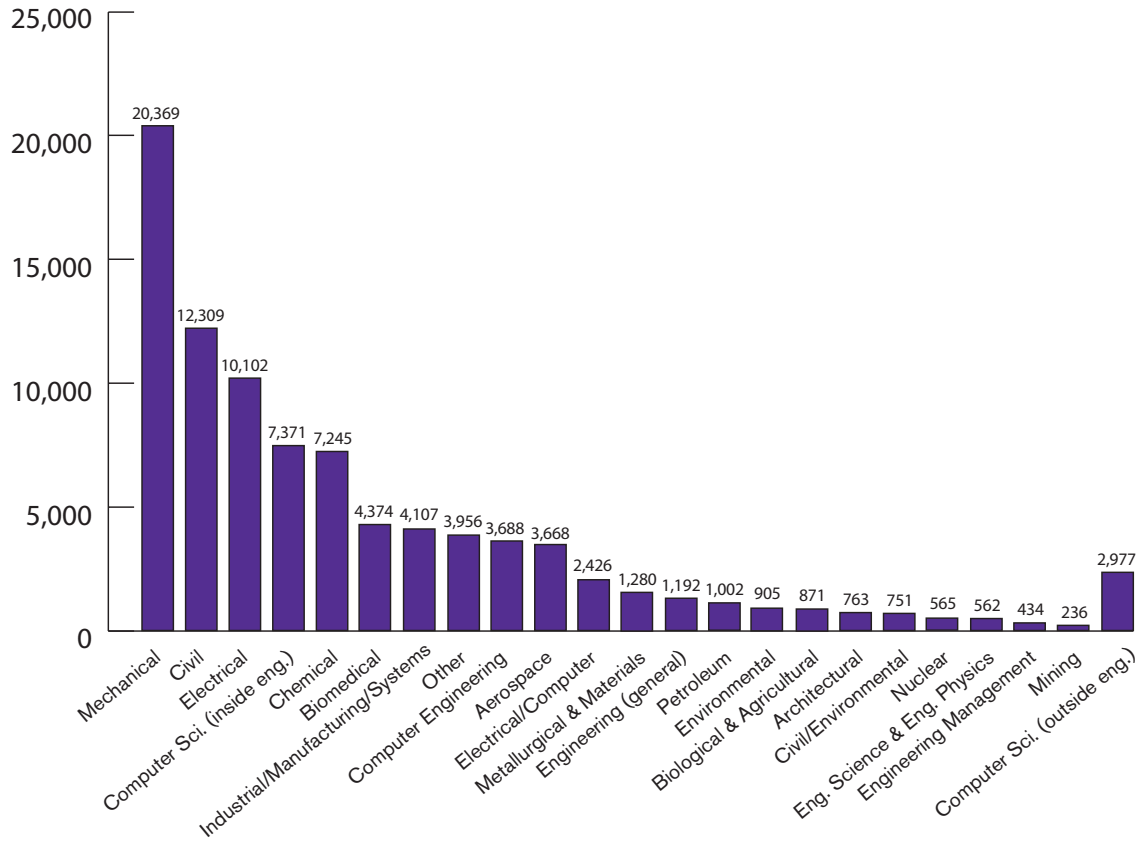
Women comprise 14.0 percent of tenured and tenure-track faculty as of the fall of 2012, continuing a slow climb from 8.9 percent in 2001. The percentage of women among full professors increased from 8.7 last year to 8.9 this year. Among associate professors, their percentage increased from 15.8 last year to 16.2 this year, but among assistant professors it decreased slightly from 23.0 last year to 22.8 this year. Engineering faculty became slightly more diverse this year. Among tenured and tenure-track faculty, the percentage of African Americans increased from 2.5 last year to 2.7 this year; the percentage of Asians rose from 24.1 to 24.6, and the percentage of Hispanics grew from 3.7 to 3.9. The number of American Indian and Hawaiian/Pacific Islanders, tenured and tenure-track, fluctuated by only a few faculty.

MORE DATA

More detailed data for 342 U.S. and 11 Canadian engineering colleges can be found in the following pages of our 2012 Profiles of Engineering and Engineering Technology Colleges book or online at www.asee.org/colleges.

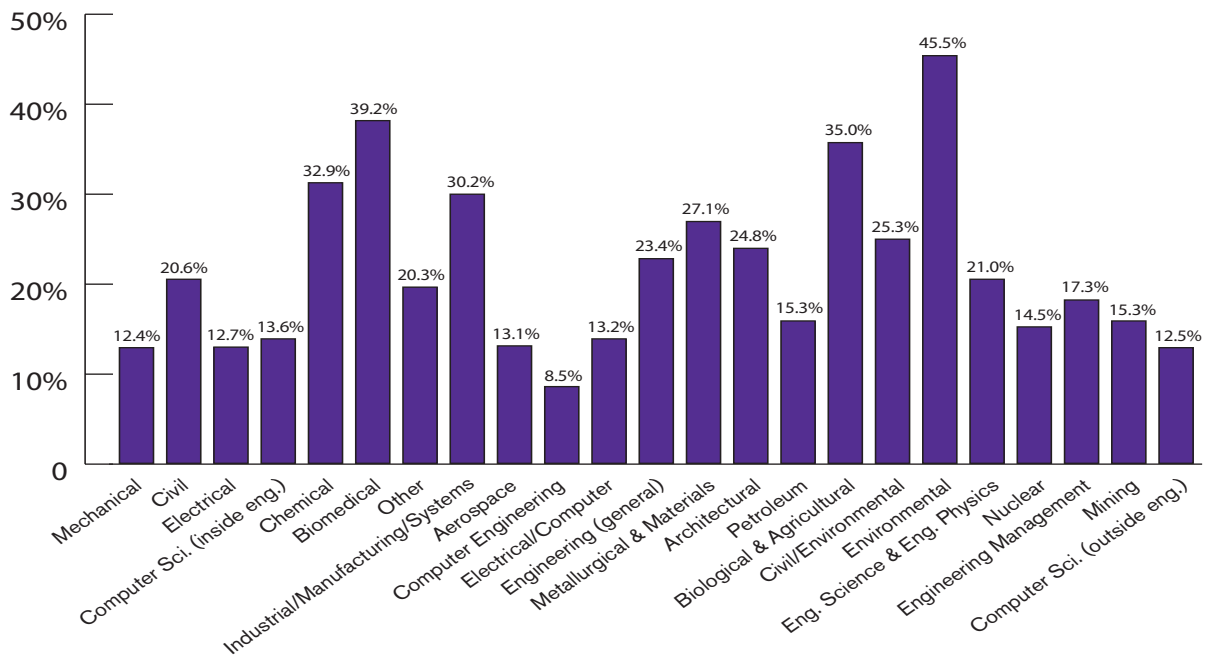
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BACHELOR'S DEGREES AWARDED BY ENGINEERING DISCIPLINE: 88,176*



*Total does not include computer science (outside engineering).

PERCENTAGE OF BACHELOR'S DEGREES AWARDED TO WOMEN BY DISCIPLINE: 18.9% OF TOTAL

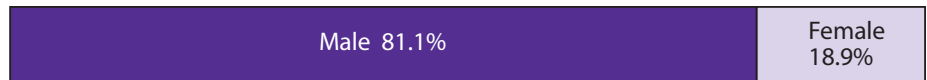


ENGINEERING BACHELOR'S DEGREES AWARDED BY SCHOOL

1.	Georgia Institute of Technology	1,663
2.	Pennsylvania State University	1,511
3.	Univ. of Illinois, Urbana-Champaign	1,482
4.	Purdue University	1,376
5.	Texas A&M University	1,372
6.	University of Michigan	1,348
7.	Virginia Tech	1,281
8.	North Carolina State University	1,262
9.	Ohio State University	1,117
10.	California Poly. State U., SLO	1,084
11.	University of Texas, Austin	1,071
12.	University of Florida	1,040
13.	University of California, Berkeley	941
14.	University of Minnesota, Twin Cities	903
15.	University of California, San Diego	883
16.	University of Central Florida	869
17.	Iowa State University	859
18.	University of Washington	832
19.	Missouri Univ. of Science and Tech.	802
20.	Cornell University	752
21.	Arizona State University	750
22.	Colorado School of Mines	720
23.	University of California, Los Angeles	716
24.	Rensselaer Polytechnic Institute	710
25.	University of Maryland, College Park	703
26.	Rutgers University	679
27.	University of Wisconsin, Madison	660
28.	Oregon State University	658
29.	California State Poly. U., Pomona	647
30.	Michigan Technological University	646
31.	Clemson University	638
32.	University of Colorado, Boulder	636
33.	Louisiana State University	630
34.	SUNY, Buffalo	616
35.	Massachusetts Inst. of Technology	612
36.	University of Puerto Rico, Mayaguez	609
37.	University of California, Davis	595
38.	Florida International University	588
39.	Texas Tech University	577
40.	Worcester Polytechnic Institute	550
40.	University of Virginia	550
42.	University of California, Irvine	547
43.	Drexel University	545
44.	West Virginia University	524
45.	Auburn University	520
46.	Michigan State University	518
46.	University of Missouri	518
48.	George Mason University	505
49.	University of Nebraska, Lincoln	503
50.	University of South Florida	498

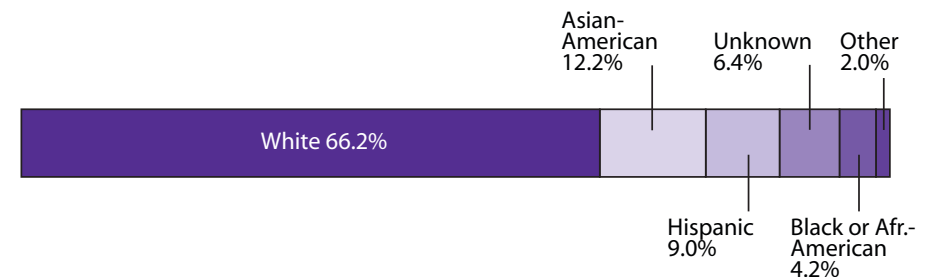
352 schools reported.

BACHELOR'S DEGREES BY GENDER, 2012



	2003	2004	2005	2006	2007	2008	2009	2010	2011
Female	20.4%	20.3%	19.5%	19.3%	18.1%	18.0%	17.8%	18.1%	18.4%
Male	79.6%	79.7%	80.5%	80.7%	81.9%	82.0%	82.2%	81.9%	81.6%

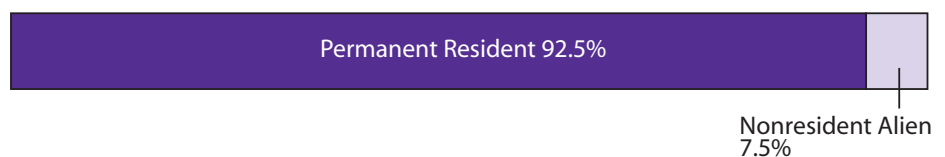
BACHELOR'S DEGREES BY ETHNICITY, 2012*



	2003	2004	2005	2006	2007	2008	2009	2010	2011
Black or African American	5.1%	5.1%	5.3%	5.0%	4.9%	4.7%	4.6%	4.5%	4.2%
Hispanic	5.4%	5.6%	5.8%	6.0%	6.2%	6.5%	6.6%	7.0%	8.5%
Other	7.2%	8.0%	8.6%	8.5%	8.3%	8.9%	11.0%	1.2%	1.6%
Asian American	14.0%	14.2%	14.1%	13.8%	13.3%	13.0%	12.4%	12.2%	12.2%
White	68.3%	67.1%	66.2%	66.7%	67.3%	66.9%	65.4%	69.8%	66.6%
Unknown							5.3%	6.9%	

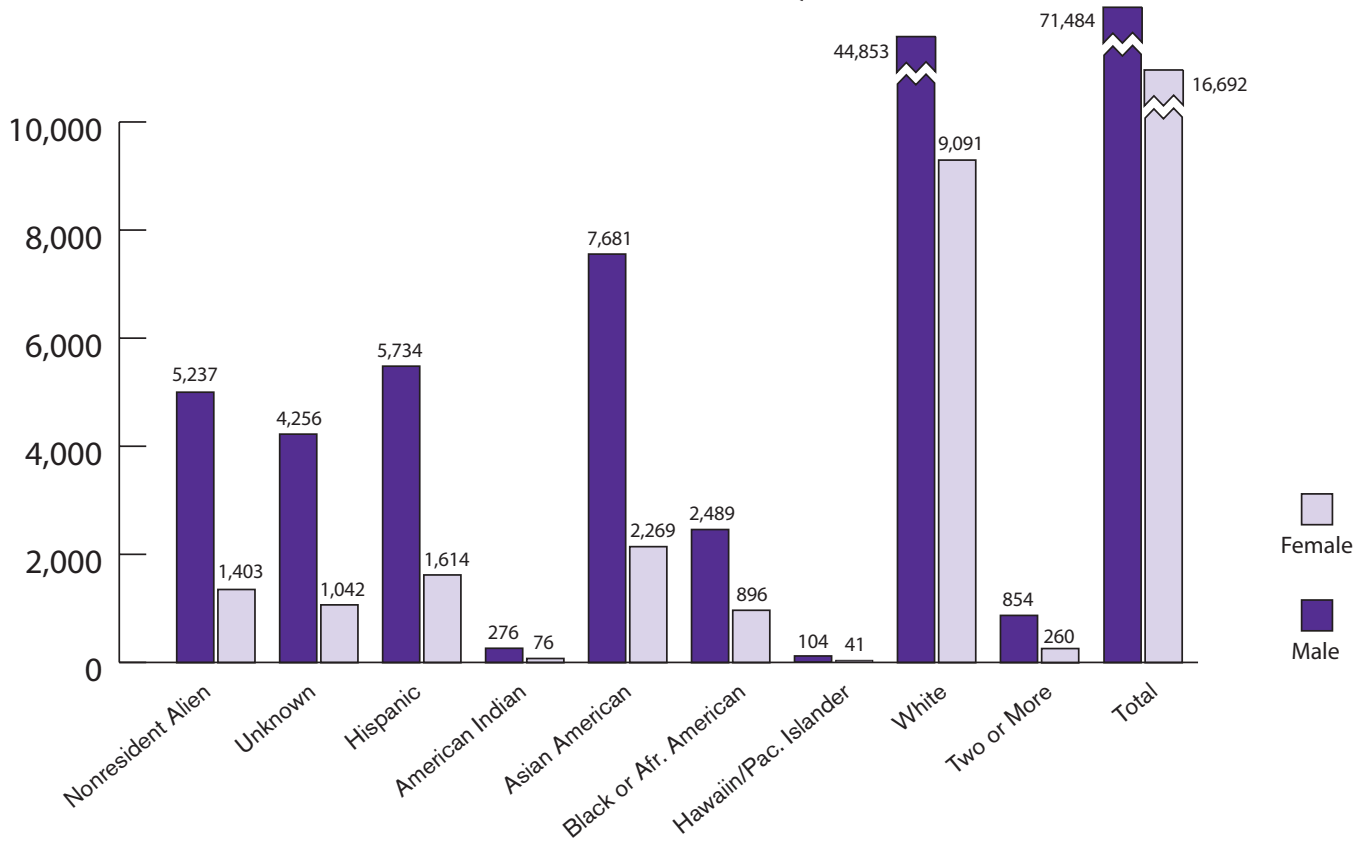
*American Indians (0.4%), Hawaiian/Pacific Islanders (0.2%) and Two or More (1.4%) are combined under Other.

BACHELOR'S DEGREES BY RESIDENCY, 2012



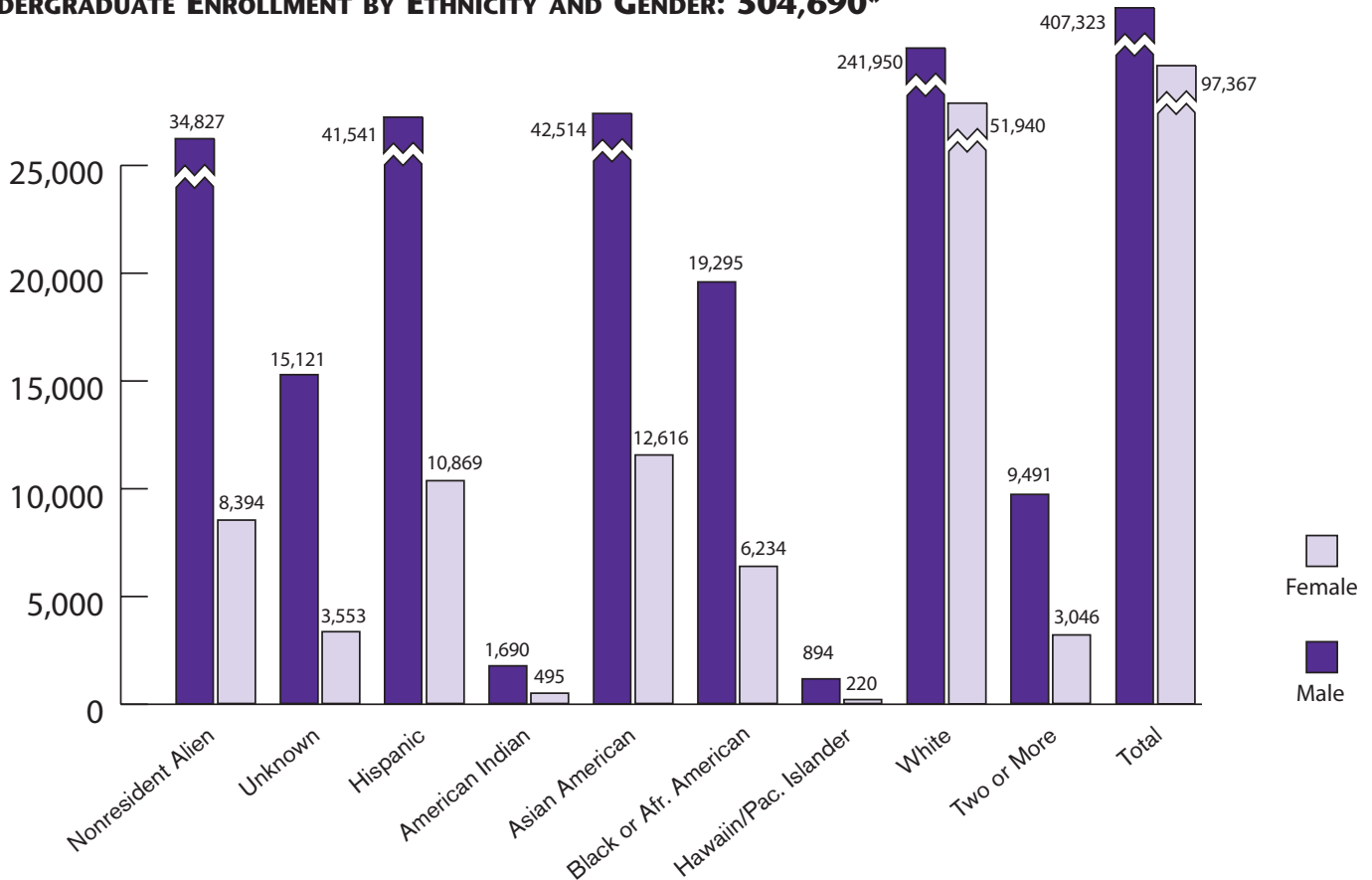
	2003	2004	2005	2006	2007	2008	2009	2010	2011
Nonresident Alien	7.7%	7.8%	7.5%	7.2%	6.7%	6.0%	6.0%	6.2%	6.7%
Permanent Resident	92.3%	92.2%	92.5%	92.8%	93.3%	94.0%	94.0%	93.8%	93.3%

BACHELOR'S DEGREES AWARDED BY ETHNICITY AND GENDER: 88,176*



* Includes 689 male and 310 female graduates from schools in Puerto Rico. Also includes 9 institutions that counted virtually all permanent residents in the Unknown category.

UNDERGRADUATE ENROLLMENT BY ETHNICITY AND GENDER: 504,690*



* Includes 4,479 male and 1,480 female enrolled students from schools in Puerto Rico. Enrollment is for full-time students. Also includes 6 institutions that counted virtually all permanent residents in the Unknown category.

BACHELOR'S DEGREES AWARDED TO WOMEN BY SCHOOL

1. Georgia Institute of Technology	346
2. University of Michigan	317
3. Purdue University	289
4. Massachusetts Inst. of Technology	255
5. Texas A&M University	254
6. Univ. of Illinois, Urbana-Champaign	249
7. Pennsylvania State University	245
8. Cornell University	239
9. University of Texas, Austin	234
10. University of Florida	220
11. University of California, Berkeley	219
12. Virginia Tech	213
13. University of Puerto Rico, Mayaguez	201
14. North Carolina State University	197
15. University of Washington	194
16. Colorado School of Mines	180
17. Ohio State University	174
18. California Poly. State U., SLO	171
19. University of Virginia	169
20. Rensselaer Polytechnic Institute	167
21. University of California, San Diego	166
22. University of Minnesota, Twin Cities	161
23. Stanford University	152
24. Worcester Polytechnic Institute	149
25. University of California, Los Angeles	142
26. Missouri Univ. of Science and Tech.	141
27. Arizona State University	139
27. University of California, Davis	139
29. Michigan Technological University	132
30. Iowa State University	131
31. University of Southern California	130
32. Columbia University	128
33. Rutgers University	127
34. University of California, Irvine	126
35. University of Pennsylvania	121
35. University of Wisconsin, Madison	121
37. University of Colorado, Boulder	118
38. Stony Brook University	113
38. Clemson University	113
40. University of Maryland, College Park	112
41. University of Pittsburgh	111
42. Louisiana State University	109
43. Florida International University	108
43. Northwestern University	108
43. Drexel University	108
46. Johns Hopkins University	105
47. William Marsh Rice University	103
48. University of Central Florida	102
48. Lehigh University	102
50. Carnegie Mellon University	100

352 schools reported.

PERCENTAGE OF BACHELOR'S DEGREES AWARDED TO WOMEN BY SCHOOL*

1 Franklin W. Olin College of Eng.	46.3%
2 Howard University	42.4%
3 Massachusetts Inst. of Technology	41.7%
4 William Marsh Rice University	41.2%
5 George Washington University	41.1%
6 California Institute of Technology	40.3%
7 Harvey Mudd College	38.5%
8 Yale University	38.2%
9 Harvard University	34.2%
10 Princeton University	33.5%
11 Alabama A&M University	33.3%
12 University of Pennsylvania	33.2%
13 North Carolina A&T State University	33.0%
13 University of Puerto Rico, Mayaguez	33.0%
15 University of New Haven	32.9%
16 Northwestern University	32.3%
17 Tufts University	32.0%
18 Cornell University	31.8%
19 Stanford University	31.7%
20 Johns Hopkins University	31.3%

*Minimum of 50 total bachelor's degrees awarded.
272 schools fit this criterion.**BACHELOR'S DEGREES AWARDED TO BLACK OR AFRICAN-AMERICANS BY SCHOOL**

1. North Carolina A&T State Univ.	166
2. Georgia Institute of Technology	97
3. Prairie View A&M University	90
4. Alabama A&M University	64
5. Morgan State University	61
6. North Carolina State University	55
7. Massachusetts Inst. of Technology	54
8. Florida International University	53
8. FAMU-FSU College of Engineering	53
8. Southern University and A&M College	53
11. Howard University	51
12. University of Florida	48
13. University of Central Florida	46
14. Florida Atlantic University	43
15. University of Maryland, College Park	42
15. Rutgers University	42
17. Tuskegee University	39
18. Auburn University	38
18. City College of the CUNY	38
19. Missouri Univ. of Science and Tech.	37
19. Jackson State University	37

352 schools reported.

BACHELOR'S DEGREES AWARDED TO ASIAN-AMERICANS BY SCHOOL

1. University of California, Berkeley	501
2. University of California, San Diego	438
3. University of California, Los Angeles	366
4. Georgia Institute of Technology	301
5. University of California, Davis	256
6. University of Texas, Austin	245
7. University of Washington	236
8. Univ. of Illinois, Urbana-Champaign	224
9. California State Poly. U., Pomona	206
10. Rutgers University	205
11. University of Michigan	191
12. California Poly. State U., SLO	186
13. San Jose State University	172
14. Cornell University	163
15. Stony Brook University	157
16. George Mason University	141
17. University of Maryland, College Park	140
18. Massachusetts Inst. of Technology	134
19. University of Southern California	121
20. Virginia Tech	110
20. California State Univ., Long Beach	110

352 schools reported.

BACHELOR'S DEGREES AWARDED TO HISPANICS BY SCHOOL

1. University of Puerto Rico, Mayaguez	609
2. Florida International University	369
3. Polytechnic Univ. of Puerto Rico	346
4. University of Texas, El Paso	217
5. Texas A&M University	189
6. University of Florida	187
7. California State Poly. U., Pomona	166
8. University of Texas, Austin	163
9. University of Central Florida	146
10. University of Texas, Pan American	134
11. California Poly. State U., SLO	130
12. Arizona State University	120
13. Texas A&M University, Kingsville	108
14. Georgia Institute of Technology	103
15. Massachusetts Inst. of Technology	100
16. University of South Florida	89
17. California State Univ., Long Beach	85
18. University of Texas, San Antonio	84
19. Texas Tech University	81
19. New Mexico State University	81

352 schools reported.

AEROSPACE ENGINEERING DEGREES AWARDED BY SCHOOL

1. Embry Riddle Aero. U., Daytona Beach	210
2. Purdue University	156
3. Georgia Institute of Technology	143
3. University of Michigan	143
4. U.S. Air Force Academy	113
4. University of Texas, Austin	113
5. Texas A&M University	112
6. Pennsylvania State University	99
7. Virginia Tech	96
8. Iowa State University	94
9. Univ. of Illinois, Urbana-Champaign	84
10. University of Florida	82
11. Embry Riddle Aero. U., Prescott	81
12. California Poly. State U., SLO	78
13. University of Maryland, College Park	77
14. University of Minnesota, Twin Cities	75
15. U.S. Naval Academy	74
16. Rensselaer Polytechnic Institute	68
17. University of Colorado, Boulder	65
17. North Carolina State University	65

67 schools reported.

BIOMEDICAL ENGINEERING DEGREES AWARDED BY SCHOOL

1. University of California, San Diego	165
2. Georgia Institute of Technology	147
3. Duke University	120
4. University of California, Irvine	118
5. University of California, Berkeley	108
6. Johns Hopkins University	104
7. Rutgers University	103
8. Washington University in St. Louis	100
9. California Poly. State U., SLO	94
9. Boston University	94
9. University of Pennsylvania	94
12. Rensselaer Polytechnic Institute	91
13. University of Texas, Austin	86
14. University of Michigan	81
15. University of Minnesota, Twin Cities	78
16. Arizona State University	70
16. Drexel University	70
18. University of Connecticut	69
18. Case Western Reserve University	69
20. Worcester Polytechnic Institute	67
20. Clemson University	67

98 schools reported.

CHEMICAL ENGINEERING DEGREES AWARDED BY SCHOOL

1. North Carolina State University	171
2. Purdue University	163
3. Texas A&M University	147
4. University of Michigan	146
5. Georgia Institute of Technology	142
6. Ohio State University	129
7. University of Texas, Austin	128
8. Pennsylvania State University	121
9. University of Minnesota, Twin Cities	120
10. University of Puerto Rico, Mayaguez	115
11. Univ. of Illinois, Urbana-Champaign	105
12. University of Colorado, Boulder	102
13. Colorado School of Mines	91
14. University of California, Berkeley	87
14. University of Florida	87
16. University of California, Los Angeles	85
16. University of Wisconsin, Madison	85
18. Brigham Young University	80
19. Virginia Tech	79
20. Iowa State University	78
21. Northeastern University	76
22. University of Pittsburgh	75
23. Massachusetts Inst. of Technology	73
23. Michigan Technological University	73
25. Worcester Polytechnic Institute	72
25. Montana State University	72
25. Cornell University	72
28. Arizona State University	71
29. University of California, Davis	70
29. Univ. of Massachusetts, Amherst	70
31. Rutgers University	69
32. University of Notre Dame	68
33. Rensselaer Polytechnic Institute	67
34. University of Delaware	65
34. Louisiana State University	65
34. Michigan State University	65
37. Auburn University	64
37. Carnegie Mellon University	64
37. Drexel University	64
40. University of Washington	63
41. Oregon State University	60
42. University of Alabama	58
43. Johns Hopkins University	57
43. Missouri Univ. of Science and Tech.	57
45. University of Kansas	56
46. University of South Florida	55
46. University of Oklahoma	55
48. University of Virginia	54
49. University of Maryland, College Park	53
50. Mississippi State University	52

159 schools reported.

CIVIL ENGINEERING DEGREES AWARDED BY SCHOOL

1. Virginia Tech	255
2. California State Poly. U., Pomona	227
2. Texas A&M University	227
4. Univ. of Illinois, Urbana-Champaign	205
5. Georgia Institute of Technology	204
6. Purdue University	187
6. Pennsylvania State University	187
8. North Carolina State University	178
9. California Poly. State U., SLO	172
10. University of Florida	159
11. University of California, Davis	153
12. University of Central Florida	150
12. Clemson University	150
14. Michigan Technological University	133
15. Ohio State University	130
16. University of Puerto Rico, Mayaguez	124
17. Iowa State University	123
18. FAMU-FSU College of Engineering	122
18. SUNY, Buffalo	122
20. University of Minnesota, Twin Cities	117
20. Manhattan College	117
22. University of California, San Diego	115
23. University of Washington	111
24. University of Alabama	110
24. University of California, Berkeley	110
24. Missouri Univ. of Science and Tech.	110
27. University of California, Irvine	107
27. Washington State University	107
27. University of Wisconsin, Madison	107
30. University of South Florida	106
30. Rutgers University	106
30. University of Texas, Austin	106
33. Texas Tech University	103
34. University of Maryland, College Park	102
34. Oregon State University	102
36. University of Kentucky	101
37. University of Missouri	100
37. University of Nebraska, Lincoln	100
39. University of Michigan	99
40. California State Univ., Sacramento	98
41. San Diego State University	94
42. Auburn University	91
42. San Jose State University	91
42. Brigham Young University	91
45. University of California, Los Angeles	88
45. Univ. of Massachusetts, Amherst	88
47. University of New Hampshire	86
48. Florida International University	85
49. Colorado State University	82
50. University of Wisconsin, Platteville	80

218 schools reported.

**INDUSTRIAL/MANUFACTURING/
SYSTEMS ENGINEERING DEGREES
AWARDED BY SCHOOL**

1. Georgia Institute of Technology	282
2. University of Michigan	179
3. Pennsylvania State University	155
4. Purdue University	151
5. Texas A&M University	139
6. Virginia Tech	128
7. University of Florida	95
8. Ohio State University	91
9. Northwestern University	88
10. West Virginia University	82
11. California Poly. State U., SLO	81
12. SUNY, Binghamton	75
13. Cornell University	72
14. University of Puerto Rico, Mayaguez	71
15. Columbia University	70
16. University of Wisconsin, Madison	69
17. Stanford University	68
18. University of California, Berkeley	58
19. University of Southern California	57
19. Polytechnic Univ. of Puerto Rico	57
21. Arizona State University	52
22. Clemson University	51
22. University of Washington	51
24. University of Central Florida	49
25. University of Pittsburgh	47
26. North Carolina State University	46
27. University of Arizona	45
27. California State Poly. U., Pomona	45
29. Iowa State University	44
30. Auburn University	43
30. Kansas State University	43
32. University of Arkansas	41
33. Lehigh University	39
34. University of Missouri	38
35. University of South Florida	37
35. Indiana Institute of Technology	37
35. North Dakota State University	37
35. Rochester Institute of Technology	37
35. University of Texas, El Paso	37
40. FAMU-FSU College of Engineering	35
40. SUNY, Buffalo	35
42. Mississippi State University	34
42. Rutgers University	34
42. Oregon State University	34
45. Univ. of Illinois, Urbana-Champaign	33
45. Rensselaer Polytechnic Institute	33
47. University of Iowa	32
48. Northeastern University	31
49. University of Tennessee, Knoxville	30
49. Texas Tech University	30
49. University of Texas, Arlington	30

115 schools reported.

**MECHANICAL ENGINEERING
DEGREES AWARDED BY SCHOOL**

1. Georgia Institute of Technology	396
2. Purdue University	283
3. Virginia Tech	278
4. Ohio State University	248
5. Pennsylvania State University	233
6. Texas A&M University	231
7. University of Florida	221
8. Iowa State University	219
9. University of Texas, Austin	217
10. California Poly. State U., SLO	208
11. North Carolina State University	207
12. Univ. of Illinois, Urbana-Champaign	204
13. University of Minnesota, Twin Cities	202
14. University of Central Florida	196
15. University of Maryland, College Park	195
16. Texas Tech University	190
17. University of California, San Diego	187
17. Michigan Technological University	187
19. Rensselaer Polytechnic Institute	186
20. University of Michigan	185
21. University of California, Berkeley	182
21. Missouri Univ. of Science and Tech.	182
23. Kettering University	181
24. Rutgers University	174
25. University of California, Davis	163
26. University of Wisconsin, Madison	155
27. Clemson University	154
28. Worcester Polytechnic Institute	149
29. Rochester Institute of Technology	148
30. Massachusetts Inst. of Technology	145
31. Arizona State University	143
31. Michigan State University	143
33. Brigham Young University	138
34. Colorado School of Mines	136
34. SUNY, Buffalo	136
36. Northeastern University	133
37. California State Poly. U., Pomona	132
38. University of Kentucky	131
39. University of Utah	130
40. University of Colorado, Boulder	126
41. Rose-Hulman Inst. of Technology	125
41. Univ. of North Carolina, Charlotte	125
43. University of South Florida	124
44. University of Connecticut	122
44. University of Puerto Rico, Mayaguez	122
46. Oregon State University	121
46. Drexel University	121
46. Washington State University	121
49. University of Missouri	120
49. University of Cincinnati	120

288 schools reported.

**ELECTRICAL ENGINEERING
DEGREES AWARDED BY SCHOOL**

1. Univ. of Illinois, Urbana-Champaign	232
2. Georgia Institute of Technology	203
3. Pennsylvania State University	173
4. University of California, Los Angeles	172
5. Purdue University	166
6. University of Washington	161
7. North Carolina State University	146
8. University of Texas, Dallas	135
9. University of Maryland, College Park	130
10. University of Michigan	126
11. University of Minnesota, Twin Cities	124
12. California Poly. State U., SLO	123
13. California State Poly. U., Pomona	120
14. University of Florida	116
15. University of Central Florida	110
16. University of California, San Diego	107
16. Texas A&M University	107
18. Arizona State University	97
18. California State Univ., Los Angeles	97
20. Michigan Technological University	95
21. Florida International University	93
22. Virginia Tech	90
23. SUNY, Buffalo	89
24. University of Puerto Rico, Mayaguez	85
25. Auburn University	82
25. Missouri Univ. of Science and Tech.	82
27. North Dakota State University	80
28. San Jose State University	77
28. University of South Florida	77
30. University of Illinois, Chicago	74
31. Rochester Institute of Technology	73
32. City College of the CUNY	71
33. Rensselaer Polytechnic Institute	69
33. University of Texas, El Paso	69
35. Iowa State University	67
36. University of Texas, Arlington	66
37. Northeastern University	64
38. University of California, Irvine	63
38. Polytechnic Univ. of Puerto Rico	63
40. University of Wisconsin, Madison	61
41. Louisiana State University	60
42. California State Univ., Long Beach	59
42. Portland State University	59
42. Drexel University	59
42. Texas Tech University	59
42. University of Texas, San Antonio	59
47. University of Massachusetts, Lowell	58
48. University of California, Davis	57
48. Kettering University	57
48. University of Pittsburgh	57
48. George Mason University	57

259 schools reported.

COMPUTER ENGINEERING DEGREES AWARDED BY SCHOOL

1. Univ. of Illinois, Urbana-Champaign	96
2. North Carolina State University	88
3. Iowa State University	83
4. University of Michigan	72
5. University of Florida	68
6. Georgia Institute of Technology	65
7. Purdue University	64
8. University of Puerto Rico, Mayaguez	63
9. Virginia Tech	62
10. California Poly. State U., SLO	60
11. Rochester Institute of Technology	59
12. University of Central Florida	57
13. San Jose State University	55
13. University of Washington	55
15. Rensselaer Polytechnic Institute	53
16. Missouri Univ. of Science and Tech.	52
17. Florida International University	49
18. Arizona State University	48
19. University of Wisconsin, Madison	43
20. University of Pittsburgh	41
21. University of Alabama, Huntsville	39
21. University of South Florida	39
23. Santa Clara University	37
23. University of Nebraska, Lincoln	37
23. Pennsylvania State University	37
26. University of California, Santa Cruz	36
26. University of Maryland, College Park	36
28. Northeastern University	35
28. SUNY, Buffalo	35
30. Polytechnic Univ. of Puerto Rico	34
30. West Virginia University	34
32. Univ. of Massachusetts, Amherst	33
32. North Dakota State University	33
34. San Diego State University	32
35. University of Michigan, Dearborn	32
36. Univ. of Maryland, Baltimore County	31
36. SUNY, Binghamton	31
36. Drexel University	31
36. Milwaukee School of Engineering	31
40. Clemson University	30
41. Indiana U. Purdue U., Indianapolis	29
42. Kettering University	27
42. University of Minnesota, Twin Cities	27
42. University of Virginia	27
45. University of Arizona	26
45. Michigan State University	26
45. Michigan Technological University	26
45. Univ. of North Carolina, Charlotte	26
45. New Jersey Institute of Technology	26
50. California State Poly. U., Pomona	25

183 schools reported.

ELECTRICAL/COMPUTER ENGINEERING DEGREES AWARDED BY SCHOOL

1. University of Texas, Austin	236
2. University of California, Berkeley	226
3. Ohio State University	169
4. Rutgers University	147
5. Carnegie Mellon University	146
6. Oregon State University	95
7. Worcester Polytechnic Institute	88
8. Cornell University	87
9. Colorado School of Mines	83
10. Brigham Young University	81
11. Massachusetts Inst. of Technology	78
12. New York Institute of Technology	76
13. Duke University	58
14. Oklahoma State University	49
15. University of Colorado, Boulder	45
16. University of Louisiana, Lafayette	44
17. University of Akron	41
17. University of Pennsylvania	41
19. Colorado State University	39
19. Temple University	39

51 schools reported.

COMPUTER SCIENCE (OUTSIDE ENG.) DEGREES AWARDED BY SCHOOL*

1. University of California, Irvine	223
2. Georgia Institute of Technology	222
3. University of Texas, Austin	195
4. University of Maryland, College Park	180
5. New Jersey Inst. of Technology	164
6. Carnegie Mellon University	155
7. University of Wisconsin, Madison	129
8. University of California, Berkeley	97
9. Rochester Institute of Technology	96
10. Rutgers University	89
11. San Jose State University	86
12. Rensselaer Polytechnic Institute	85
13. Purdue University	83
14. Northeastern University	79
15. Univ. of Massachusetts, Amherst	74
16. Brigham Young University	68
17. University of California, Davis	66
18. Worcester Polytechnic Institute	61
19. Michigan Technological University	53
19. University of Houston	53

*56 schools reported.
ASEE collects only a fraction of all computer science degrees awarded outside of engineering colleges.

COMPUTER SCIENCE (INSIDE ENG.) DEGREES AWARDED BY SCHOOL

1. Univ. of Illinois, Urbana-Champaign	210
2. University of California, San Diego	209
3. University of Central Florida	204
4. Florida International University	198
5. University of Michigan	154
6. University of Texas, Dallas	145
7. Stanford University	144
8. Stony Brook University	137
8. Ohio State University	137
10. University of Minnesota, Twin Cities	126
11. University of Washington	121
12. Virginia Tech	117
13. North Carolina State University	116
14. University of California-Santa Cruz	114
15. Massachusetts Inst. of Technology	112
16. SUNY, Binghamton	106
17. Texas A&M University	100
18. University of California, Los Angeles	99
19. University of Missouri	95
20. Cornell University	94
21. Arizona State University	86
22. Oregon State University	83
23. University of Southern California	82
24. Univ. of Maryland, Baltimore County	80
25. University of California, Berkeley	79
26. Univ. of California, Santa Barbara	78
26. University of Utah	78
28. Michigan State University	77
29. California Poly. State U., SLO	74
30. Florida Atlantic University	72
31. George Mason University	69
32. University of Pennsylvania	68
33. Pennsylvania State University	66
34. SUNY, Buffalo	63
35. University of Texas, Arlington	61
36. Portland State University	59
37. Auburn University	57
37. Wright State University	57
39. Drexel University	56
40. University of South Florida	53
40. University of Nevada, Las Vegas	53
42. Oakland University	52
42. Princeton University	52
44. New York Institute of Technology	50
45. University of North Texas	49
45. University of Virginia	49
47. University of Colorado, Boulder	47
47. Kansas State University	47
47. University of Michigan, Dearborn	47
50. California State Univ., Los Angeles	46
50. University of California, Davis	46

171 schools reported.

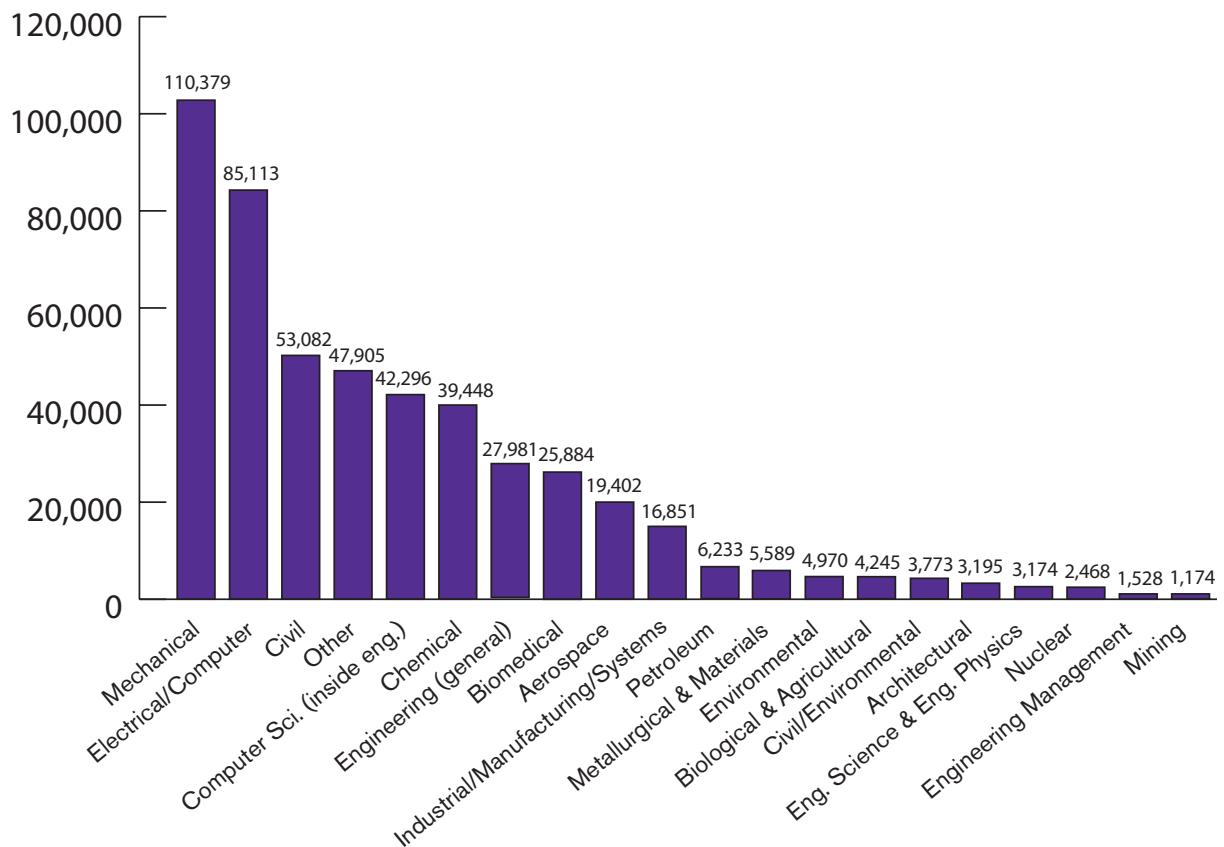
UNDERGRADUATE ENROLLMENT BY SCHOOL*

1. Georgia Institute of Technology	9,069	23. Missouri Univ. of Science and Tech.	4,273	45. Cornell University	3,192
2. Pennsylvania State University	9,010	24. California State Poly. U., Pomona	4,167	46. Kansas State University	3,171
3. Texas A&M University	7,632	25. Auburn University	4,157	47. University of Oklahoma	3,156
4. Purdue University	7,615	26. Drexel University	4,110	48. Polytechnic Univ. of Puerto Rico	3,120
5. Univ. of Illinois, Urbana-Champaign	7,558	27. University of Minnesota, Twin Cities	4,091	49. Rensselaer Polytechnic Institute	3,107
6. Ohio State University	7,202	28. Colorado School of Mines	4,086	50. University of Nebraska, Lincoln	2,996
7. Virginia Tech	6,878	29. University of Wisconsin, Madison	4,055	51. University of California, Irvine	2,970
8. University of Central Florida	6,702	30. Texas Tech University	3,862	52. George Mason University	2,958
9. Iowa State University	6,604	31. University of Houston	3,786	53. Stanford University	2,914
10. North Carolina State University	6,239	32. University of Alabama	3,566	54. San Jose State University	2,870
11. University of Michigan	5,741	33. University of California, Berkeley	3,555	55. SUNY, Buffalo	2,866
12. Arizona State University	5,724	34. West Virginia University	3,473	56. University of Maryland, College Park	2,865
13. University of Florida	5,671	35. University of California, Davis	3,445	57. Rochester Institute of Technology	2,817
14. University of California, San Diego	5,638	36. California State Univ., Long Beach	3,382	58. University of Texas, Arlington	2,803
15. University of Texas, Austin	5,637	37. University of Colorado, Boulder	3,375	59. University of Wisconsin, Platteville	2,802
16. California Poly. State U., SLO	5,406	38. Michigan Technological University	3,369	60. University of Missouri	2,772
17. Oregon State University	5,073	39. University of Utah	3,368	61. Oklahoma State University	2,731
18. Clemson University	4,457	40. Michigan State University	3,331	62. University of Arkansas	2,726
19. Florida International University	4,387	41. Rutgers University	3,296	63. University of Kentucky	2,721
20. University of Puerto Rico, Mayaguez	4,380	42. University of South Florida	3,286	63. Northeastern University	2,721
21. University of Washington	4,335	43. University of California, Los Angeles	3,232	65. Mississippi State University	2,715
22. Louisiana State University	4,311	44. Washington State University	3,218	66. California State U., Northridge	2,691

348 schools reported.

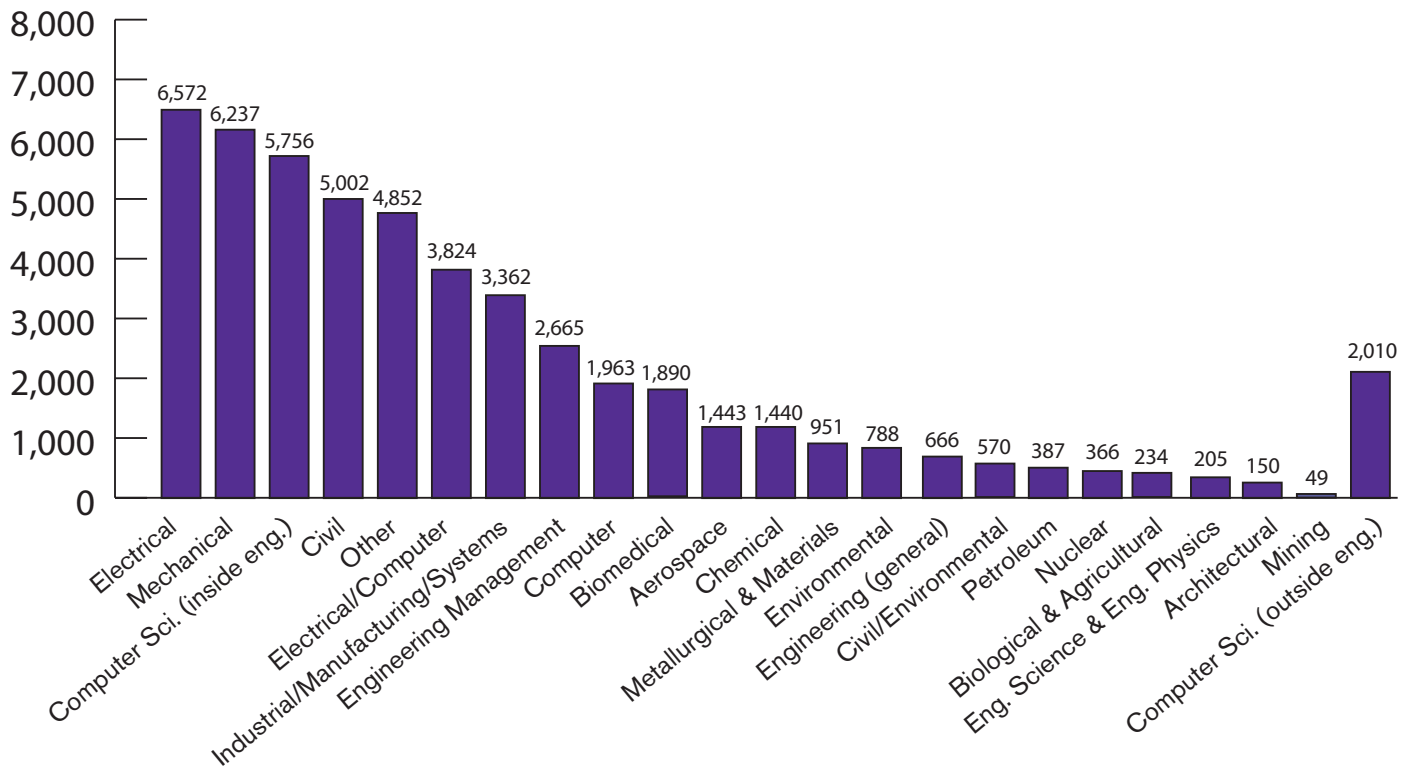
*Some schools do not permit formal enrollment in their engineering colleges until the second or third year. Enrollment is full-time plus part-time students.

UNDERGRADUATE ENROLLMENT BY DISCIPLINE:* 504,690



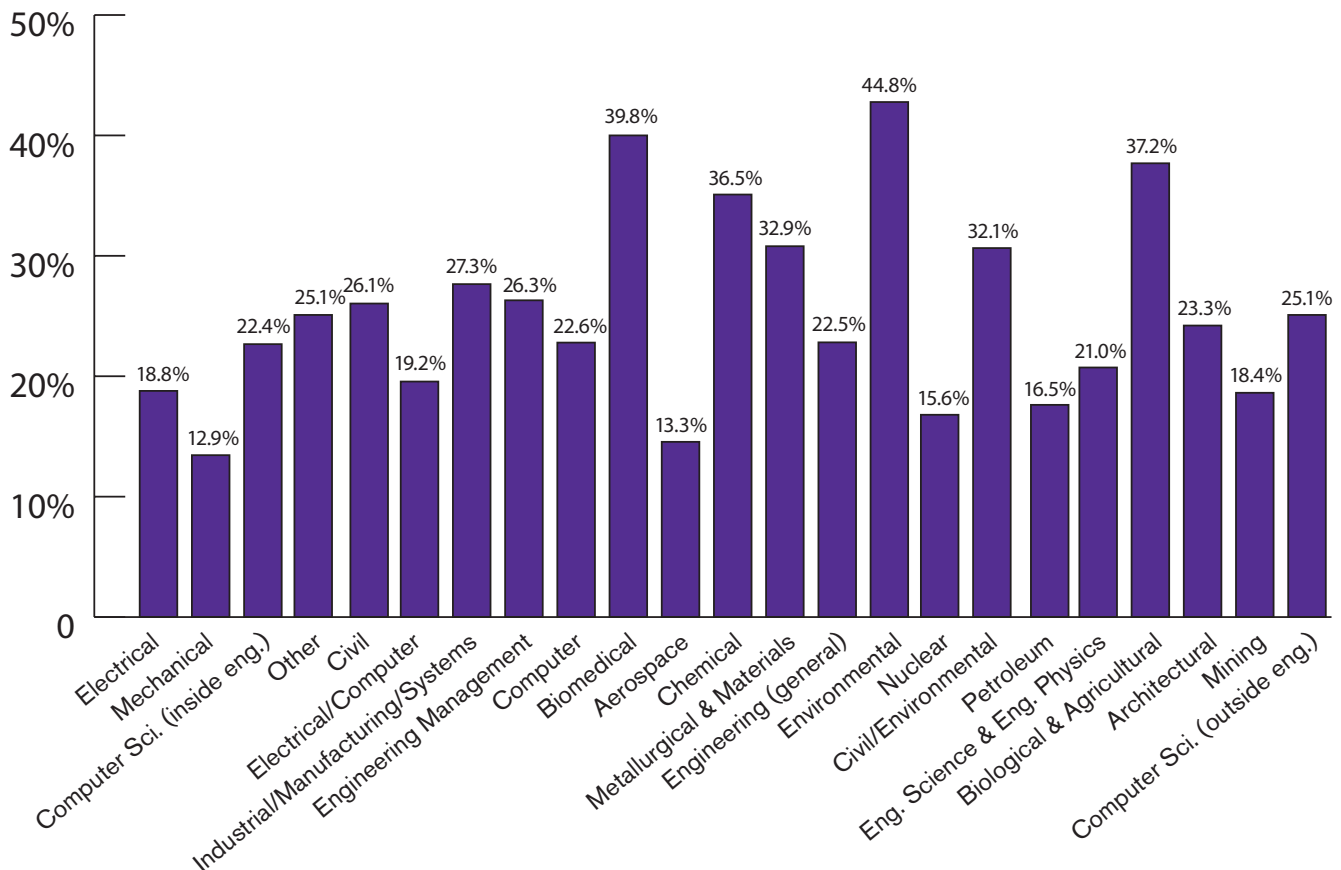
* Enrollment is for full-time bachelor's degree candidates in engineering.

MASTER'S DEGREES AWARDED BY DISCIPLINE: 49,372*



*Total does not include computer science (outside engineering).

PERCENTAGE OF MASTER'S DEGREES AWARDED TO WOMEN BY DISCIPLINE: 23.1% OF TOTAL



ENGINEERING MASTER'S DEGREES AWARDED BY SCHOOL

1. University of Southern California	1,661
2. Stanford University	1,128
3. University of Michigan	1,093
4. Georgia Institute of Technology	1,044
5. University of Florida	965
6. Johns Hopkins University	895
7. Columbia University	880
8. Stevens Institute of Technology	856
9. Polytechnic Institute of NYU	797
10. North Carolina State University	790
11. Cornell University	753
12. San Jose State University	751
13. Massachusetts Inst. of Technology	696
14. Carnegie Mellon University	684
15. Arizona State University	658
16. Texas A&M University	617
17. Purdue University	577
18. Univ. of Illinois, Urbana-Champaign	575
19. University of Pennsylvania	533
20. University of California, Los Angeles	529
21. New Jersey Inst. of Technology	525
22. George Washington University	521
23. University of Colorado, Boulder	498
24. George Mason University	478
25. University of California, Berkeley	471
26. Virginia Tech	469
27. University of Minnesota, Twin Cities	458
28. Ohio State University	452
29. University of Texas, Austin	450
30. Missouri Univ. of Science and Tech.	446
31. University of Washington	444
32. SUNY, Buffalo	430
33. Illinois Institute of Technology	426
34. University of Maryland, College Park	423
35. University of Wisconsin, Madison	415
36. Northeastern University	413
37. University of Central Florida	402
38. University of Texas, Arlington	400
39. University of Texas, Dallas	388
40. Pennsylvania State University	384
41. Worcester Polytechnic Institute	372
42. University of California, San Diego	365
43. Stony Brook University	360
44. Northwestern University	357
45. Southern Methodist University	346
46. Colorado School of Mines	327
47. Drexel University	318
48. Santa Clara University	317
48. Air Force Institute of Technology	317
50. University of Bridgeport	309

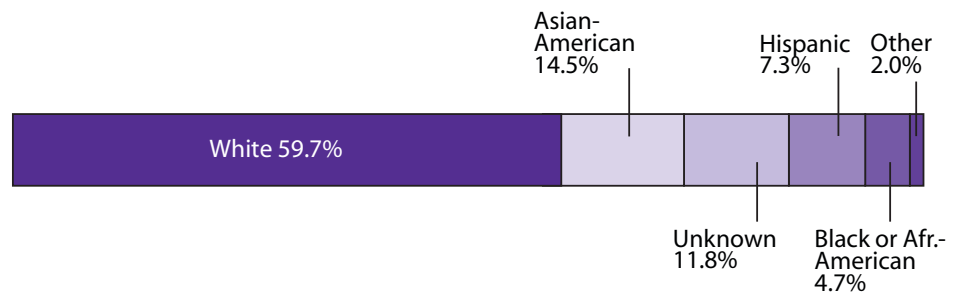
266 schools reported.

MASTER'S DEGREES BY GENDER, 2012



	2003	2004	2005	2006	2007	2008	2009	2010	2011
Female	22.3%	21.9%	22.7%	22.5%	22.4%	23.0%	23.0%	22.6%	22.6%
Male	77.7%	78.1%	77.3%	77.5%	77.6%	77.0%	77.0%	77.4%	77.4%

MASTER'S DEGREES BY ETHNICITY, 2012*



	2003	2004	2005	2006	2007	2008	2009	2010	2011
Black or African American	4.6%	4.3%	4.6%	4.4%	4.6%	4.8%	4.7%	5.1%	4.9%
Hispanic	4.3%	4.5%	5.0%	4.7%	5.2%	5.4%	5.3%	6.0%	6.3%
Other	12.1%	14.1%	14.4%	15.7%	15.2%	15.1%	17.4%	1.4%	1.5%
Asian American	15.8%	16.8%	17.7%	16.5%	16.5%	15.4%	15.1%	14.9%	15.5%
White	63.2%	60.3%	58.3%	58.7%	58.5%	59.3%	57.5%	60.9%	58.2%
Unknown								11.7%	13.6%

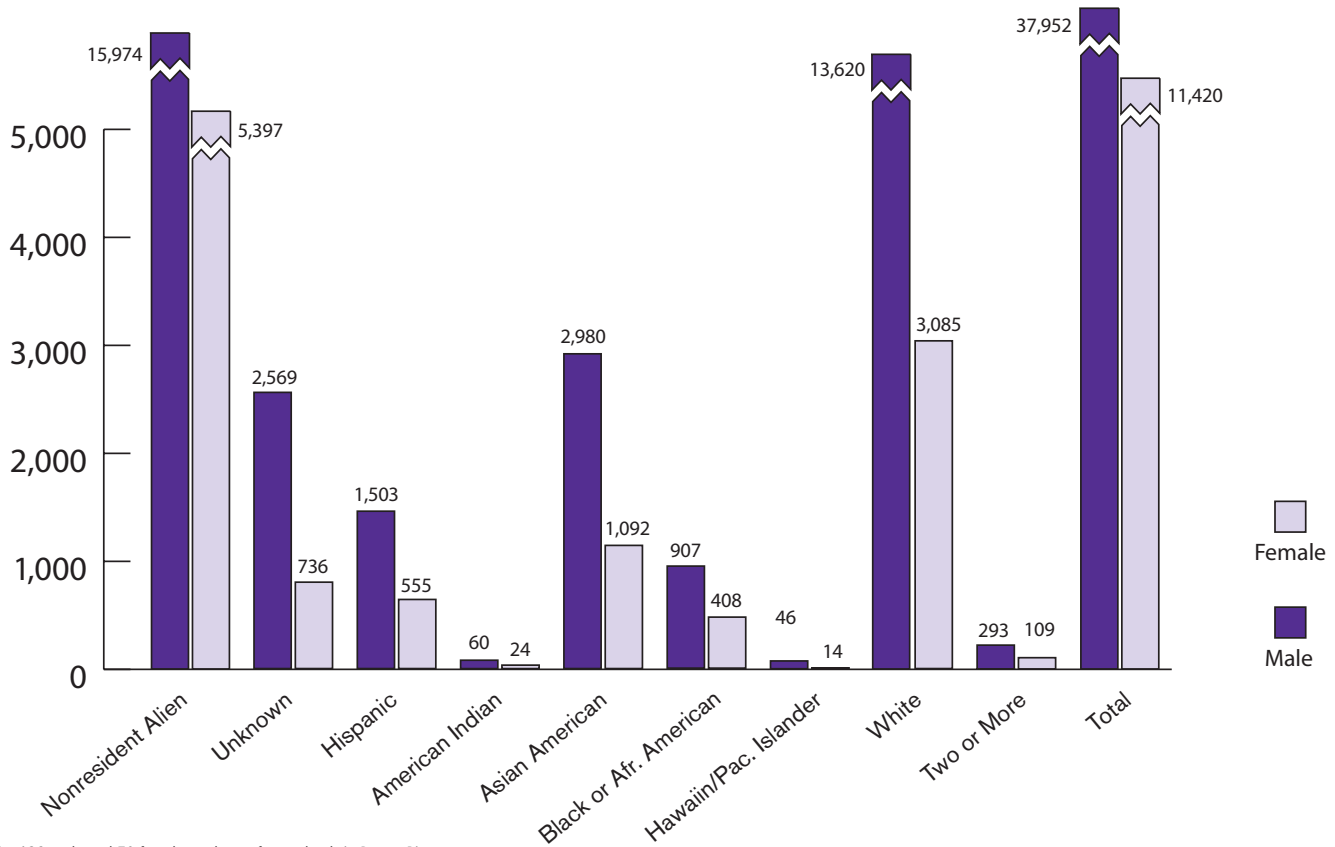
* Data on ethnicity does not include foreign nationals. American Indians (0.3%), Hawaiian/Pacific Islanders (0.2%) and Two or More (1.5%) are combined under Other.

MASTER'S DEGREES BY RESIDENCY, 2012



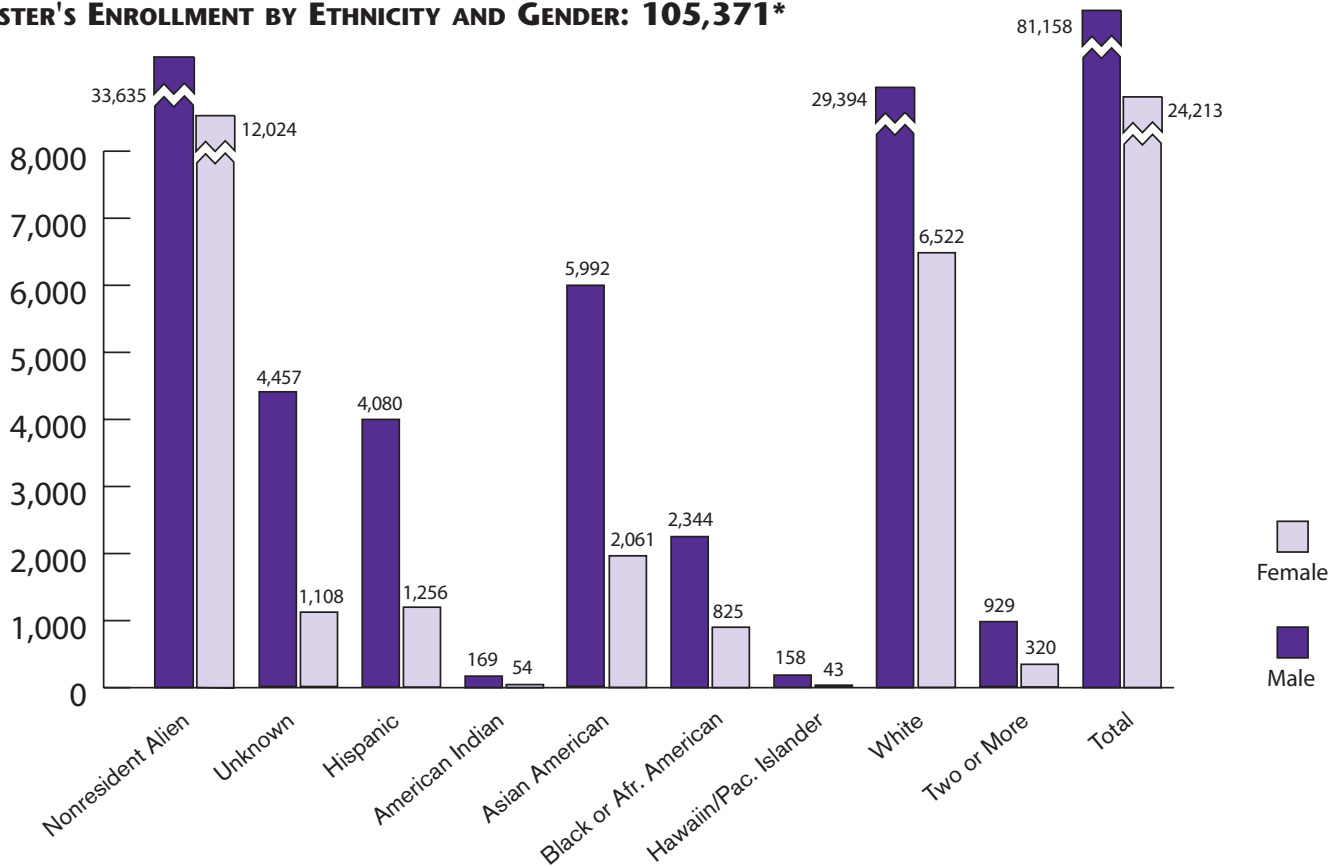
	2003	2004	2005	2006	2007	2008	2009	2010	2011
Nonresident Alien	46.0%	45.5%	42.6%	39.8%	38.7%	41.7%	44.1%	46.1%	44.4%
Permanent Resident	54.0%	54.5%	57.4%	60.2%	61.3%	58.3%	55.9%	53.9%	55.6%

MASTER'S DEGREES AWARDED BY ETHNICITY AND GENDER: 49,372*



* Includes 139 male and 70 female graduates from schools in Puerto Rico.

MASTER'S ENROLLMENT BY ETHNICITY AND GENDER: 105,371*



* Includes 184 Hispanic male and 76 Hispanic female enrolled students from schools in Puerto Rico.

PERCENTAGE OF MASTER'S DEGREES AWARDED TO WOMEN BY SCHOOL*

1. Yale University	51.4%
2. Loyola Marymount University	42.1%
3. Virginia Commonwealth University	40.9%
4. William Marsh Rice University	39.8%
5. North Carolina A&T State Univ.	38.1%
6. Catholic University of America	37.2%
7. University of Puerto Rico, Mayaguez	36.0%
8. South Dakota School of Mines and Tech.	35.1%
9. Northwestern University	34.5%
10. Duke University	34.4%
11. San Diego State University	34.2%
12. Polytechnic Univ. of Puerto Rico	32.1%
13. Tufts University	32.0%
14. University of Hawaii, Manoa	31.6%
14. University of Texas, Tyler	31.6%
16. Florida International University	30.9%
17. San Jose State University	30.8%
18. University of Rochester	30.7%
19. Stony Brook University	30.6%
19. University of Mississippi	30.6%

*Minimum of 35 master's degrees awarded.
211 schools fit this criterion.

PERCENTAGE OF DOCTORAL DEGREES AWARDED TO WOMEN BY SCHOOL*

1. Syracuse University	39.3%
2. Northeastern University	37.5%
3. University of California, Santa Cruz	37.1%
4. Stevens Institute of Technology	36.7%
5. University of Iowa	36.6%
6. Tufts University	35.5%
6. City College of the CUNY	35.5%
8. New Jersey Inst. of Technology	34.1%
9. University of South Florida	34.0%
10. Florida International University	32.3%
11. Virginia Commonwealth University	32.1%
12. Northwestern University	31.8%
13. University of Delaware	31.7%
14. Duke University	31.6%
15. University of Alabama, Huntsville	30.8%
16. Colorado School of Mines	30.5%
17. Rutgers University	29.8%
18. Yale University	29.6%
19. Stony Brook University	29.4%
20. University of Rochester	29.3%

*Minimum of 25 total doctoral degrees awarded.
111 schools fit this criterion.

GRADUATE ENROLLMENT BY SCHOOL*

1. University of Southern California	4,398
2. Georgia Institute of Technology	3,940
3. Stanford University	3,548
4. Johns Hopkins University	3,434
5. University of Michigan	3,184
6. Massachusetts Inst. of Technology	3,163
7. Univ. of Illinois, Urbana-Champaign	2,975
8. University of Florida	2,951
9. North Carolina State University	2,918
9. Texas A&M University	2,918
11. Purdue University	2,837
12. Arizona State University	2,692
13. Columbia University	2,501
14. Virginia Tech	2,278
15. University of Texas, Austin	2,194
16. Polytechnic Institute of NYU	2,114
17. University of Washington	2,030
18. University of Maryland, College Park	2,023
19. Carnegie Mellon University	1,997
20. University of Minnesota, Twin Cities	1,920
21. Pennsylvania State University	1,863
22. University of California, Berkeley	1,836
23. University of Texas, Dallas	1,809
24. University of California, Los Angeles	1,776
25. Cornell University	1,768
26. Ohio State University	1,738
27. University of Pennsylvania	1,704
28. Northwestern University	1,669
29. Northeastern University	1,653
30. University of California, San Diego	1,614
31. University of Colorado, Boulder	1,613
31. Stevens Institute of Technology	1,613
33. George Mason University	1,597
34. San Jose State University	1,593
35. University of Wisconsin, Madison	1,592
36. George Washington University	1,545
37. Colorado School of Mines	1,418
38. New Jersey Inst. of Technology	1,340
39. SUNY, Buffalo	1,324
40. Clemson University	1,317
41. University of Texas, Arlington	1,311
42. University of Central Florida	1,293
43. Stony Brook University	1,292
44. University of California, Davis	1,169
45. Drexel University	1,128
46. University of Illinois, Chicago	1,078
47. University of Utah	1,073
48. Missouri Univ. of Science and Tech.	1,057
49. Illinois Institute of Technology	1,033
50. Iowa State University	1,013

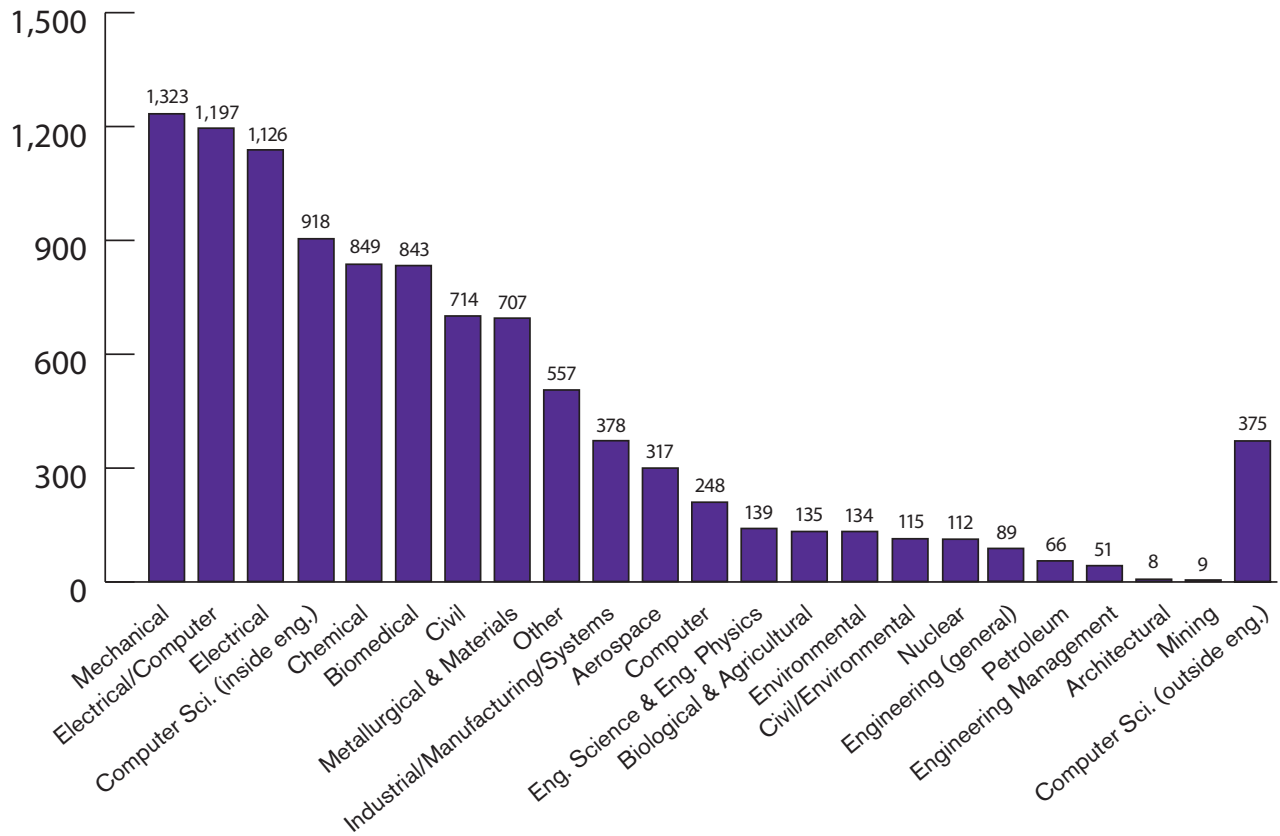
271 total schools reported.
*includes both full-time and part-time

ENGINEERING DOCTORAL DEGREES AWARDED BY SCHOOL

1. Georgia Institute of Technology	309
2. Stanford University	307
3. Univ. of Illinois, Urbana-Champaign	297
4. Massachusetts Inst. of Technology	288
5. University of Michigan	266
6. University of California, Berkeley	243
7. Texas A&M University	221
8. Purdue University	220
9. University of Texas, Austin	210
10. University of Florida	207
11. Virginia Tech	172
12. Pennsylvania State University	165
13. University of Southern California	154
14. University of California, Los Angeles	152
15. University of California, San Diego	150
16. North Carolina State University	145
17. Ohio State University	137
18. Northwestern University	129
19. Cornell University	128
20. University of Minnesota, Twin Cities	127
21. University of Wisconsin, Madison	123
22. University of Maryland, College Park	122
23. Arizona State University	121
24. University of Washington	114
24. University of California, Davis	114
26. Iowa State University	112
27. Carnegie Mellon University	111
28. Columbia University	98
29. Johns Hopkins University	95
30. Clemson University	88
31. University of Colorado, Boulder	86
32. University of California, Irvine	85
33. University of Virginia	84
34. University of Delaware	82
34. Princeton University	82
34. University of Utah	82
37. William Marsh Rice University	80
38. University of Texas, Dallas	79
39. University of California, Santa Barbara	77
40. University of California, Riverside	76
41. Rensselaer Polytechnic Institute	74
42. California Institute of Technology	73
43. University of Arizona	72
44. University of Illinois, Chicago	70
45. Stony Brook University	68
45. Michigan State University	68
47. University of Cincinnati	67
48. Drexel University	66
48. University of Texas, Arlington	66
50. Auburn University	65

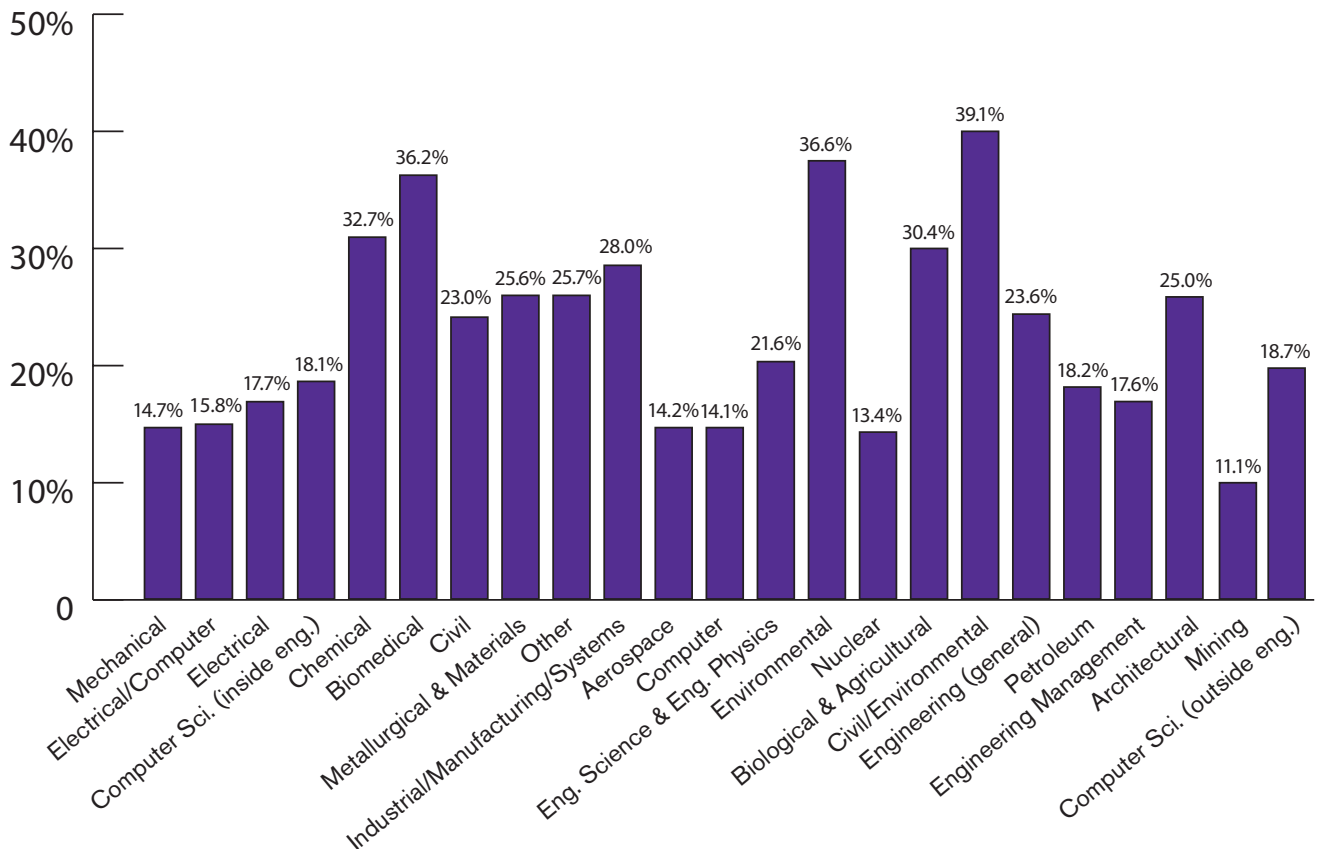
196 total schools reported.

DOCTORAL DEGREES AWARDED BY DISCIPLINE: 10,035*



*Total does not include computer science (outside engineering).

PERCENTAGE OF DOCTORAL DEGREES AWARDED TO WOMEN BY DISCIPLINE: 22.2%



DOCTORAL DEGREES AWARDED TO NONRESIDENT ALIENS BY SCHOOL

1. Univ. of Illinois, Urbana-Champaign	177
2. Georgia Institute of Technology	169
3. Texas A&M University	168
4. Stanford University	145
5. University of Florida	142
5. University of Michigan	142
7. Purdue University	136
8. Massachusetts Inst. of Technology	123
9. University of Texas, Austin	119
10. Pennsylvania State University	104
11. University of Southern California	93
12. Virginia Tech	92
13. Ohio State University	90
14. University of California, Berkeley	83
15. Iowa State University	82
16. Arizona State University	79
17. North Carolina State University	76
18. University of California, Los Angeles	75
19. University of Minnesota, Twin Cities	74
20. University of Maryland, College Park	68
21. Carnegie Mellon University	65
22. University of California, San Diego	63
22. Cornell University	63
24. Northwestern University	59
25. University of Wisconsin, Madison	57
26. University of Cincinnati	54
27. University of Delaware	53
27. Stony Brook University	53
29. Columbia University	52
30. Clemson University	51
31. Rensselaer Polytechnic Institute	50
32. University of California, Davis	49
32. University of Illinois, Chicago	49
32. Johns Hopkins University	49
35. Auburn University	48
35. University of Washington	48
37. Michigan State University	47
37. University of Texas, Arlington	47
37. University of Texas, Dallas	47
40. University of Connecticut	46
41. Princeton University	42
41. University of Tennessee, Knoxville	42
43. University of California, Santa Barbara	40
43. University of Central Florida	40
45. SUNY, Buffalo	39
46. University of Arizona	38
47. University of Utah	37
48. Northeastern University	34
48. University of Nebraska, Lincoln	34
48. University of Pittsburgh	34

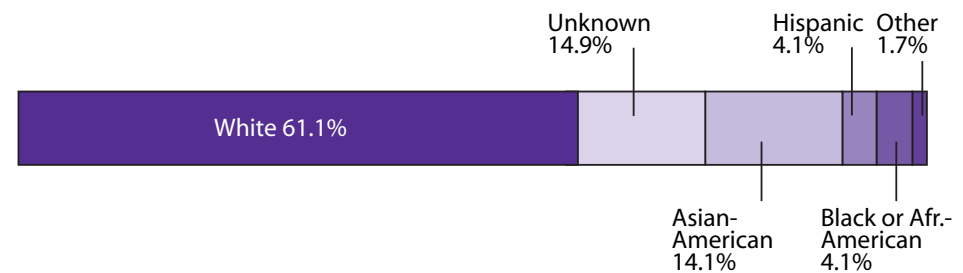
196 schools reported.

DOCTORAL DEGREES BY GENDER, 2012



	2003	2004	2005	2006	2007	2008	2009	2010	2011
Female	17.4%	17.8%	18.3%	20.2%	20.8%	21.1%	21.2%	22.9%	21.8%
Male	82.6%	82.2%	81.7%	79.8%	79.2%	78.9%	78.8%	77.1%	78.2%

DOCTORAL DEGREES BY ETHNICITY, 2012*



	2003	2004	2005	2006	2007	2008	2009	2010	2011
Black or African American	3.4%	3.8%	3.7%	3.7%	3.6%	3.2%	3.8%	4.4%	3.5%
Hispanic	3.6%	3.5%	3.7%	3.0%	3.5%	3.6%	3.8%	5.2%	4.2%
Other	11.9%	14.0%	14.2%	15.1%	18.7%	19.5%	17.6%	1.0%	1.6%
Asian American	13.4%	14.0%	14.4%	16.6%	12.0%	12.4%	13.2%	14.0%	15.1%
White	66.7%	64.7%	64.0%	61.6%	62.2%	61.3%	61.6%	65.7%	60.3%
Unknown							9.7%	5.3%	

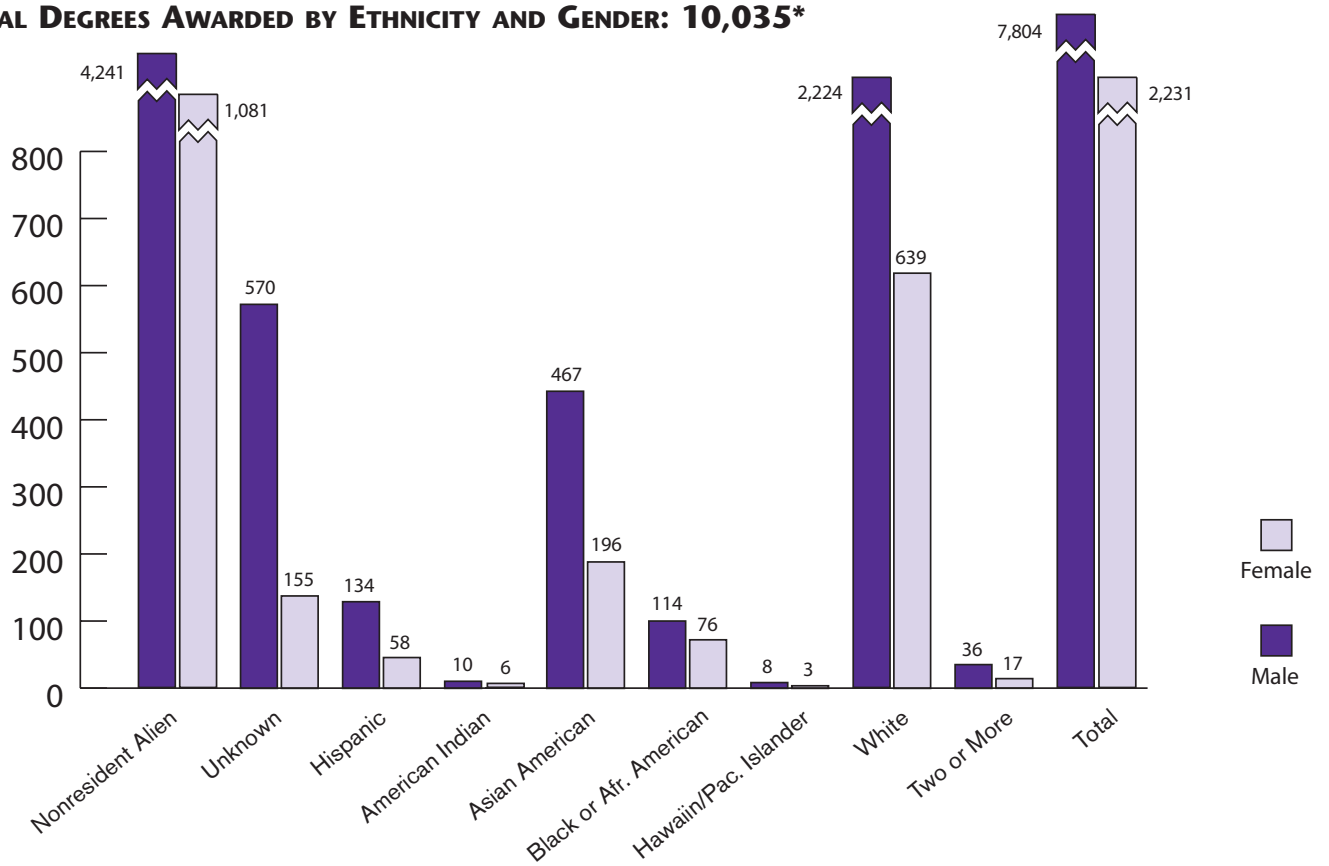
* Data on ethnicity does not include foreign nationals. American Indians (0.3%), Hawaiian/Pacific Islanders (0.3%) and Two or More (1.1%) are combined under Other.

DOCTORAL DEGREES BY RESIDENCY, 2012



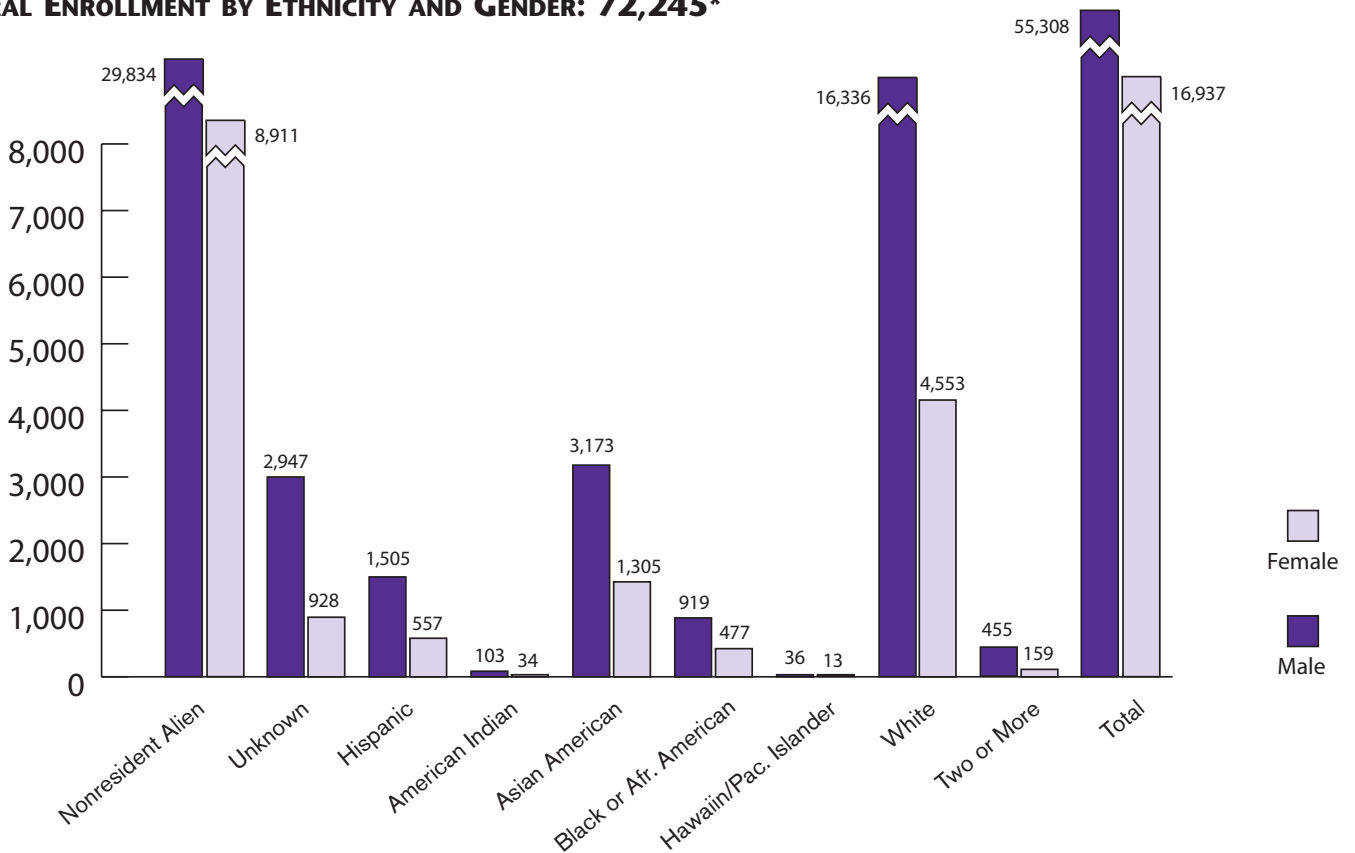
	2003	2004	2005	2006	2007	2008	2009	2010	2011
Nonresident Alien	55.2%	57.8%	59.4%	61.7%	61.6%	58.3%	55.1%	54.2%	54.2%
Permanent Resident	44.8%	42.2%	40.6%	38.3%	38.4%	41.7%	44.9%	45.8%	45.8%

DOCTORAL DEGREES AWARDED BY ETHNICITY AND GENDER: 10,035*



* Includes 5 male and 7 female graduates from University of Puerto Rico, Mayaguez.

DOCTORAL ENROLLMENT BY ETHNICITY AND GENDER: 72,245*



* Includes 51 Hispanic male and 40 Hispanic female enrolled students from schools in Puerto Rico.

ENGINEERING BACHELOR'S DEGREES AWARDED BY SCHOOL (EXCLUDING COMPUTER SCIENCE)

1. Georgia Institute of Technology	1,663
2. Pennsylvania State University	1,445
3. Purdue University	1,376
4. Univ. of Illinois, Urbana-Champaign	1,272
4. Texas A&M University	1,272
6. University of Michigan	1,194
7. Virginia Tech	1,164
8. North Carolina State University	1,146
9. University of Texas, Austin	1,071
10. California Poly. State U., SLO	1,010
11. University of Florida	1,000
12. Ohio State University	980
13. University of California, Berkeley	862
14. Iowa State University	859
15. Missouri Univ. of Science and Tech.	802
16. University of Minnesota, Twin Cities	777
17. Colorado School of Mines	720
18. University of Washington	711
19. Rensselaer Polytechnic Institute	710
20. University of Maryland, College Park	703
21. Rutgers University	679
22. University of California, San Diego	674
23. University of Central Florida	665
24. Arizona State University	664
25. University of Wisconsin, Madison	660
26. Cornell University	658
27. California State Poly. U., Pomona	647
28. Michigan Technological University	646
29. Louisiana State University	630
30. University of California, Los Angeles	617
31. University of Puerto Rico, Mayaguez	609
32. Clemson University	595
33. University of Colorado, Boulder	589
34. Oregon State University	575
35. SUNY, Buffalo	553
36. Worcester Polytechnic Institute	550
37. University of California, Davis	549
38. Texas Tech University	537
39. University of California, Irvine	525
40. University of Virginia	501
41. Massachusetts Inst. of Technology	500
42. West Virginia University	490
43. Drexel University	489
44. University of Nebraska, Lincoln	474
45. University of Pittsburgh	466
46. University of Arizona	465
47. Auburn University	463
48. University of South Florida	445
49. University of Tennessee, Knoxville	443
50. Michigan State University	441

352 schools reported.

ENGINEERING MASTER'S DEGREES AWARDED BY SCHOOL (EXCLUDING COMPUTER SCIENCE)

1. University of Southern California	1,224
2. University of Michigan	1,093
3. Georgia Institute of Technology	1,044
4. Stanford University	967
5. University of Florida	965
6. San Jose State University	751
7. Stevens Institute of Technology	749
8. Massachusetts Inst. of Technology	695
9. Johns Hopkins University	685
10. Carnegie Mellon University	684
11. Columbia University	675
12. Cornell University	642
13. Polytechnic Institute of NYU	609
14. Purdue University	577
14. North Carolina State University	577
16. Arizona State University	568
17. New Jersey Inst. of Technology	525
18. Texas A&M University	515
19. Univ. of Illinois, Urbana-Champaign	513
20. University of California, Berkeley	451
21. University of Texas, Austin	450
22. Missouri Univ. of Science and Tech.	446
23. University of Washington	444
24. University of Colorado, Boulder	442
25. George Washington University	436
26. Virginia Tech	429
27. University of California, Los Angeles	426
27. Illinois Institute of Technology	426
29. University of Maryland, College Park	423
30. George Mason University	415
30. University of Wisconsin, Madison	415
32. Northeastern University	413
33. University of Pennsylvania	385
34. University of Central Florida	380
35. Worcester Polytechnic Institute	372
35. Ohio State University	372
37. Pennsylvania State University	361
38. University of Texas, Arlington	350
39. Northwestern University	331
40. Colorado School of Mines	327
41. University of Minnesota, Twin Cities	323
42. Santa Clara University	317
43. SUNY, Buffalo	306
44. Drexel University	305
45. Southern Methodist University	302
46. University of California, San Diego	290
47. Air Force Institute of Technology	278
48. Iowa State University	276
49. Clemson University	270
50. Florida International University	259

264 schools reported.

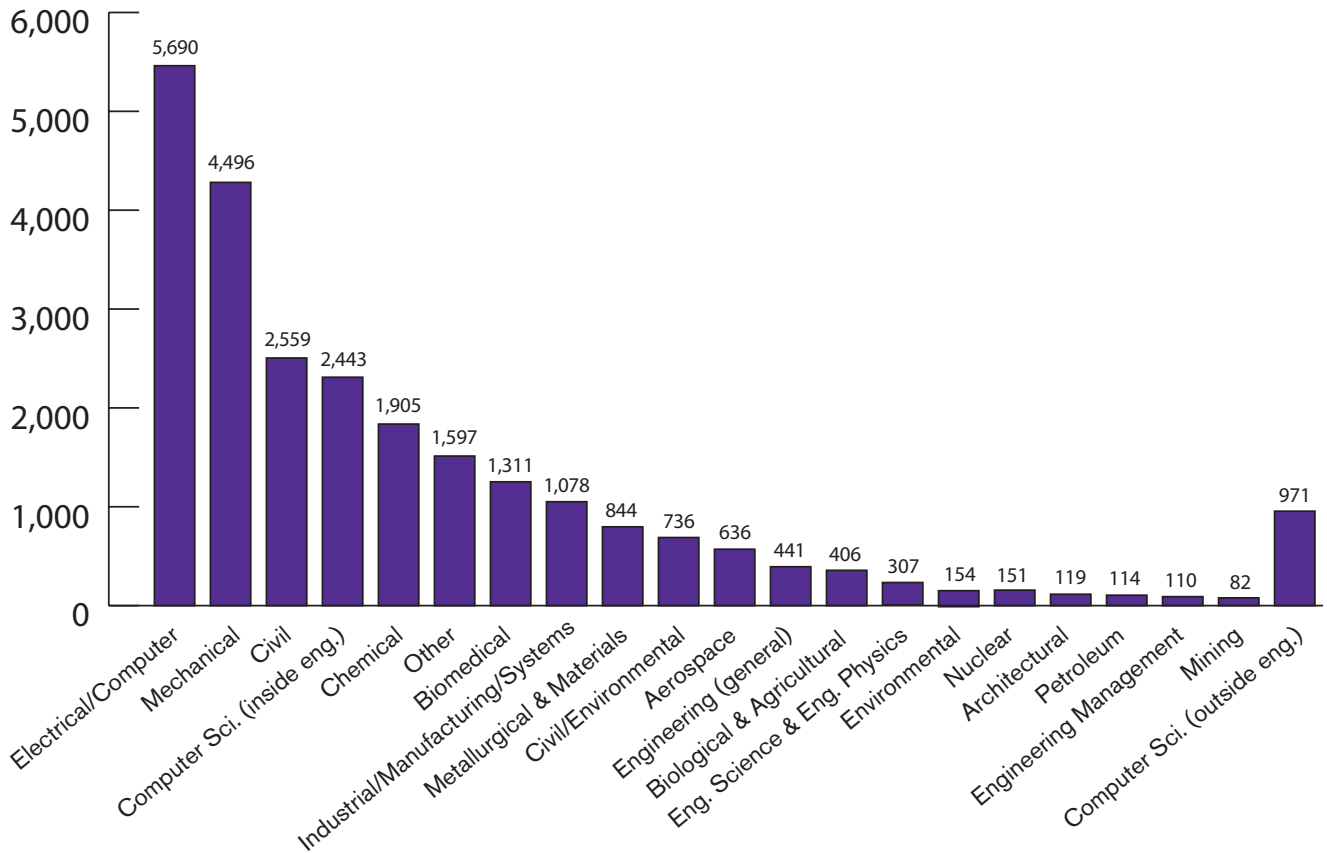
ENGINEERING DOCTORAL DEGREES AWARDED BY SCHOOL (EXCLUDING COMPUTER SCIENCE)

1. Georgia Institute of Technology	309
2. Massachusetts Inst. of Technology	288
3. Stanford University	277
4. University of Michigan	266
5. Univ. of Illinois, Urbana-Champaign	236
6. Purdue University	220
7. University of California, Berkeley	218
8. University of Texas, Austin	210
9. University of Florida	207
10. Texas A&M University	194
11. Virginia Tech	156
12. Pennsylvania State University	141
13. University of Southern California	130
13. North Carolina State University	130
15. University of California, Los Angeles	124
16. University of Wisconsin, Madison	123
17. University of Maryland, College Park	122
17. Ohio State University	122
19. Northwestern University	121
20. University of California, San Diego	116
21. University of Washington	114
22. Iowa State University	112
22. University of Minnesota, Twin Cities	112
24. Carnegie Mellon University	111
25. Cornell University	108
26. Arizona State University	106
27. University of California, Davis	95
28. University of California, Irvine	83
28. Johns Hopkins University	83
30. University of Colorado, Boulder	80
30. Clemson University	80
32. Columbia University	79
33. Rensselaer Polytechnic Institute	74
33. William Marsh Rice University	74
35. University of Arizona	72
35. California Institute of Technology	72
37. University of Delaware	71
38. University of Cincinnati	67
38. University of Utah	67
38. University of Virginia	67
41. Princeton University	64
41. Drexel University	64
43. Univ. of California, Santa Barbara	63
44. Colorado School of Mines	59
45. University of Tennessee, Knoxville	58
46. University of California, Riverside	57
46. Univ. of Massachusetts, Amherst	57
46. Rutgers University	57
49. University of Illinois, Chicago	56
49. University of Notre Dame	56

194 schools reported.

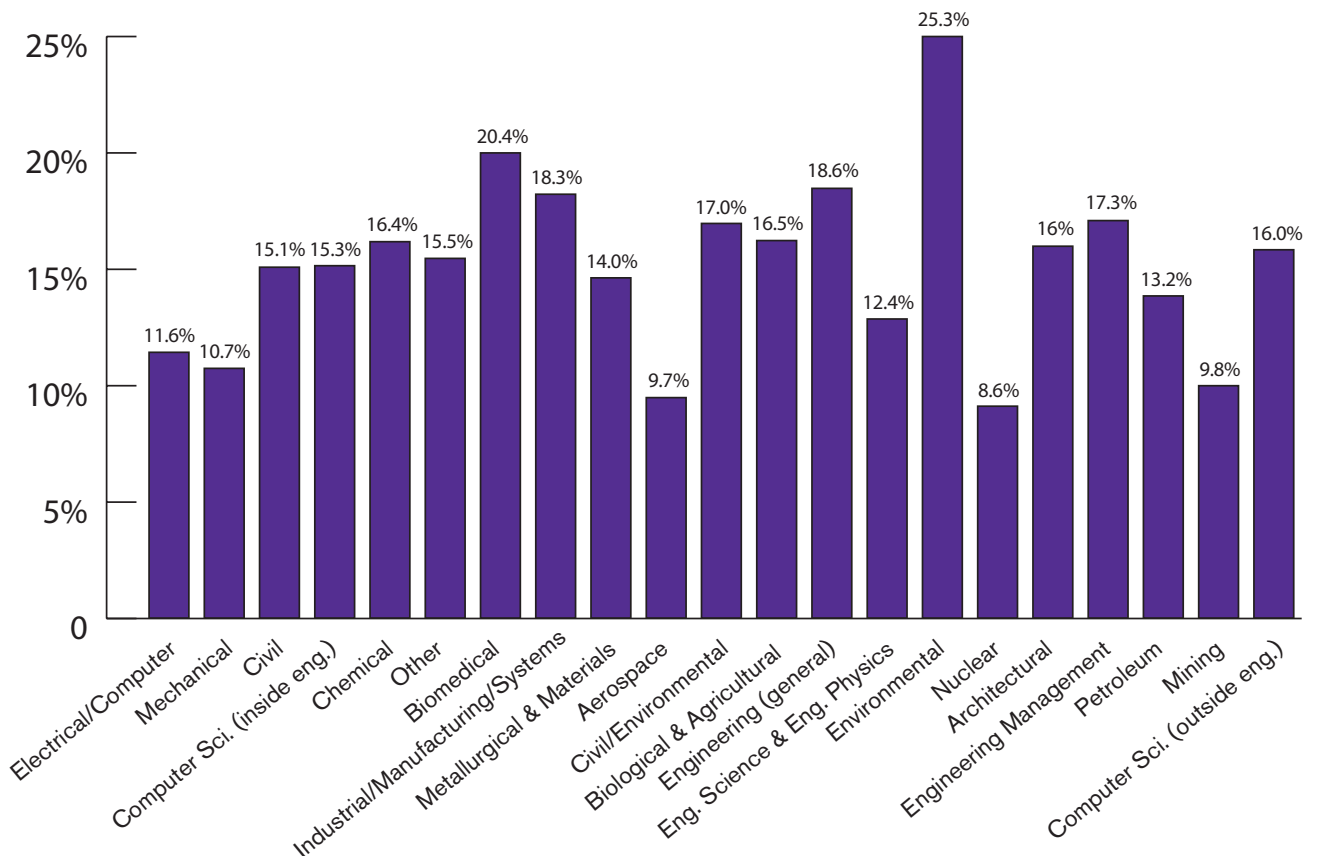
Note: All enrollment and degree data in this book includes computer science programs administered by the engineering colleges. This page displays the largest degree programs at each level without the computer science programs.

NUMBER OF TENURED/TENURE-TRACK FACULTY BY DISCIPLINE: 25,179*



*Total does not include computer science (outside engineering).

PERCENTAGE OF WOMEN TENURED/TENURE-TRACK FACULTY BY DISCIPLINE: 14.0%

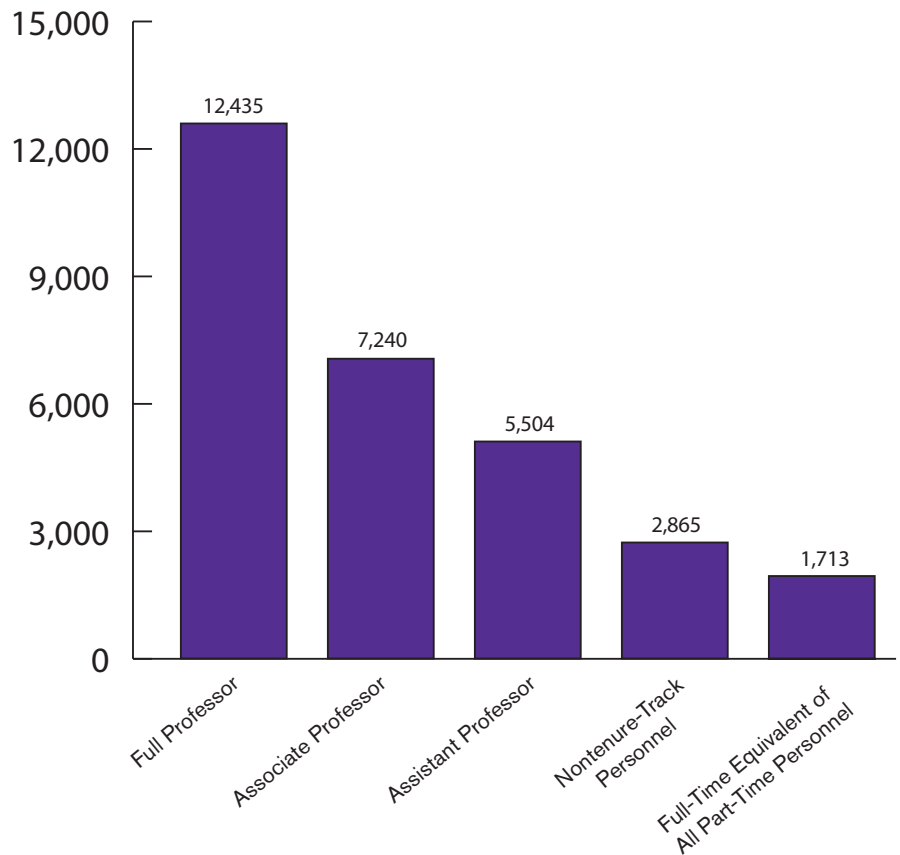


TENURED/TENURE-TRACK FACULTY MEMBERS BY SCHOOL

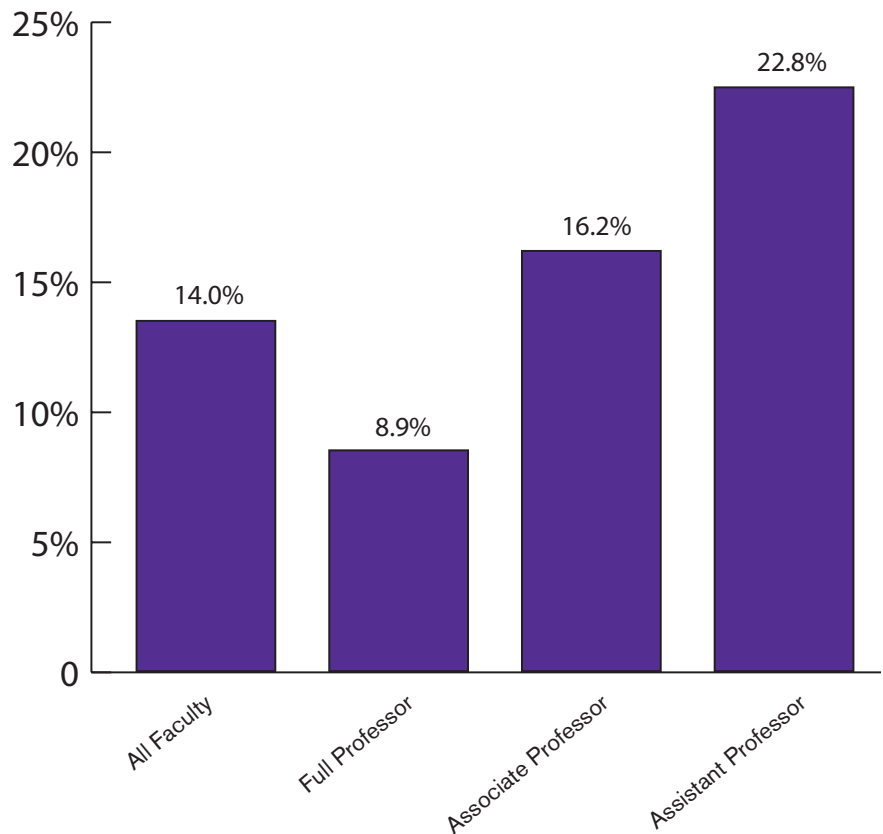
1. Georgia Institute of Technology	426
2. Univ. of Illinois, Urbana-Champaign	403
3. Massachusetts Inst. of Technology	383
4. University of Michigan	366
5. Pennsylvania State University	353
6. Virginia Tech	331
7. North Carolina State University	328
8. Texas A&M University	319
9. Purdue University	297
10. University of Texas, Austin	274
11. Ohio State University	261
12. University of Florida	260
13. Cornell University	242
14. Iowa State University	235
15. University of Washington	231
16. University of California, Berkeley	225
17. Stanford University	217
18. University of Minnesota, Twin Cities	216
19. Arizona State University	209
20. Clemson University	205
21. University of California, Davis	202
22. University of Puerto Rico, Mayaguez	191
23. University of California, San Diego	189
24. Northwestern University	187
24. University of Maryland, College Park	187
26. University of Wisconsin, Madison	186
27. Colorado School of Mines	181
28. University of Southern California	177
29. University of Nebraska, Lincoln	174
30. Michigan State University	167
31. University of Arizona	163
31. University of Colorado, Boulder	163
33. Wentworth Institute of Technology	158
33. University of Tennessee, Knoxville	158
35. University of Utah	156
36. University of California, Los Angeles	154
37. Johns Hopkins University	153
37. Carnegie Mellon University	153
39. Missouri Univ. of Science and Tech.	150
39. Columbia University	150
41. Auburn University	148
42. University of Kentucky	146
42. SUNY, Buffalo	146
44. Rutgers University	142
45. California Poly. State U., SLO	141
46. Oregon State University	136
47. Michigan Technological University	134
47. University of Texas, Arlington	134
49. University of Delaware	133
50. University of Connecticut	132
50. Princeton University	132

357 schools reported.

NUMBER OF TEACHING PERSONNEL BY RANK: 29,757



PERCENTAGE OF WOMEN TENURED/TENURE-TRACK FACULTY BY LEVEL



**PERCENTAGE OF WOMEN TENURED/
TENURE-TRACK FACULTY BY
SCHOOL***

1. Franklin W. Olin College of Eng.	36.4%
2. Santa Clara University	33.3%
3. Rowan University	30.3%
4. Oakland University	29.6%
5. University of Louisiana, Lafayette	29.3%
6. California State Univ., Los Angeles	26.7%
6. University of the Pacific	26.7%
8. OHSU Dept. of Science & Engineering	26.2%
9. University of Vermont	25.0%
9. University of Hartford	25.0%
11. Univ. of Maryland, Baltimore County	24.6%
12. Boise State University	24.5%
13. San Jose State University	23.6%
14. New York Institute of Technology	23.3%
14. Miami University	23.3%
16. Tufts University	23.0%
17. William Marsh Rice University	22.9%
18. Bucknell University	22.7%
19. University of New Haven	22.6%
19. Mercer University	22.6%
21. Arizona State U., Coll of Tech. & Innov.	21.4%
22. California State Univ., Long Beach	20.8%
23. University of New Hampshire	20.7%
24. University of Washington	20.3%

24. Villanova University	20.3%
26. U.S. Coast Guard Academy	20.0%
26. Grand Valley State University	20.0%
28. Drexel University	19.8%
29. Western Michigan University	19.2%
30. University of California, Davis	18.8%
31. University of Massachusetts, Lowell	18.4%
31. University of Colorado, Boulder	18.4%
33. University of Puerto Rico, Mayaguez	18.3%
33. Clarkson University	18.3%
35. Arizona State University	18.2%
35. Polytechnic Univ. of Puerto Rico	18.2%
37. Kettering University	18.0%
37. Rose-Hulman Inst. of Technology	18.0%
37. Univ. of Massachusetts, Dartmouth	18.0%
40. George Washington University	17.9%
40. Jackson State University	17.9%
42. California State University, Sacramento	17.8%
43. U.S. Naval Academy	17.7%
43. California Poly. State U., SLO	17.7%
43. Wentworth Institute of Technology	17.7%
46. Lawrence Technological University	17.6%
46. California State Poly. U., Pomona	17.6%
46. Milwaukee School of Engineering	17.6%
46. Clemson University	17.6%
50. University of California, Santa Cruz	17.5%

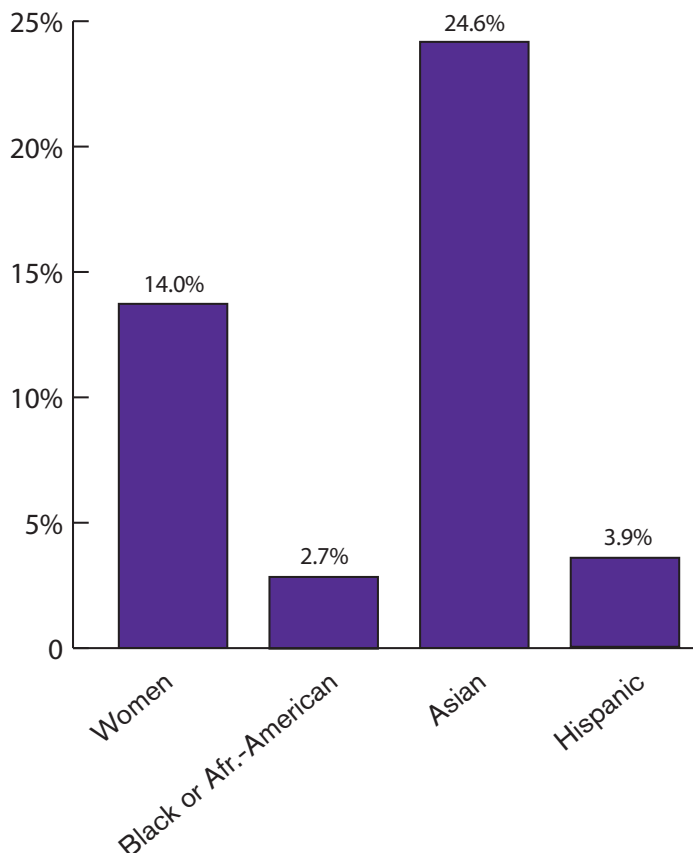
**WOMEN TENURED/TENURE-TRACK
FACULTY BY SCHOOL**

1. Georgia Institute of Technology	67
2. Massachusetts Inst. of Technology	63
3. University of Michigan	61
4. Pennsylvania State University	54
5. Univ. of Illinois, Urbana-Champaign	51
6. Purdue University	50
7. University of Washington	47
8. Texas A&M University	45
8. Virginia Tech	45
10. North Carolina State University	39
11. University of California, Davis	38
11. Arizona State University	38
13. Stanford University	37
13. Ohio State University	37
15. Clemson University	36
15. Cornell University	36
15. University of Texas, Austin	36
18. University of Puerto Rico, Mayaguez	35
18. Iowa State University	35
20. University of California, Berkeley	32

357 schools reported.

*Minimum of 25 faculty members.
246 schools fit this criterion.

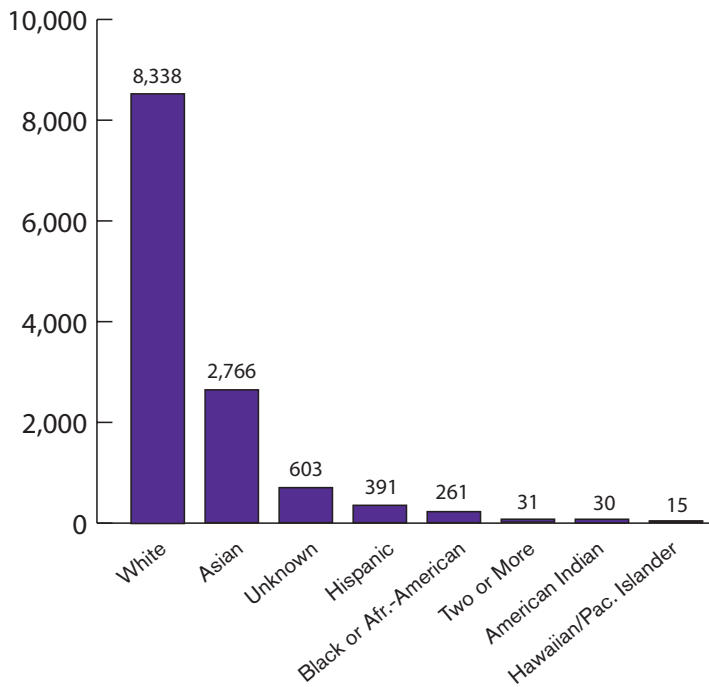
PERCENTAGE OF WOMEN AND MINORITY FACULTY, 2003-2012*



	Women	African-American	Asian	Hispanic
2003	9.9%	2.2%	19.2%	3.1%
2004	10.4%	2.3%	20.2%	3.2%
2005	10.6%	2.4%	20.9%	3.2%
2006	11.3%	2.4%	22.0%	3.3%
2007	11.8%	2.5%	22.6%	3.4%
2008	12.3%	2.5%	22.7%	3.5%
2009	12.7%	2.5%	23.3%	3.5%
2010	13.2%	2.5%	23.9%	3.6%
2011	13.8%	2.5%	21.6%	3.7%

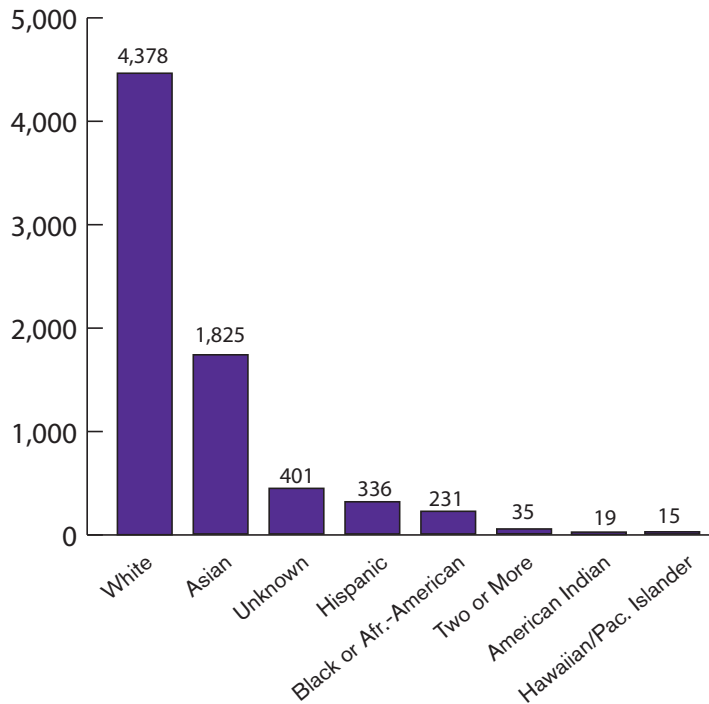
*Note: Includes faculty data from University of Puerto Rico, Mayaguez, Polytechnic University of Puerto Rico and Turabo University

NUMBER OF FULL PROFESSORS BY RACE/ETHNICITY (TEACHING): 12,435*



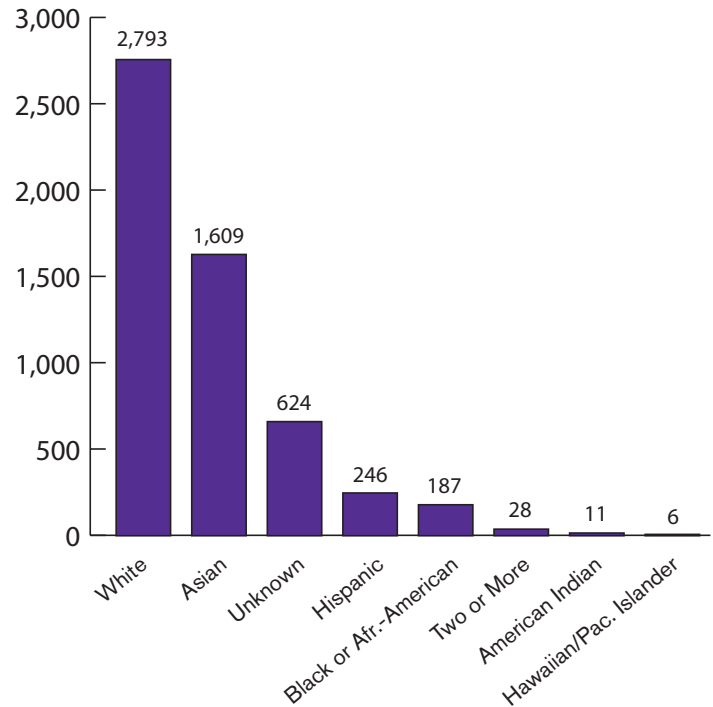
**Note: Includes 136 Hispanic faculty from University of Puerto Rico, Mayaguez, Polytechnic University of Puerto Rico and Turabo University.*

NUMBER OF ASSOCIATE PROFESSORS BY RACE/ETHNICITY (TEACHING): 7,240*



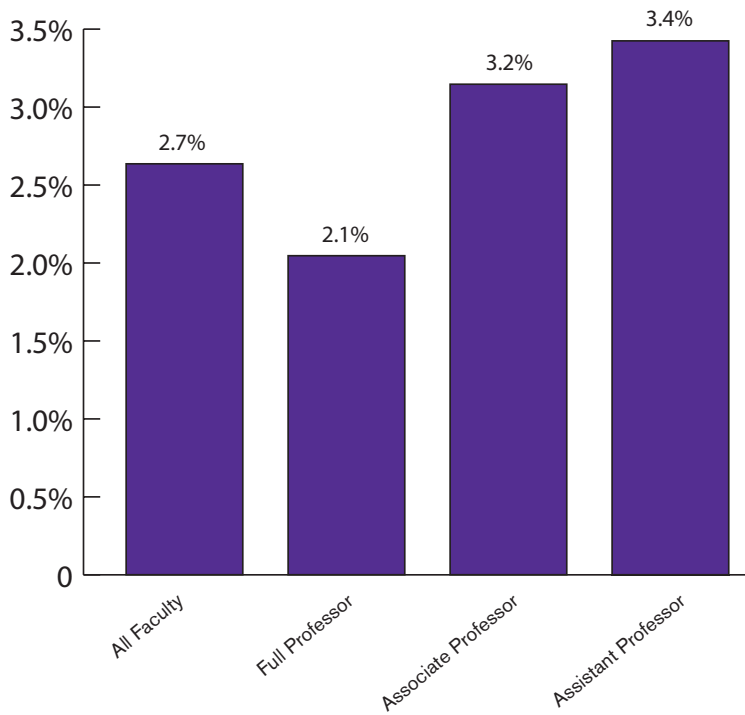
**Note: Includes 84 Hispanic faculty from University of Puerto Rico, Mayaguez, Polytechnic University of Puerto Rico and Turabo University.*

NUMBER OF ASSISTANT PROFESSORS BY RACE/ETHNICITY (TEACHING): 5,504*

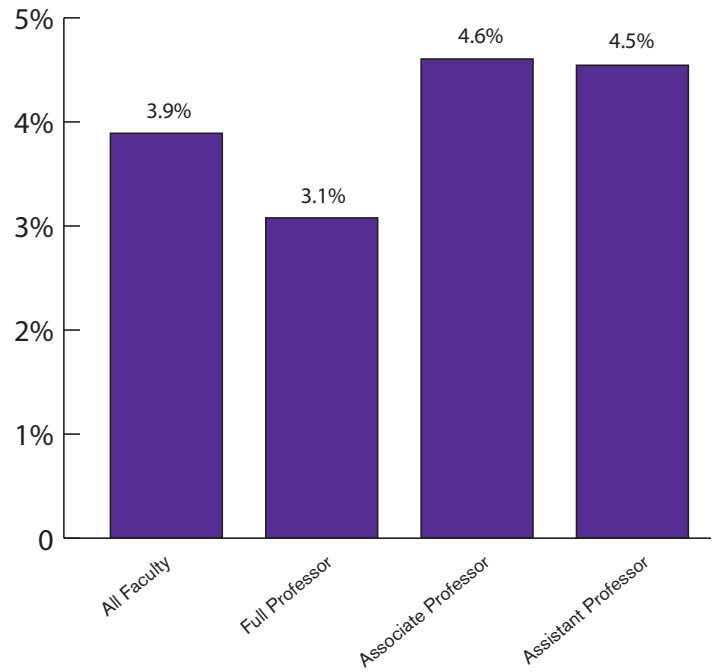


**Note: Includes 65 Hispanic faculty from University of Puerto Rico, Mayaguez, Polytechnic University of Puerto Rico and Turabo University.*

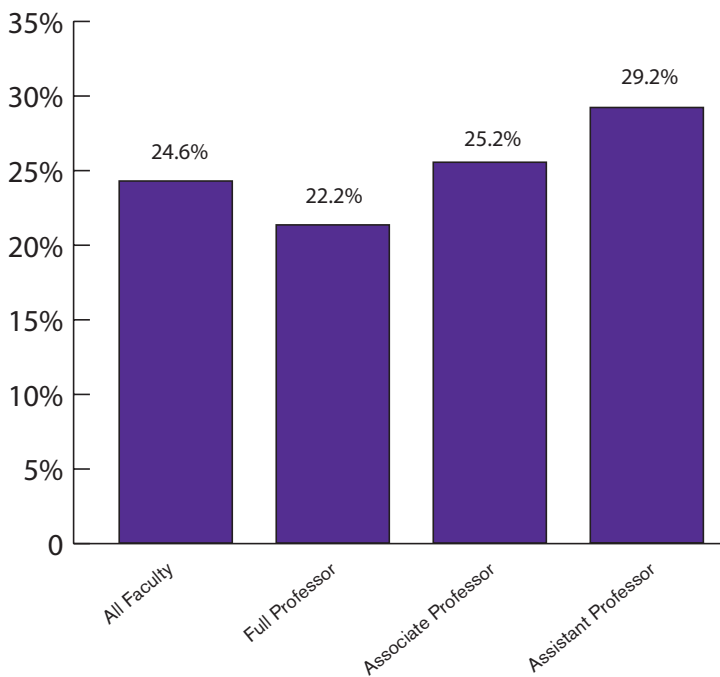
PERCENTAGE OF AFRICAN-AMERICAN TENURED/TENURE-TRACK FACULTY BY LEVEL*



PERCENTAGE OF HISPANIC TENURED/TENURE-TRACK FACULTY BY LEVEL*



PERCENTAGE OF ASIAN TENURED/TENURE-TRACK FACULTY BY LEVEL*



* Includes faculty from University of Puerto Rico, Mayaguez, Polytechnic University of Puerto Rico and Turabo University

**AFRICAN-AMERICAN TENURED/
TENURE-TRACK FACULTY BY
SCHOOL**

1. Wright State University	40
2. Howard University	34
3. North Carolina A&T State Univ.	21
4. Georgia Institute of Technology	19
4. Prairie View A&M University	19
6. Southern University and A&M College	18
7. FAMU-FSU College of Engineering	15
8. Morgan State University	14
9. North Carolina State University	12
10. Massachusetts Inst. of Technology	11
10. University of Michigan	11
12. Pennsylvania State University	10
12. Cornell University	10
14. Univ. of Illinois, Urbana-Champaign	9
14. Univ. of Tennessee, Chattanooga	9
16. Virginia Tech	8
16. University of Florida	8
16. City College of the CUNY	8
16. University of the District of Columbia	8
20. New Jersey Inst. of Technology	7
20. University of Missouri, Kansas City	7
20. Jackson State University	7

357 schools reported.

**ASIAN TENURED/TENURE-TRACK
FACULTY BY SCHOOL**

1. Georgia Institute of Technology	100
2. Univ. of Illinois, Urbana-Champaign	99
3. Texas A&M University	96
4. Ohio State University	85
5. Purdue University	84
6. University of Michigan	81
6. University of Florida	81
8. North Carolina State University	76
9. Iowa State University	75
10. Arizona State University	70
11. Virginia Tech	67
12. SUNY, Buffalo	64
12. University of Texas, Arlington	64
14. Michigan State University	63
15. Pennsylvania State University	60
15. University of Texas, Austin	60
15. University of Nebraska, Lincoln	60
15. University of California, Los Angeles	60
19. University of Texas, Dallas	58
20. University of Washington	57

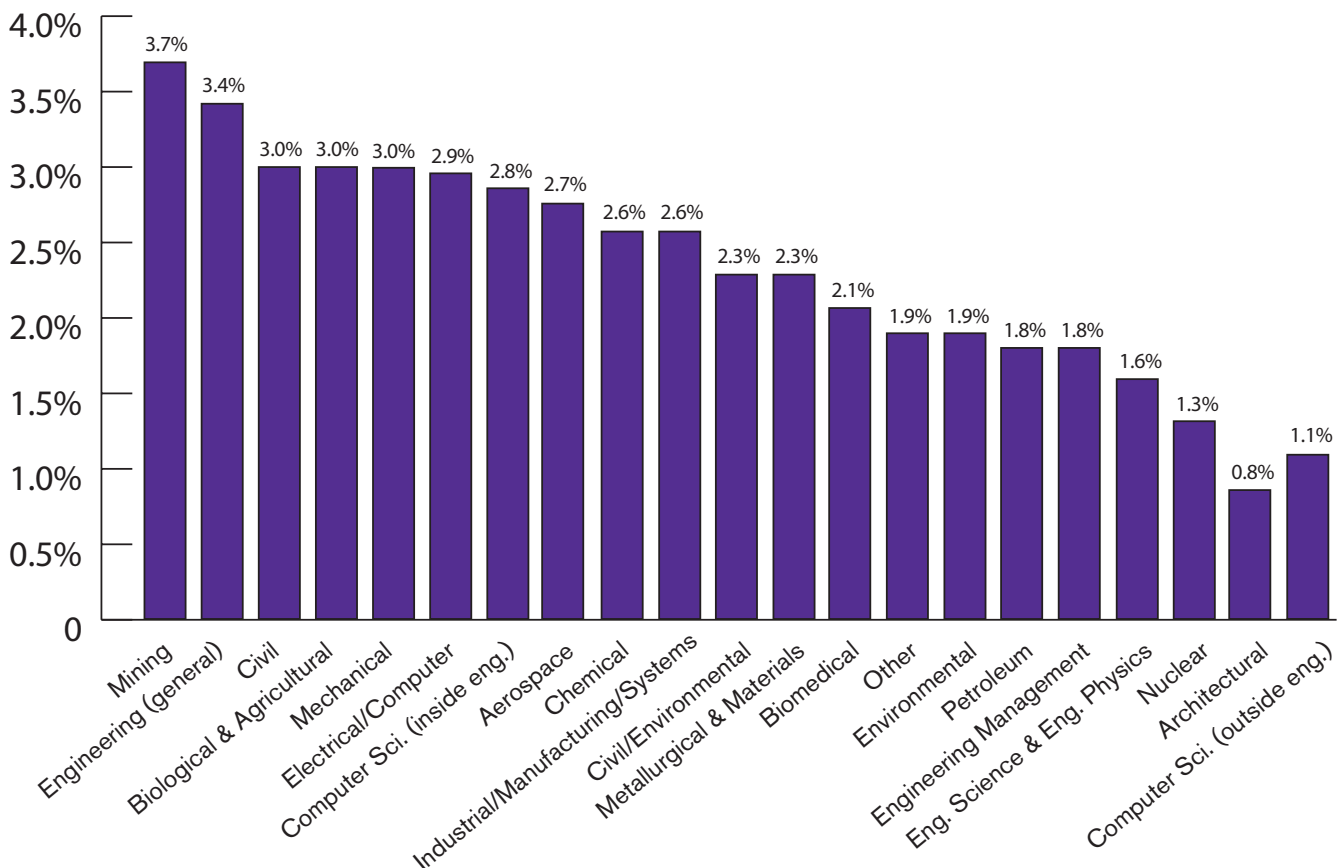
357 schools reported.

**HISPANIC TENURED/TENURE-
TRACK FACULTY BY SCHOOL**

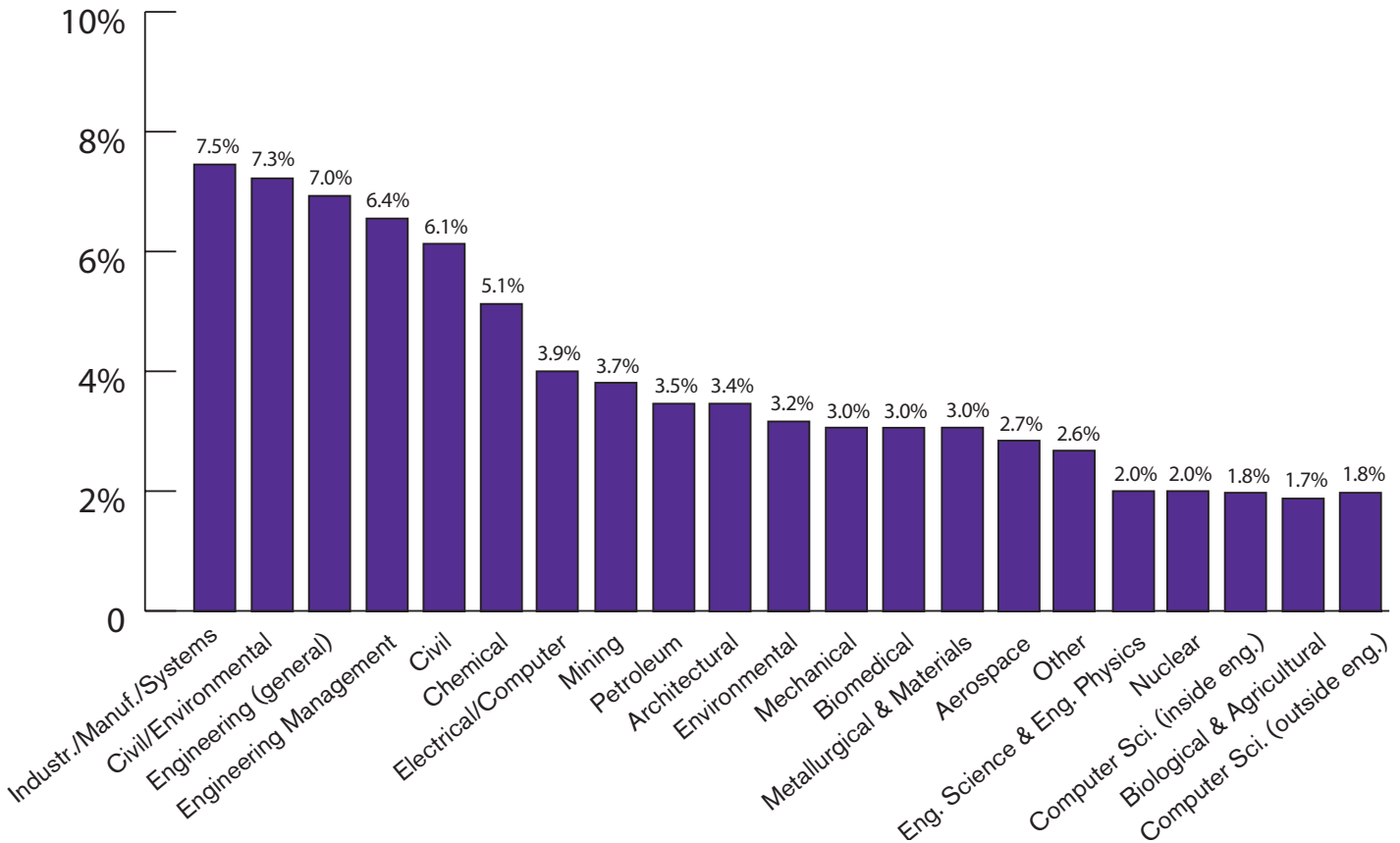
1. University of Puerto Rico, Mayaguez	174
2. Polytechnic Univ. of Puerto Rico	61
3. University of Texas, El Paso	24
4. Texas A&M University	23
5. Turabo University	17
6. Massachusetts Inst. of Technology	15
6. Pennsylvania State University	15
6. Virginia Tech	15
9. Purdue University	14
10. University of Texas, Austin	13
11. Georgia Institute of Technology	12
11. Univ. of Illinois, Urbana-Champaign	12
13. University of Florida	11
13. Stanford University	11
13. Arizona State University	11
16. New Mexico State University	10
17. Ohio State University	9
17. University of California, Berkeley	9
17. University of Colorado, Boulder	9
17. University of South Florida	9

357 schools reported.

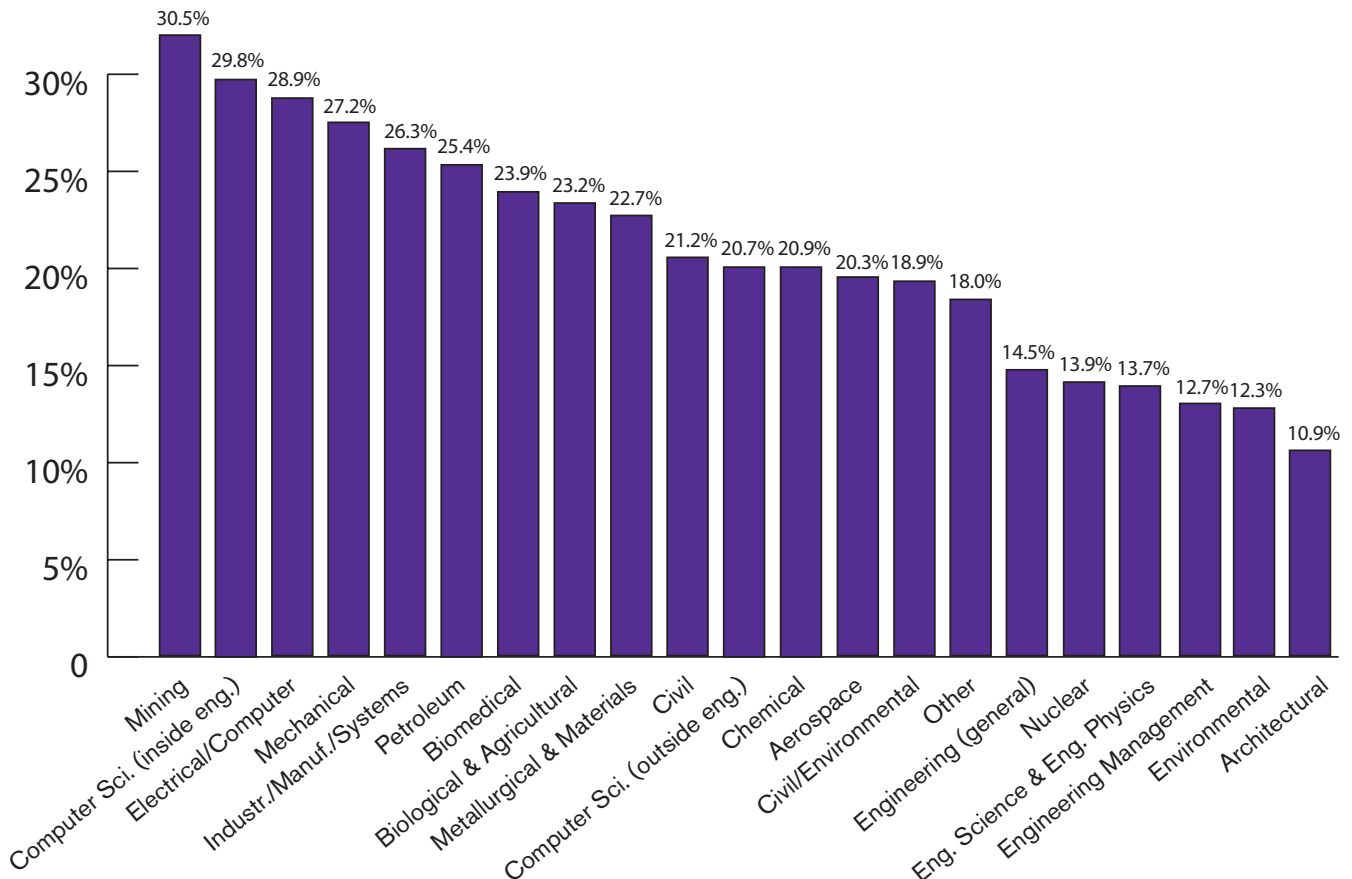
PERCENTAGE OF AFRICAN-AMERICAN TENURED/TENURE-TRACK FACULTY BY DISCIPLINE: 2.7%



PERCENTAGE OF HISPANIC TENURED/TENURE-TRACK FACULTY BY DISCIPLINE: 3.9%



PERCENTAGE OF ASIAN-AMERICAN TENURED/TENURE-TRACK FACULTY BY DISCIPLINE: 24.6%



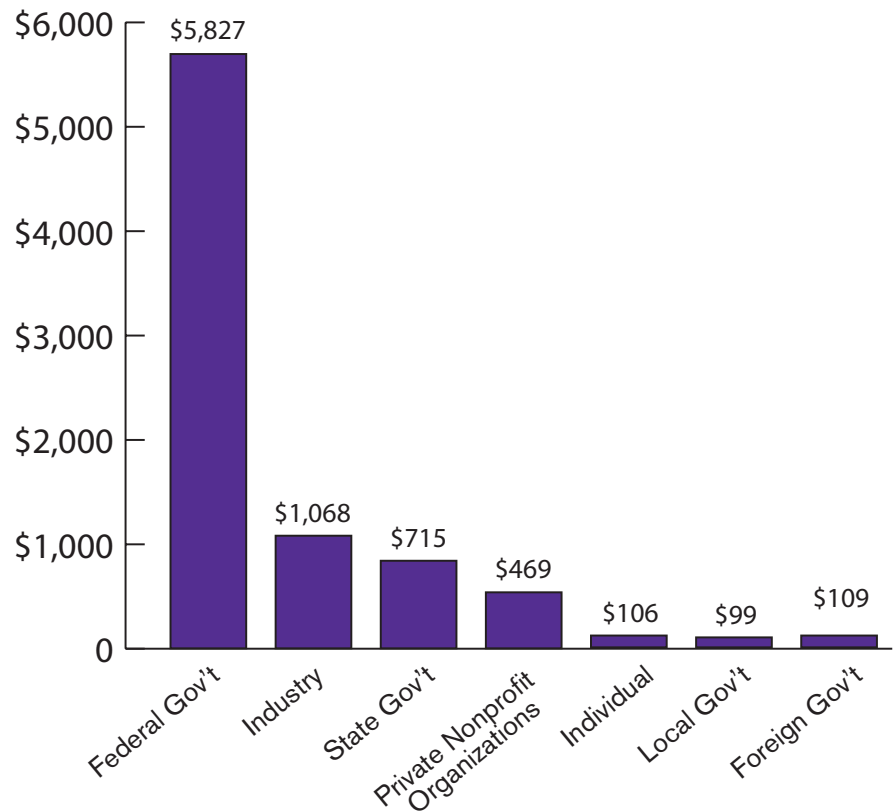
RESEARCH EXPENDITURES BY SCHOOL

(IN MILLIONS)

1. Massachusetts Inst. of Technology	\$362.8
2. Texas A&M University	\$282.3
3. Univ. of Illinois, Urbana-Champaign	\$236.4
4. Purdue University	\$222.3
5. Carnegie Mellon University	\$204.4
6. University of Michigan	\$196.0
7. Georgia Institute of Technology	\$195.4
8. Stanford University	\$193.4
9. University of California, Berkeley	\$192.5
10. University of Southern California	\$173.7
11. University of Texas, Austin	\$163.9
12. University of California, San Diego	\$163.6
13. University of Maryland, College Park	\$156.1
14. North Carolina State University	\$154.0
15. Pennsylvania State University	\$152.3
16. Virginia Tech	\$151.4
17. University of Wisconsin, Madison	\$137.1
18. Cornell University	\$132.4
19. Ohio State University	\$116.8
20. University of Washington	\$113.0
21. Northwestern University	\$111.6
22. University of Pennsylvania	\$107.5
23. University of Minnesota, Twin Cities	\$97.3
24. University of California, Los Angeles	\$93.3
25. University of Rochester	\$92.9
26. Princeton University	\$89.0
26. California Institute of Technology	\$89.0
28. Iowa State University	\$83.9
28. University of Pittsburgh	\$83.9
30. University of Utah	\$81.5
31. Johns Hopkins University	\$78.1
32. University of Dayton	\$77.7
33. University of Colorado, Boulder	\$77.6
34. Arizona State University	\$75.9
35. University of California, Davis	\$74.2
36. Duke University	\$74.0
37. Boston University	\$71.9
38. University of Virginia	\$71.4
39. University of California, Irvine	\$68.9
40. Vanderbilt University	\$66.5
41. University of Florida	\$65.6
42. Colorado State University	\$64.0
43. University of Central Florida	\$63.6
44. SUNY, Buffalo	\$63.5
45. Auburn University	\$60.1
46. University of Tennessee, Knoxville	\$59.0
47. University of Arizona	\$58.3
48. Colorado School of Mines	\$55.5
48. Rutgers University	\$55.5
50. Michigan State University	\$53.4

206 total schools reported.

RESEARCH EXPENDITURES BY SOURCE IN MILLIONS OF DOLLARS: \$8,395



COMPUTER SCIENCE RESEARCH EXPENDITURES LOCATED OUTSIDE OF ENGINEERING BY SCHOOL

(IN MILLIONS)

1. Carnegie Mellon University	\$98.5
2. Georgia Institute of Technology	\$29.7
3. University of Maryland, College Park	\$25.7
4. University of Wisconsin, Madison	\$23.2
5. University of Texas, Austin	\$22.3
6. Univ. of Massachusetts, Amherst	\$19.4
7. Purdue University	\$17.4
8. University of California, Irvine	\$16.1
9. University of Alabama, Huntsville	\$11.0
10. Northeastern University	\$8.1
11. Univ. of North Carolina, Charlotte	\$6.3
12. Duke University	\$6.1
13. Rensselaer Polytechnic Institute	\$5.5
14. University of Arizona	\$5.0
15. Rutgers University	\$4.5
16. University of Houston	\$4.1
17. Worcester Polytechnic Institute	\$3.2
18. Boston University	\$2.9
19. University of Pittsburgh	\$2.8
20. Dartmouth College	\$2.7

35 schools reported.
*Schools are not required to report this data to ASEE.

HIGHEST RATIO OF BACHELOR'S DEGREE RECIPIENTS TO FACULTY BY SCHOOL*

1. Indiana Institute of Technology	9.29
2. California State Poly. U., Pomona	8.74
3. California Poly. State U., SLO	7.69
4. Pennsylvania State University, Erie	6.94
5. San Jose State University	6.91
6. University of Central Florida	6.84
7. California State Univ., Los Angeles	6.62
8. Worcester Polytechnic Institute	6.25
9. U.S. Naval Academy	6.18
10. California State University, Fresno	6.14
11. Manhattan College	6.11
12. Gonzaga University	6.04
13. Northern Arizona University	5.84
14. California State University, Chico	5.82
15. San Francisco State University	5.72
16. University of Vermont	5.69
17. Florida International University	5.65
18. North Dakota State University	5.64
19. California State Univ., Long Beach	5.63
19. Widener University	5.63

**Minimum of 50 degrees awarded
268 schools fit the criteria for this table.
Faculty refers to teaching faculty.*

LOWEST RATIO OF BACHELOR'S DEGREE RECIPIENTS TO FACULTY BY SCHOOL*

1. Wayne State University	1.04
2. Howard University	1.32
3. George Washington University	1.33
3. Yale University	1.33
5. University of Georgia	1.44
6. California Institute of Technology	1.46
7. University of Arkansas, Little Rock	1.47
8. University of Memphis	1.49
9. Massachusetts Inst. of Technology	1.60
10. University of North Texas	1.64
11. Oregon Institute of Technology	1.71
12. Princeton University	1.72
13. Northwestern University	1.79
14. Southern Univ. and A&M College	1.85
15. Tennessee State University	1.89
16. U.S. Coast Guard Academy	2.00
16. Arizona State U., Coll of Tech. & Innov.	2.00
18. University of Alaska, Fairbanks	2.02
19. Bucknell University	2.05
20. University of the Pacific	2.07

**Minimum of 50 degrees awarded.
268 schools fit the criteria for this table.
Faculty refers to teaching faculty.*

HIGHEST RATIO OF RESEARCH EXPENDITURES TO DOCTORAL DEGREE RECIPIENTS* (IN MILLIONS)

1. University of Dayton	\$5.18
2. University of Rochester	\$2.27
3. Duke University	\$1.95
4. University of Pennsylvania	\$1.89
5. University of Alabama, Huntsville	\$1.85
6. Carnegie Mellon University	\$1.84
7. University of Pittsburgh	\$1.68
8. Colorado State University	\$1.60
9. University of Tulsa	\$1.59
10. Boston University	\$1.33
11. SUNY, Buffalo	\$1.32
12. University of Maryland, College Park	\$1.28
12. Texas A&M University	\$1.28
14. Massachusetts Inst. of Technology	\$1.26
15. Vanderbilt University	\$1.25
16. California Institute of Technology	\$1.22
17. New Jersey Inst. of Technology	\$1.17
18. University of Southern California	\$1.13
19. Oklahoma State University	\$1.12
19. Mississippi State University	\$1.12
21. University of Wisconsin, Madison	\$1.11
22. University of California, San Diego	\$1.09
22. University of Iowa	\$1.09
22. Princeton University	\$1.09
25. North Carolina State University	\$1.06
26. FAMU-FSU College of Engineering	\$1.05
27. Yale University	\$1.04
27. University of Central Florida	\$1.04
29. Cornell University	\$1.03
29. University of Akron	\$1.03
31. West Virginia University	\$1.02
32. Purdue University	\$1.01
33. University of California, Santa Cruz	\$1.00
33. University of Texas, El Paso	\$1
35. University of Utah	\$.99
35. University of Washington	\$.99
35. University of Kentucky	\$.99
38. Rutgers University	\$.97
38. University of Tennessee, Knoxville	\$.97
40. Harvard University	\$.96
41. University of Nebraska, Lincoln	\$.95
42. Colorado School of Mines	\$.94
42. University of Alabama	\$.94
44. Auburn University	\$.92
44. Pennsylvania State University	\$.92
46. City College of the CUNY	\$.90
46. University of Colorado, Boulder	\$.9
48. Virginia Tech	\$.88
49. University of Arkansas	\$.87
49. Northwestern University	\$.87

**Minimum of 15 doctoral degrees awarded
126 schools fit this criterion.*

HIGHEST PERCENTAGE OF DOCTORAL DEGREES TO NONRESIDENT ALIEN BY SCHOOL*

1. SUNY, Binghamton	87.9%
2. Northeastern University	85.0%
2. University of Nebraska, Lincoln	85.0%
4. Louisiana State University	84.6%
5. Florida International University	83.9%
6. University of Connecticut	82.1%
7. SUNY, Buffalo	81.3%
8. University of Cincinnati	80.6%
9. Stony Brook University	77.9%
10. City College of the CUNY	77.4%
11. Texas A&M University	76.0%
12. University of Iowa	75.6%
13. University of Houston	75.0%
14. Illinois Institute of Technology	74.3%
15. Auburn University	73.8%
16. Iowa State University	73.2%
17. University of Louisville	73.1%
18. Michigan Technological University	72.5%
19. Polytechnic Institute of NYU	72.4%
20. Texas Tech University	71.4%

**Minimum of 25 doctoral degrees awarded
104 schools fit this criterion.*

LOWEST PERCENTAGE OF DOCTORAL DEGREES TO NONRESIDENT ALIEN BY SCHOOL*

1. University of California, Santa Cruz	28.6%
2. George Washington University	30.2%
2. Colorado School of Mines	32.2%
4. Colorado State University	32.5%
5. University of Pennsylvania	33.3%
6. Vanderbilt University	34.0%
7. University of California, Berkeley	34.2%
8. Brigham Young University	36.7%
9. William Marsh Rice University	37.5%
9. George Mason University	37.5%
11. University of Virginia	38.1%
12. University of Colorado, Boulder	38.4%
13. Duke University	39.5%
14. Boston University	40.7%
15. University of Notre Dame	41.1%
16. University of California, San Diego	42.0%
17. University of Washington	42.1%
18. Massachusetts Inst. of Technology	42.7%
19. University of California, Davis	43.0%
20. University of Kansas	44.4%

**Minimum of 25 doctoral degrees awarded
104 schools fit this criterion.*

BACHELOR'S DEGREES BY DISCIPLINE 2003-2012

Bachelor's Degrees	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Aerospace Engineering	2,011	2,232	2,371	2,722	2,788	2,930	3,057	3,218	3,459	3,668
Architectural Engineering	627	590	722	631	625	646	723	753	743	763
Biological/Agricultural Eng.	603	601	635	646	659	623	631	719	796	871
Biomedical Engineering	1,628	2,019	2,410	2,917	2,969	3,237	3,644	3,670	4,066	4,374
Chemical Engineering	5,233	4,801	4,521	4,452	4,551	4,850	5,185	5,948	6,487	7,245
Civil Engineering	8,192	8,142	8,247	8,935	9,402	10,132	10,508	11,027	12,154	12,309
Civil/Environmental Eng.1	-	-	212	291	445	464	558	591	709	751
Computer Engineering	5,746	5,838	5,455	4,901	4,046	3,808	3,394	3,340	3,381	3,688
Computer Science (inside eng.)	8,649	9,156	8,419	7,330	6,446	5,964	5,652	6,049	6,708	7,371
Electrical Engineering	11,994	12,500	12,459	11,915	11,467	10,790	9,859	9,634	9,942	10,102
Electrical/Computer Eng.	2,782	2,700	2,924	2,825	2,425	2,216	2,194	2,175	2,153	2,426
Engineering (General)	1,105	1,138	1,179	1,176	1,246	1,160	1,246	1,335	1,465	1,192
Engineering Management	296	302	303	238	274	331	309	336	315	434
Engr. Science and Engr. Physics	451	501	383	431	460	472	431	526	496	562
Environmental Engineering	516	576	522	437	454	486	503	587	698	905
Industr./Manuf./Systems Eng.	3,769	3,790	3,647	3,664	3,503	3,367	3,510	3,744	3,727	4,107
Mechanical Engineering	13,801	14,182	14,947	16,063	16,701	17,324	17,375	18,391	19,241	20,369
Metallurgical/Materials Eng.	859	817	840	909	963	1,095	1,035	1,152	1,161	1,280
Mining Engineering	96	85	92	120	119	153	190	191	213	236
Nuclear Engineering	135	202	275	342	402	415	378	414	469	565
Other Engineering Disciplines	2,422	2,488	2,724	2,902	2,942	3,211	3,351	3,794	3,730	3,956
Petroleum Engineering	250	233	315	339	428	496	654	753	888	1,002
TOTAL	71,165	72,893	73,602	74,186	73,315	74,170	74,387	78,347	83,001	88,176

¹ New discipline added in 2005.

ENROLLMENT BY CLASS 2003-2012

UNDERGRADUATE ENROLLMENT	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Freshmen	97,706	97,514	95,961	102,125	106,110	110,543	113,588	118,831	122,820	133,082
Sophomores	80,768	80,083	78,317	79,883	83,753	88,227	94,111	97,909	102,125	110,011
Juniors	80,931	80,511	78,232	79,244	80,647	86,835	92,758	97,519	102,102	108,862
Seniors	117,298	117,988	114,741	112,950	115,180	117,586	127,046	136,426	144,683	152,735
TOTAL FULL TIME	376,703	376,096	367,576	374,202	385,690	403,191	427,503	450,685	471,730	504,690
TOTAL PART TIME	33,414	32,008	31,212	31,331	30,971	31,828	32,085	34,903	38,470	42,724

MASTER'S DEGREES BY DISCIPLINE 2003-2012

MASTERS DEGREES	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Aerospace Engineering	720	915	1,043	1,094	1,056	1,096	1,075	1,166	1,398	1,443
Architectural Engineering	111	160	164	112	116	119	121	131	125	150
Biological/Agricultural Eng.	139	191	173	182	149	155	171	197	213	234
Biomedical Engineering	762	862	1,007	1,326	1,156	1,221	1,396	1,447	1,558	1,890
Chemical Engineering	1,136	1,321	1,404	1,204	1,036	1,051	1,084	1,162	1,354	1,440
Civil Engineering	3,638	3,745	3,875	3,835	3,368	3,437	3,659	4,088	4,739	5,002
Civil/Environmental Eng. ¹	-	-	78	109	178	223	249	282	279	570
Computer Engineering	1,800	1,735	1,557	1,510	1,479	1,662	1,880	1,712	1,783	1,963
Computer Science (inside eng.)	5,163	5,797	5,735	5,197	4,913	4,924	5,373	5,230	5,497	5,756
Electrical Engineering	4,419	5,656	5,615	5,256	5,026	5,735	6,137	6,345	6,666	6,572
Electrical/Computer Eng.	3,653	4,393	4,243	3,753	3,532	3,757	3,682	3,459	3,799	3,824
Engineering (General)	607	642	539	671	602	612	729	745	906	666
Engineering Management	1,663	1,764	1,818	1,817	2,114	2,036	2,240	2,595	2,484	2,665
Engr. Science/Engr. Physics	344	315	282	315	205	194	170	248	216	205
Environmental Engineering	488	579	635	571	552	524	552	639	724	788
Industr./Manuf./Systems Eng.	2,766	3,262	3,138	2,663	2,565	2,669	2,986	2,990	3,359	3,362
Mechanical Engineering	3,680	4,461	4,767	4,631	4,485	4,647	4,757	5,066	5,915	6,237
Metallurgical/Materials. Eng.	642	737	743	702	702	715	771	771	852	951
Mining Engineering	27	46	38	48	49	54	51	29	47	49
Nuclear Engineering	212	197	181	246	255	268	264	305	324	366
Other Engineering Disciplines	3,026	2,826	3,259	3,532	3,232	3,655	4,063	4,152	4,320	4,852
Petroleum Engineering	200	233	256	241	213	232	222	264	382	387
TOTAL	35,196	39,837	40,550	39,015	36,983	38,986	41,632	43,023	46,940	49,372

¹ New discipline added in 2005.

DOCTORAL DEGREES BY DISCIPLINE 2003-2012

DOCTORAL DEGREES	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Aerospace Engineering	197	210	259	244	259	252	276	254	280	317
Architectural Engineering	2	7	6	2	8	11	7	7	6	8
Biological/Agricultural Eng.	69	90	68	66	65	88	80	87	114	135
Biomedical Engineering	240	339	333	436	536	662	722	733	812	843
Chemical Engineering	592	655	805	834	898	888	836	905	863	849
Civil Engineering	618	644	725	767	770	706	707	681	747	714
Civil/Environmental Eng.1	-	-	20	29	51	100	87	92	78	115
Computer Engineering	95	125	115	191	193	216	230	248	229	248
Computer Science (inside eng.)	410	494	606	761	867	847	863	849	880	918
Electrical Engineering	644	720	834	939	1,064	1,006	959	992	1,030	1,126
Electrical/Computer Eng.	761	901	938	1,112	1,234	1,169	1,055	1,038	1,185	1,197
Engineering (General)	47	44	46	75	56	64	65	57	70	89
Engineering Management	30	40	35	39	37	35	44	46	43	51
Engr. Science/Engr. Physics	102	109	111	131	143	133	150	160	155	139
Environmental Engineering	89	124	112	129	133	138	143	134	154	134
Industr./Manuf./Systems Eng.	275	306	302	348	398	401	381	352	383	378
Mechanical Engineering	792	855	964	1,132	1,161	1,140	1,216	1,078	1,225	1,323
Metallurgical/Materials. Eng.	388	442	464	519	584	617	598	603	632	707
Mining Engineering	12	7	11	16	15	13	12	6	4	9
Nuclear Engineering	81	61	76	81	88	103	87	114	115	112
Other Engineering Disciplines	398	403	457	460	447	447	511	517	521	557
Petroleum Engineering	28	28	46	40	48	50	54	42	56	66
TOTAL	5,870	6,604	7,333	8,351	9,055	9,086	9,083	8,995	9,582	10,035

¹ New discipline added in 2005.

UNDERGRADUATE ENROLLMENT BY DISCIPLINE 2003-2012

MASTER'S ENROLLMENT	2003	2004	2005	2006	2007	2008		
	Total	Total	Total	Total	Total	Full Time	Part Time	Total
Aerospace Engineering	11,310	11,845	16,470	16,599	17,184	17,561	664	18,225
Architectural Engineering	2,919	2,994	4,526	4,173	4,404	4,033	130	4,163
Biological Eng. and Agricultural Eng.	2,946	2,676	3,050	3,106	3,206	3,191	78	3,269
Biomedical Engineering	10,946	12,965	14,677	15,892	16,671	17,798	519	18,317
Chemical Engineering	23,236	23,362	23,050	24,724	27,283	28,636	1,326	29,962
Civil Engineering	45,353	47,464	45,455	48,172	51,005	50,167	4,430	54,597
Civil/Environmental Engineering ¹	-	-	1,449	2,035	2,696	2,546	247	2,793
Computer Science (inside eng.)	39,848	35,446	32,255	31,417	31,550	27,766	4,081	31,847
Electrical/Computer Engineering	111,183	102,012	88,860	84,281	80,742	73,343	8,158	81,501
Engineering (General)	8,143	7,687	16,820	18,665	22,983	22,856	1,186	24,042
Engineering Management	983	958	1,276	1,049	1,065	1,224	23	1,247
Engr. Science and Engr. Physics	2,294	2,371	3,647	4,058	2,615	2,643	99	2,742
Environmental Engineering	927	853	2,119	2,398	2,932	3,180	308	3,488
Industr./Manuf./Systems Eng.	14,743	14,616	14,235	14,024	13,940	13,476	1,184	14,660
Mechanical Engineering	83,737	87,633	84,838	87,074	89,089	85,249	7,089	92,338
Metallurgical and Matrls. Eng.	3,291	3,362	3,752	4,046	4,229	4,312	164	4,476
Mining Engineering	470	592	652	801	887	881	51	932
Nuclear Engineering	1,301	1,431	1,623	1,742	1,835	1,832	41	1,873
Other Engineering Disciplines	44,805	47,965	37,808	38,380	38,852	38,468	1,922	40,390
Petroleum Engineering	1,682	1,872	2,226	2,897	3,493	4,029	128	4,157
TOTAL	410,117	408,104	398,788	405,533	416,661	403,191	31,828	435,019

¹ New discipline added in 2005

Note: ASEE collected enrollment data at the department level until 2004. Enrollment data for 2005 was collected at the degree program level. This method is more accurate. However, some longitudinal continuity is lost between 2001-2004 and 2005. For example, some aerospace data was grouped with mechanical data prior to 2005 because mechanical engineering departments often award aerospace degrees. Consequently, the aerospace total is much larger in 2005. This effect is also apparent for some other disciplines.

2009			2010			2011			2012		
Full Time	Part Time	Total	Full Time	Part Time	Total	Full Time	Part Time	Total	Full Time	Part Time	Total
18,108	601	18,709	18,482	785	19,267	18,909	879	19,788	19,402	897	20,299
3,618	179	3,797	3,677	183	3,860	3,381	161	3,542	3,195	164	3,359
3,778	96	3,874	3,911	127	4,038	4,291	151	4,442	4,245	172	4,417
19,558	504	20,062	21,166	556	21,722	23,403	664	24,067	25,884	736	26,620
32,050	1,476	33,526	34,506	1,563	36,069	36,499	1,819	38,318	39,448	2,053	41,501
53,436	4,784	58,220	53,520	5,008	58,528	53,215	4,940	58,155	53,082	4,995	58,077
2,929	235	3,164	3,185	302	3,487	3,163	313	3,476	3,773	273	4,046
29,959	4,092	34,051	32,921	4,690	37,611	36,983	5,347	42,330	42,296	6,100	48,396
75,061	7,952	83,013	77,270	8,427	85,697	80,607	8,867	89,474	85,113	9,470	94,583
22,903	1,226	24,129	25,035	1,022	26,057	27,159	1,159	28,318	27,981	1,276	29,257
1,036	24	1,060	1,005	36	1,041	1,114	36	1,150	1,528	62	1,590
2,497	84	2,581	2,618	66	2,684	2,650	96	2,746	3,174	173	3,347
4,027	338	4,365	4,549	360	4,909	4,788	363	5,151	4,970	415	5,385
14,224	1,033	15,257	14,751	1,151	15,902	15,429	1,426	16,855	16,851	1,587	18,438
91,856	7,082	98,938	96,164	7,687	103,851	101,476	9,016	110,492	110,379	10,096	120,475
4,520	146	4,666	4,970	173	5,143	5,273	182	5,455	5,589	230	5,819
974	68	1,042	1,039	80	1,119	1,112	63	1,175	1,174	65	1,239
2,207	60	2,267	2,399	89	2,488	2,529	99	2,628	2,468	112	2,580
40,536	1,912	42,448	44,914	2,311	47,225	44,647	2,584	47,231	47,905	3,370	51,275
4,226	193	4,419	4,603	287	4,890	5,102	305	5,407	6,233	478	6,711
427,503	32,085	459,588	450,685	34,903	485,588	471,730	38,470	510,200	504,690	42,724	547,414

MASTER'S ENROLLMENT BY DISCIPLINE 2003-2012

MASTER'S ENROLLMENT	2003	2004	2005	2006	2007	2008		
	Total	Total	Total	Total	Total	Full Time	Part Time	Total
Aerospace Engineering	1,984	2,162	2,428	2,385	2,493	1,996	672	2,668
Architectural Engineering	221	250	288	144	127	107	30	137
Biological Eng. and Agricultural Eng.	421	369	399	364	391	395	59	454
Biomedical Engineering	2,029	2,314	2,313	2,390	2,455	1,890	678	2,568
Chemical Engineering	2,854	2,746	2,328	1,963	2,073	1,507	648	2,155
Civil Engineering	9,435	9,298	7,554	7,499	7,830	5,297	2,882	8,179
Civil/Environmental Engineering ¹	-	-	211	252	446	421	165	586
Computer Science (inside eng.)	12,132	10,897	10,973	10,835	11,708	7,161	4,507	11,668
Electrical/Computer Engineering	28,420	26,049	22,794	23,681	25,932	17,041	8,925	25,966
Engineering (General)	1,132	1,209	1,736	1,710	1,749	798	1,232	2,030
Engineering Management	2,299	2,984	4,210	4,625	5,085	2,172	3,051	5,223
Engr. Science and Engr. Physics	499	364	377	327	288	195	106	301
Environmental Engineering	739	584	1,297	1,274	1,169	787	481	1,268
Industr./Manuf./Systems Eng.	6,874	6,068	5,713	5,505	5,814	4,195	2,127	6,322
Mechanical Engineering	12,340	11,666	10,222	10,291	11,030	7,857	3,735	11,592
Metallurgical and Matrls. Eng.	1,109	1,027	1,213	1,207	1,290	1,019	357	1,376
Mining Engineering	110	112	112	115	123	93	29	122
Nuclear Engineering	312	310	475	522	599	449	152	601
Other Engineering Disciplines	8,266	9,012	7,489	7,790	8,386	4,104	4,780	8,884
Petroleum Engineering	489	493	515	556	585	532	183	715
TOTAL	91,665	87,914	82,647	83,435	89,573	58,016	34,799	92,815

¹ New discipline added in 2005

Note: ASEE collected enrollment data at the department level until 2004. Enrollment data for 2005 was collected at the degree program level. This method is more accurate. However, some longitudinal continuity is lost between 2001-2004 and 2005. For example, some aerospace data was grouped with mechanical data prior to 2005 because mechanical engineering departments often award aerospace degrees. Consequently, the aerospace total is much larger in 2005. This effect is also apparent for some other disciplines.

2009			2010			2011			2012		
Full Time	Part Time	Total	Full Time	Part Time	Total	Full Time	Part Time	Total	Full Time	Part Time	Total
2,125	849	2,974	2,396	952	3,348	2,505	1,038	3,543	2,341	937	3,278
139	21	160	198	29	227	198	55	253	231	73	304
438	48	486	464	88	552	461	95	556	415	109	524
1,911	693	2,604	2,265	701	2,966	2,440	717	3,157	2,398	796	3,194
1,538	696	2,234	1,794	709	2,503	1,827	720	2,547	1,824	643	2,467
6,326	3,130	9,456	6,888	3,414	10,302	6,914	3,600	10,514	6,790	3,526	10,316
479	165	644	491	200	691	549	194	743	896	366	1,262
7,274	4,675	11,949	7,873	4,727	12,600	8,187	4,831	13,018	8,778	4,652	13,430
17,664	9,346	27,010	16,975	9,485	26,460	16,626	8,695	25,321	17,392	8,292	25,684
799	1,073	1,872	798	1,433	2,231	915	1,346	2,261	733	895	1,628
2,430	3,397	5,827	2,376	3,327	5,703	2,347	3,137	5,484	2,678	2,934	5,612
215	94	309	194	131	325	248	106	354	206	98	304
990	514	1,504	1,121	574	1,695	1,152	624	1,776	1,189	668	1,857
4,272	2,312	6,584	4,156	2,399	6,555	3,860	2,553	6,413	4,053	2,603	6,656
8,511	4,220	12,731	8,856	4,582	13,438	8,632	4,693	13,325	8,690	4,691	13,381
1,144	360	1,504	1,253	316	1,569	1,293	405	1,698	1,326	448	1,774
90	36	126	83	17	100	120	23	143	101	62	163
460	176	636	509	201	710	581	197	778	463	241	704
4,409	5,518	9,927	4,634	5,818	10,452	4,770	6,166	10,936	5,155	6,655	11,810
634	211	845	683	225	908	672	265	937	763	260	1,023
61,848	37,534	99,382	64,007	39,328	103,335	64,297	39,460	103,757	66,422	38,949	105,371

DOCTORAL ENROLLMENT BY DISCIPLINE 2003-2012

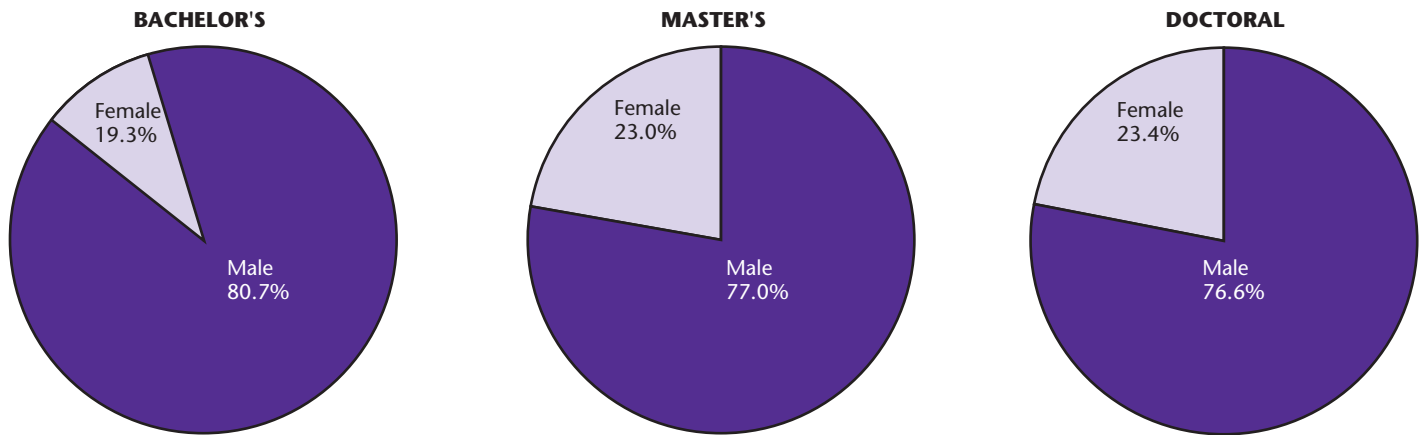
DOCTORAL ENROLLMENT	2003	2004	2005	2006	2007	2008		
	Total	Total	Total	Total	Total	Full Time	Part Time	Total
Aerospace Engineering	1,321	1,459	1,797	1,780	1,657	1,520	183	1,703
Architectural Engineering	65	65	44	25	27	34	2	36
Biological Eng./Agricultural Eng.	412	400	461	507	524	526	63	589
Biomedical Engineering	2,903	3,546	3,936	4,411	4,668	4,518	376	4,894
Chemical Engineering	5,044	5,185	4,995	5,025	4,980	4,865	289	5,154
Civil Engineering	4,666	4,971	4,548	4,383	4,319	3,587	592	4,179
Civil/Environmental Engineering ¹	-	-	136	230	377	375	122	497
Computer Science (inside eng.)	4,835	5,174	6,406	6,346	6,307	5,527	781	6,308
Electrical/Computer Engineering	15,419	16,074	15,472	15,303	15,431	13,519	1,862	15,381
Engineering (General)	280	342	341	572	499	370	150	520
Engineering Management	342	487	314	240	261	95	162	257
Engr. Science/Engr. Physics	872	902	1,036	966	937	926	55	981
Environmental Engineering	472	416	875	769	871	706	122	828
Industr./Manuf./Systems Eng.	2,246	2,427	2,546	2,521	2,449	1,965	467	2,432
Mechanical Engineering	7,117	7,295	6,777	6,982	6,937	6,454	819	7,273
Metallurgical/Matrls. Engineering	2,690	2,831	3,281	3,302	3,620	3,419	248	3,667
Mining Engineering	69	89	93	71	105	64	13	77
Nuclear Engineering	453	464	580	589	647	623	44	667
Other Engineering Disciplines	3,200	3,664	3,201	3,328	3,434	2,982	656	3,638
Petroleum Engineering	198	210	238	211	268	289	80	369
TOTAL	52,604	56,001	57,077	57,561	58,318	52,364	7,086	59,450

¹ New discipline added in 2005

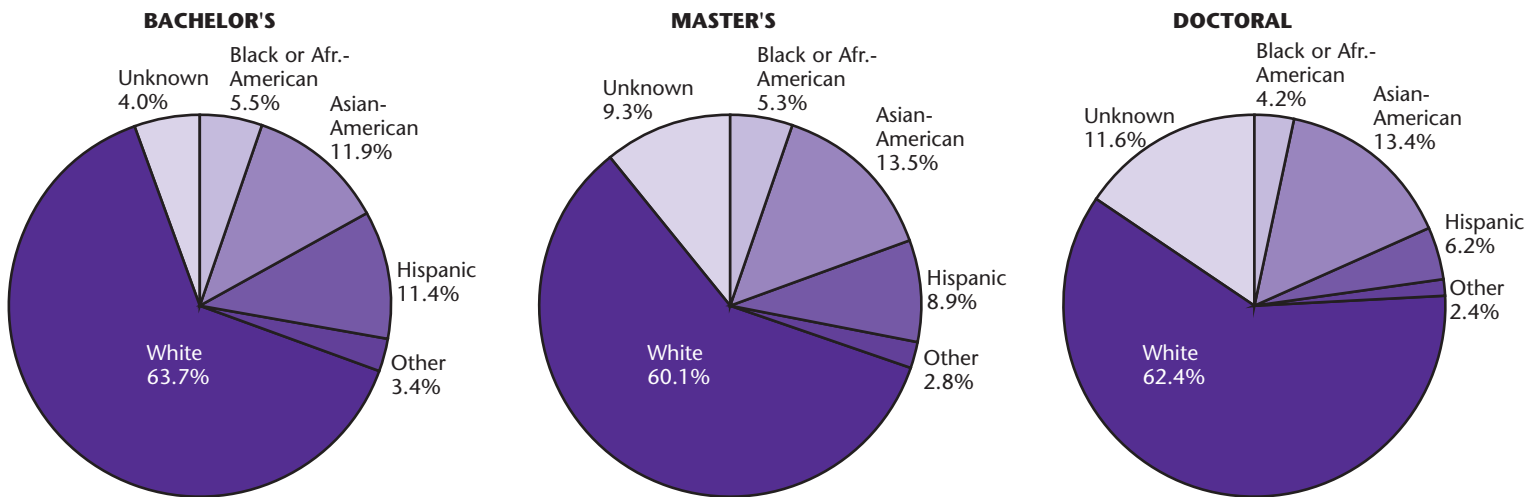
Note: ASEE collected enrollment data at the department level until 2004. Enrollment data for 2005 was collected at the degree program level. This method is more accurate. However, some longitudinal continuity is lost between 2001-2004 and 2005. For example, some aerospace data was grouped with mechanical data prior to 2005 because mechanical engineering departments often award aerospace degrees. Consequently, the aerospace total is much larger in 2005. This effect is also apparent for some other disciplines.

2009			2010			2011			2012		
Full Time	Part Time	Total	Full Time	Part Time	Total	Full Time	Part Time	Total	Full Time	Part Time	Total
1,711	202	1,913	1,797	199	1,996	1,863	206	2,069	1,819	229	2,048
49	4	53	52	3	55	65	3	68	69	4	73
591	64	655	641	87	728	617	93	710	664	111	775
4,863	426	5,289	5,183	418	5,601	5,397	452	5,849	5,852	533	6,385
5,142	333	5,475	5,277	348	5,625	5,492	340	5,832	5,743	360	6,103
3,961	664	4,625	4,302	730	5,032	4,458	630	5,088	4,588	704	5,292
383	126	509	382	119	501	541	131	672	666	171	837
5,855	906	6,761	6,084	947	7,031	6,515	996	7,511	6,520	1,079	7,599
14,506	1,934	16,440	14,964	2,078	17,042	15,012	2,042	17,054	15,308	2,140	17,448
413	158	571	540	93	633	581	131	712	569	122	691
112	225	337	138	228	366	133	249	382	122	300	422
896	66	962	905	46	951	912	54	966	947	53	1,000
779	105	884	849	115	964	868	96	964	933	88	1,021
2,253	504	2,757	2,326	555	2,881	2,320	574	2,894	2,190	533	2,723
7,183	893	8,076	7,767	907	8,674	8,085	973	9,058	8,256	1,058	9,314
3,597	218	3,815	3,733	208	3,941	4,016	233	4,249	4,241	259	4,500
71	12	83	52	8	60	92	15	107	92	25	117
660	45	705	758	47	805	738	72	810	831	84	915
3,058	641	3,699	3,341	677	4,018	3,593	685	4,278	3,753	753	4,506
364	40	404	413	52	465	464	59	523	411	65	476
56,447	7,566	64,013	59,504	7,865	67,369	61,762	8,034	69,796	63,574	8,671	72,245

ENROLLMENT BY GENDER

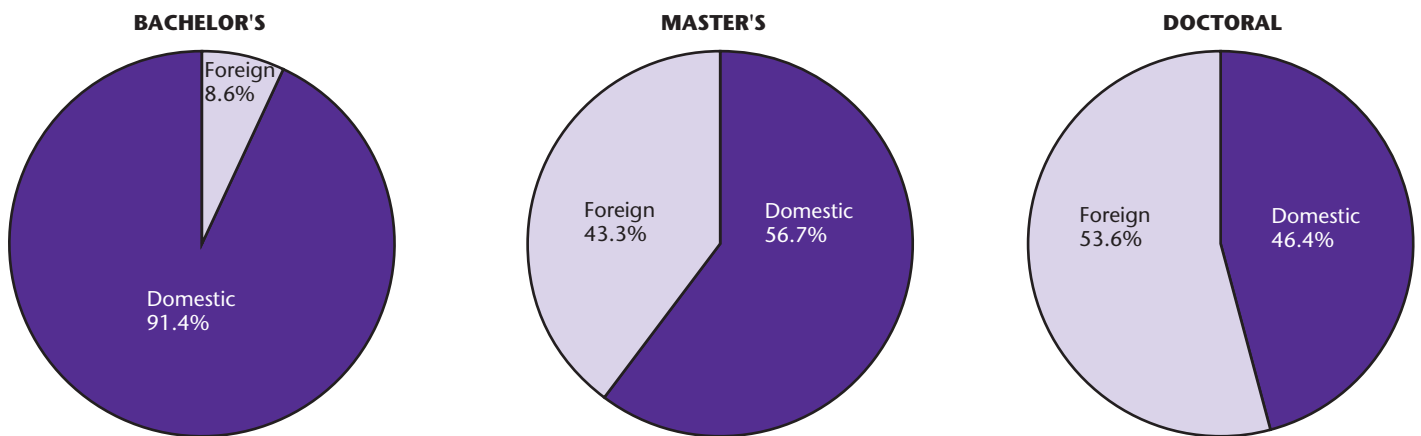


ENROLLMENT BY ETHNICITY*



* Calculations for enrollment by ethnicity do not include foreign nationals.

ENROLLMENT BY RESIDENCY



BACHELOR'S TOTAL*
504,690

MASTER'S TOTAL
105,371

DOCTORAL TOTAL
72,245

*Enrollment total at the bachelor's degree level is for full-time students.

Forty-three Canadian institutions are currently accredited by the Canadian Engineering Accreditation Board. Ten of those institutions participated in the 2012 ASEE Survey of Engineering Colleges. The data submitted by these institutions continues to display similar trends as those seen at U.S. institutions. The representation of women is almost identical at the bachelor's and master's level in both countries. ASEE was unable to gather current data from Ecole de Technologie Superieure.

ENGINEERING BACHELOR'S DEGREES AWARDED BY SCHOOL

1. University of Waterloo	990
2. University of Toronto	961
3. University of British Columbia	836
4. University of Alberta	805
5. Ecole de Technologie Superieure	720
6. Ecole Polytechnique de Montreal	641
7. McGill University	505
8. University of Calgary	475
9. Concordia University, Montreal	398
10. University of Ottawa	275
11. University of Western Ontario	230

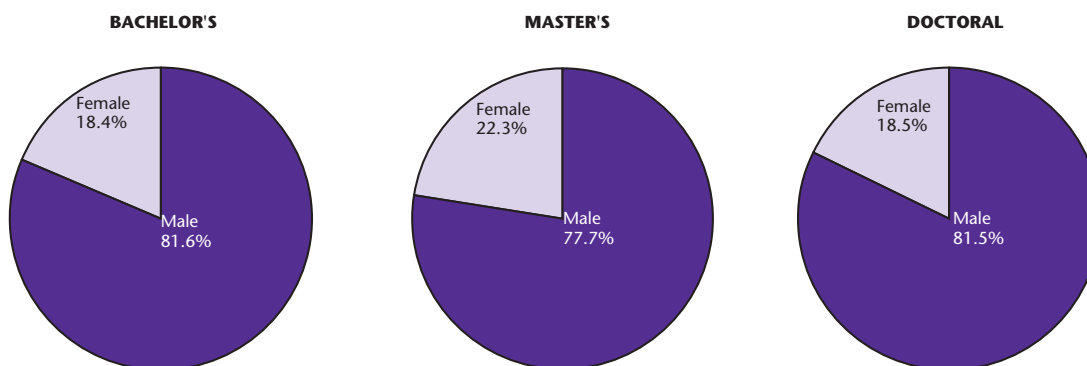
ENGINEERING MASTER'S DEGREES AWARDED BY SCHOOL

1. Concordia University, Montreal	468
2. University of Waterloo	415
3. University of Toronto	410
4. University of Alberta	323
5. University of British Columbia	312
6. University of Calgary	299
7. Ecole Polytechnique de Montreal	292
8. Ecole de Technologie Superieure	195
9. University of Ottawa	185
10. McGill University	136
11. University of Western Ontario	111

ENGINEERING DOCTORAL DEGREES AWARDED BY SCHOOL

1. University of Waterloo	115
2. University of Toronto	109
3. University of Alberta	80
4. Ecole Polytechnique de Montreal	75
5. University of British Columbia	74
6. Concordia University, Montreal	71
7. University of Western Ontario	63
8. University of Calgary	62
8. McGill University	62
10. University of Ottawa	41
11. Ecole de Technologie Superieure	23

ENGINEERING DEGREES AWARDED BY GENDER



RESEARCH EXPENDITURES BY SCHOOL

(IN MILLIONS)

1. University of Alberta	\$47.9
2. University of British Columbia	\$36.9
3. University of Western Ontario	\$22.3
4. University of Ottawa	\$13.4
5. Concordia University, Montreal	\$11.7

TENURED/TENURE-TRACK FACULTY MEMBERS BY SCHOOL

1. University of Waterloo	254
2. Ecole Polytechnique de Montreal	230
3. University of Toronto	219
4. University of British Columbia	193
5. University of Alberta	180
6. Concordia University, Montreal	161
7. University of Calgary	143
8. Ecole de Technologie Superieure	138
9. McGill University	135
10. University of Ottawa	113
11. University of Western Ontario	92