

# ENGINEERING BY THE NUMBERS

BY BRIAN L. YODER, PH.D.

## BACHELOR'S DEGREES AND ENROLLMENT

Engineering bachelor's degrees grew by 5.6 percent during 2011, reaching 83,001. Almost all fields grew in the number of graduates produced with the notable exceptions of engineering management, engineering science, and engineering physics, which each saw decreases of around 6 percent. Overall degree totals should increase further in the coming years, since enrollment continued its upward trend in the fall of 2011, posting a 4.8 percent yearly gain to 471,730.

Growth in bachelor enrollment was sustained in many fields, with increases of around 10 percent posted this year in biological and agricultural engineering, biomedical engineering, computer science (inside engineering), petroleum engineering, and, interestingly, engineering management. The only field to show a decrease in bachelor enrollment was architectural engineering, in which enrollment decreased 9 percent from last year.

## MASTER'S DEGREES AND ENROLLMENT

Master's degrees reached another all-time high of 46,940 in 2011, up 8 percent over the previous year. However, overall enrollment in master's programs grew less than 0.5 percent in 2011 over the previous year, indicating that degree growth will flatten out. Some smaller fields had notable growth, including graduates in mining engineering and petroleum engineering, with increases of more than 30 percent from last year. As a result, the number of master's degree graduates in both those disciplines should continue to grow.

## DOCTORAL DEGREES AND ENROLLMENT

Doctoral degrees increased by more than 6 percent from 2010, the first noteworthy increase since 2005. During the previous four years, doctoral degrees remained flat at about 9,000 awarded per year, climbing to 9,582 degrees awarded in 2011. Large percentage increases in degrees awarded were seen in petroleum engineering and biological and agricultural engineering, which saw greater than 30 percent increases over the previous year. Overall doctoral enrollment continued to climb as it has since 2002, with an increase of 3.5 percent from 2010.

## ENGINEERING STUDENTS FROM OTHER COUNTRIES

Nonresident aliens received a similar share of engineering degrees in 2011 and 2010. The proportion of nonresident aliens that received a doctorate remained the same as 2010 at 54.2 percent, while the proportion of those receiving master's degrees decreased from 46.1 percent in 2010 to 44.4 percent in 2011. The proportion of nonresident aliens receiving a bachelor's degree remained stable, increasing less than 1 percent from 6.2 percent in 2010 to 6.7 percent in 2011.

## FEMALE ENGINEERING STUDENTS

The percentage of women receiving engineering degrees remained about the same as in the previous few years. Females accounted for 18.4 percent of bachelor's degrees, up slightly from 18.1 percent in 2010. The percentage of master's degrees awarded to women remained unchanged at 22.6 percent; while that of doctoral degrees decreased about 1 percent from 22.9 percent in 2010 to 21.8 percent in 2011. The proportion of engineering degrees awarded to females should remain stable over the next few years, since women represent 18.2 percent of all bachelor enrollees, 22.7 percent of master's enrollees, and 21.6 percent of doctoral enrollees.

## DEMOGRAPHIC TRENDS OF ENGINEERING STUDENTS

The most notable demographic trend in 2011 was a 4 percent decrease in the percentage of white students awarded degrees at all levels, bringing the percentage of degrees awarded to white students back in line with historical trends after a bump up in 2010. The percentage of black students also decreased slightly at all levels, bringing the percent of degrees awarded from around 4.5 percent to closer to 4 percent. The percentage of Asian Americans receiving an engineering degree increased at all degree levels. The percentage of Hispanics receiving a bachelor's degree increased again this year to 8.5 percent, continuing a 10-year trend of yearly increases. 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.

## FACULTY

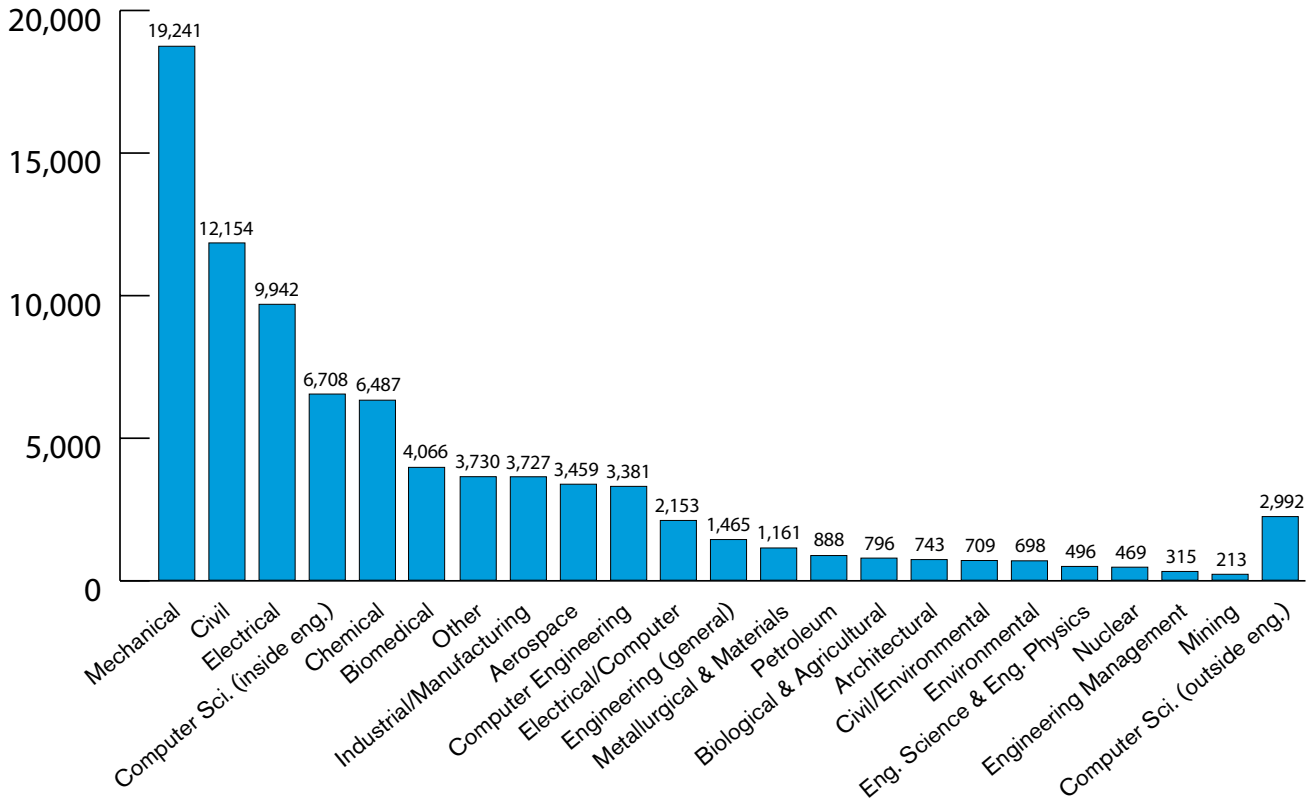
Women comprise 13.8 percent of tenured and tenure-track faculty as of the fall of 2011. Ten years of increases have slowly raised this mark, which stood at 9.2 percent in 2002. The increases are present at all faculty levels. Growth for underrepresented minorities is less evident. African American faculty members have comprised 2.5 percent of the total for the past five years. Hispanic faculty representation has grown only from 3 percent in 2001 to 3.7 percent in 2011. Asian American faculty members have increased steadily each year, reaching 24.1 percent of the total this year.

## MORE DATA

More detailed data for 348 U.S. and 11 Canadian engineering colleges can be found in the following pages of our 2011 *Profiles of Engineering and Engineering Technology Colleges* book or online at [www.asee.org/colleges](http://www.asee.org/colleges).

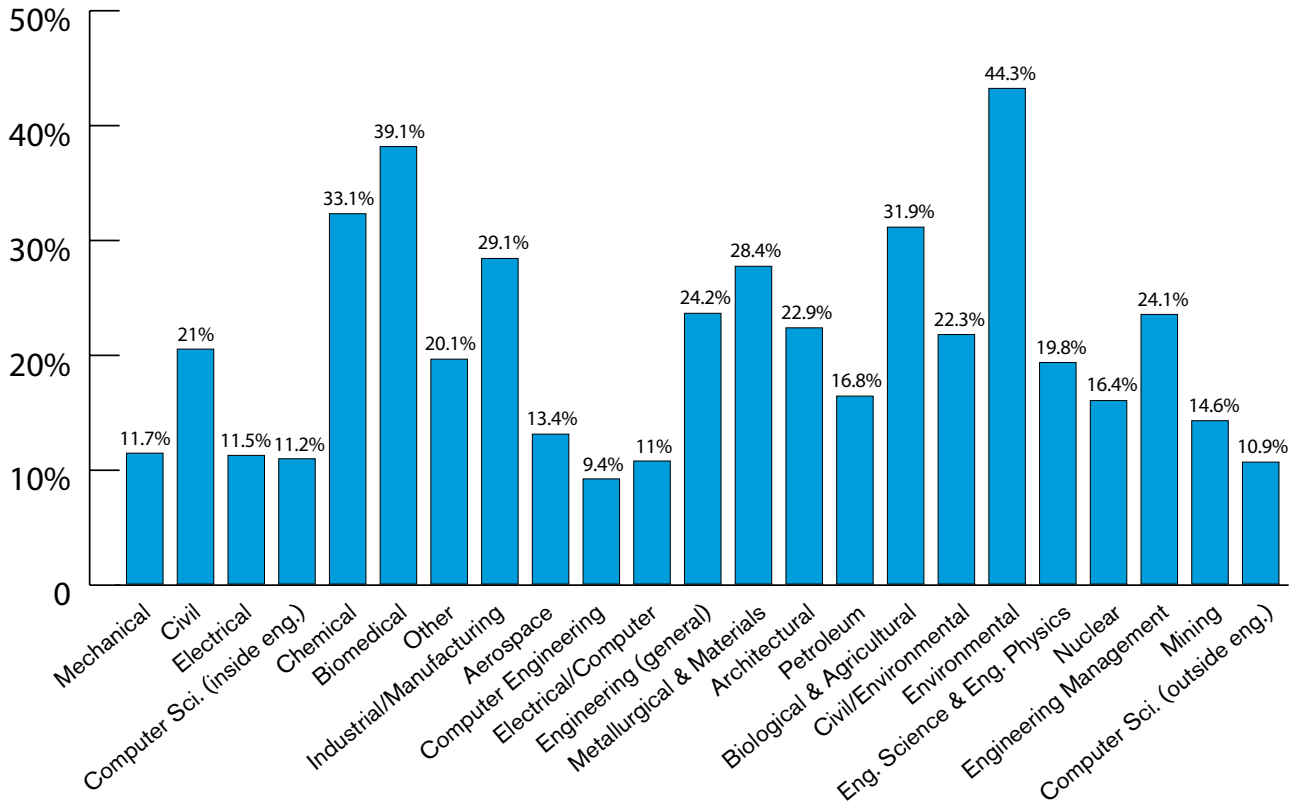
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## BACHELOR'S DEGREES AWARDED BY ENGINEERING DISCIPLINE: 83,001\*



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

## PERCENTAGE OF BACHELOR'S DEGREES AWARDED TO WOMEN BY DISCIPLINE: 18.4% OF TOTAL

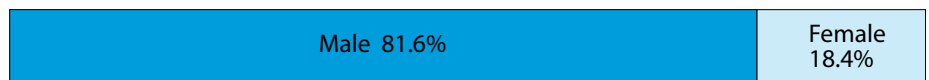


## ENGINEERING BACHELOR'S DEGREES AWARDED BY SCHOOL

1. Georgia Institute of Technology	1,716
2. Pennsylvania State University	1,450
3. Purdue University	1,394
4. Univ. of Illinois, Urbana-Champaign	1,382
5. University of Michigan	1,284
6. Virginia Tech	1,270
7. North Carolina State University	1,268
8. Texas A&M University	1,231
9. California Poly. State U., SLO	1,045
10. University of Texas, Austin	1,031
11. Ohio State University	991
12. University of Florida	962
13. University of Minnesota, Twin Cities	860
14. Iowa State University	855
15. University of California, Berkeley	840
16. University of California, San Diego	801
16. University of Washington	801
18. University of California, Los Angeles	769
19. Rensselaer Polytechnic Institute	746
20. University of Central Florida	739
21. Missouri Univ. of Science and Tech.	733
22. Cornell University	719
23. University of Wisconsin, Madison	681
24. Colorado School of Mines	669
25. Massachusetts Inst. of Technology	666
26. Arizona State University	651
27. University of Maryland, College Park	640
28. Clemson University	624
29. California State Poly. U., Pomona	589
30. SUNY, Buffalo	587
31. Michigan Technological University	585
32. University of Colorado, Boulder	581
33. Oregon State University	580
34. Drexel University	566
35. Louisiana State University	560
36. Florida International University	555
37. University of Puerto Rico, Mayaguez	526
38. Auburn University	516
39. University of California, Irvine	511
40. Texas Tech University	505
40. University of Virginia	505
42. Rutgers University	504
43. University of Nebraska, Lincoln	493
44. West Virginia University	492
45. University of California, Davis	485
46. Stony Brook University	479
47. University of Southern California	470
48. Michigan State University	466
49. University of South Florida	462
50. Worcester Polytechnic Institute	451

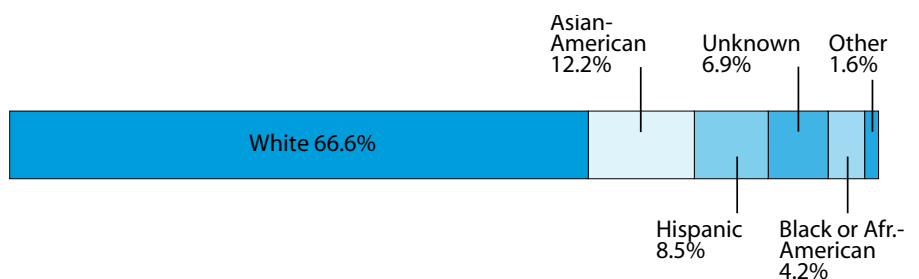
348 schools reported.

## BACHELOR'S DEGREES BY GENDER, 2011



	2002	2003	2004	2005	2006	2007	2008	2009	2010
Female	20.9%	20.4%	20.3%	19.5%	19.3%	18.1%	18.0%	17.8%	18.1%
Male	79.1%	79.6%	79.7%	80.5%	80.7%	81.9%	82.0%	82.2%	81.9%

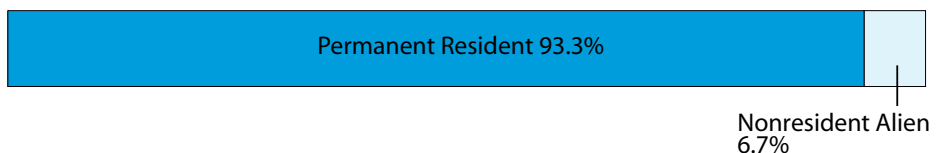
## BACHELOR'S DEGREES BY ETHNICITY, 2011\*



	2002	2003	2004	2005	2006	2007	2008	2009	2010
Black or Afr. American	5.4%	5.1%	5.1%	5.3%	5.0%	4.9%	4.7%	4.6%	4.5%
Hispanic	5.5%	5.4%	5.6%	5.8%	6.0%	6.2%	6.5%	6.6%	7.0%
Other	7.3%	7.2%	8.0%	8.6%	8.5%	8.3%	8.9%	11.0%	1.2%
Asian American	14.2%	14.0%	14.2%	14.1%	13.8%	13.3%	13.0%	12.4%	12.2%
White	67.6%	68.3%	67.1%	66.2%	66.7%	67.3%	66.9%	65.4%	69.8%
Unknown	-	-	-	-	-	-	-	-	5.3%

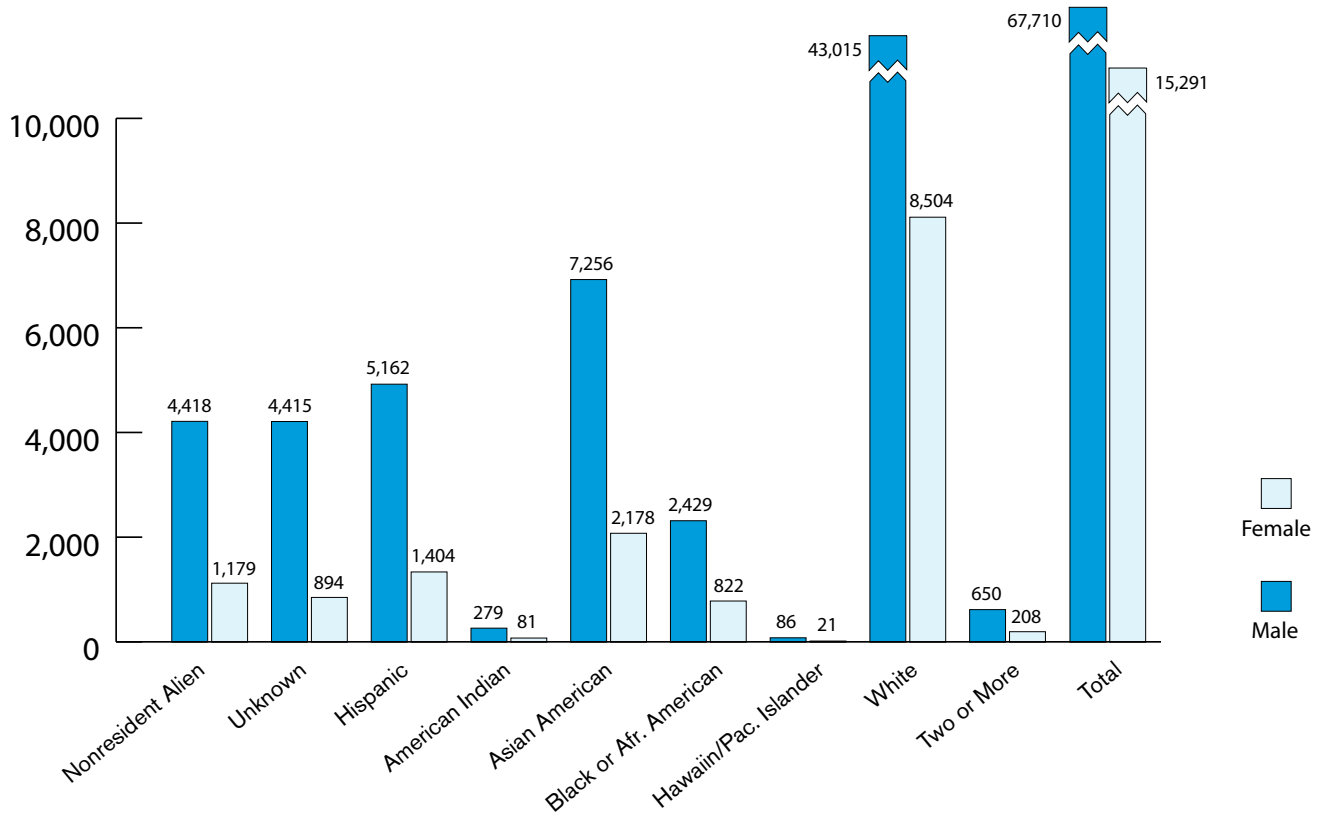
\*American Indians (0.5%), Hawaiian/Pacific Islanders (0.1%) and Two or More (1.1%) are combined under Other.

## BACHELOR'S DEGREES BY RESIDENCY, 2011



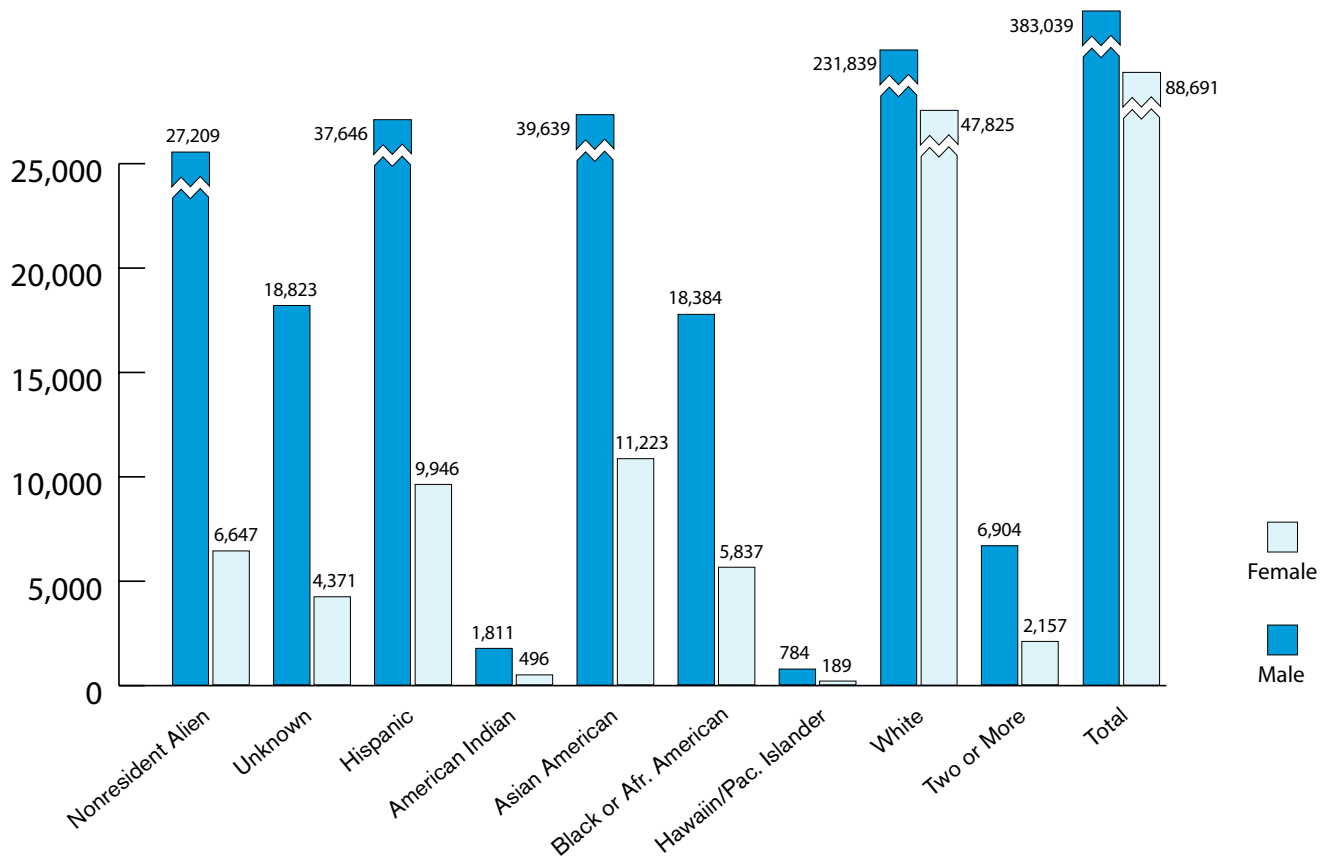
	2002	2003	2004	2005	2006	2007	2008	2009	2010
Nonresident Alien	7.2%	7.7%	7.8%	7.5%	7.2%	6.7%	6.0%	6.0%	6.2%
Permanent Resident	92.8%	92.3%	92.2%	92.5%	92.8%	93.3%	94.0%	94.0%	93.8%

## BACHELOR'S DEGREES AWARDED BY ETHNICITY AND GENDER: 83,001\*



\* Includes 690 male and 263 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: 471,730\*



\* Includes 4,622 male and 1,678 female enrolled students from schools in Puerto Rico. Enrollment is for full-time students. Also includes 17 institutions that counted virtually all permanent residents in the Unknown category.

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

1. Georgia Institute of Technology	387
2. Massachusetts Inst. of Technology	289
3. University of Michigan	284
4. Purdue University	270
5. Univ. of Illinois, Urbana-Champaign	257
6. Texas A&M University	235
7. University of Texas, Austin	219
8. Virginia Tech	216
9. Cornell University	206
10. North Carolina State University	202
11. Pennsylvania State University	195
12. University of Washington	192
13. Rensselaer Polytechnic Institute	191
13. University of California, San Diego	191
15. University of Florida	186
16. University of California, Berkeley	173
17. University of Puerto Rico, Mayaguez	165
18. California Poly. State U., SLO	158
19. Colorado School of Mines	153
20. Missouri Univ. of Science and Tech.	152
21. University of Maryland, College Park	150
21. University of Virginia	150
23. University of California, Los Angeles	148
24. Ohio State University	144
25. Iowa State University	136
26. Columbia University	126
27. Arizona State University	125
27. University of Wisconsin, Madison	125
29. University of Minnesota, Twin Cities	120
30. Florida International University	117
31. Clemson University	116
31. University of Southern California	116
33. University of Colorado, Boulder	115
34. Stony Brook University	113
35. Stanford University	112
35. University of Central Florida	112
37. Carnegie Mellon University	111
38. Vanderbilt University	104
39. University of Pennsylvania	103
40. Drexel University	102
41. Northwestern University	101
41. University of California, Davis	101
43. Worcester Polytechnic Institute	97
44. Oregon State University	96
45. Stevens Institute of Technology	95
46. Johns Hopkins University	94
47. Rutgers University	93
47. University of California, Irvine	93
49. Michigan Technological University	90
50. SUNY, Buffalo	89

348 schools reported.

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

1. Franklin W. Olin College of Eng.	44.9%
2. Massachusetts Inst. of Technology	43.4%
3. Univ. of Tennessee, Chattanooga	41.9%
4. Howard University	38.2%
5. Brown University	36.2%
6. Tuskegee University	36.1%
7. Harvey Mudd College	35.9%
8. Columbia University	35.3%
9. Dartmouth College	34.5%
10. Mercer University	33.3%
11. Vanderbilt University	32.7%
12. Tennessee State University	32.3%
13. Southern Methodist University	31.9%
14. Princeton University	31.8%
15. Yale University	31.7%
15. Carnegie Mellon University	31.7%
15. California Institute of Technology	31.7%
18. University of Puerto Rico, Mayaguez	31.4%
19. University of Rochester	31.3%
20. George Washington University	31.2%

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

1. North Carolina A&T State Univ.	135
2. Georgia Institute of Technology	103
3. Prairie View A&M University	90
4. North Carolina State University	77
5. Alabama A&M University	72
6. University of Florida	58
7. Tuskegee University	56
8. Florida International University	54
8. University of Maryland, College Park	54
8. City College of the CUNY	54
11. Southern Univ. and A&M College	53
12. Morgan State University	51
13. Virginia Tech	49
14. FAMU-FSU College of Eng.	46
14. Massachusetts Inst. of Technology	46
14. University of Michigan	46
16. University of Central Florida	44
18. Howard University	42
19. Auburn University	41
19. Tennessee State University	41

348 schools reported.

**BACHELOR'S DEGREES AWARDED TO ASIAN-AMERICANS BY SCHOOL**

1. University of California, Berkeley	444
2. University of California, Los Angeles	423
3. University of California, San Diego	369
4. Georgia Institute of Technology	307
5. University of Texas, Austin	244
6. University of Washington	225
7. Univ. of Illinois, Urbana-Champaign	217
8. California State Poly. U., Pomona	214
9. University of California, Davis	213
10. California Poly. State U., SLO	172
11. Massachusetts Inst. of Technology	165
12. Rutgers University	160
13. Stony Brook University	157
14. University of Michigan	156
15. Cornell University	150
16. Purdue University	125
17. University of Maryland, College Park	122
18. University of Southern California	117
19. Virginia Tech	116
20. California State Univ., Long Beach	112
20. Columbia University	112

348 schools reported.

**BACHELOR'S DEGREES AWARDED TO HISPANICS BY SCHOOL**

1. Univ. of Puerto Rico, Mayaguez	526
2. Polytechnic Univ. of Puerto Rico	383
3. Florida International University	359
4. University of Texas, El Paso	220
5. University of Florida	167
6. Texas A&M University	151
7. California State Poly. U., Pomona	143
8. University of Central Florida	125
8. California Poly. State U., SLO	125
10. University of Texas, Austin	115
11. Texas A&M University, Kingsville	103
12. Georgia Institute of Technology	95
13. University of Texas, Pan American	90
14. City College of the CUNY	81
15. Arizona State University	79
16. University of South Florida	77
17. Massachusetts Inst. of Technology	76
17. University of Arizona	76
19. University of Texas, San Antonio	75
20. California State Univ., Long Beach	74

348 schools reported.

## AEROSPACE ENGINEERING DEGREES AWARDED BY SCHOOL

1. Embry-Riddle Aero. U., Daytona Beach	262
2. Purdue University	158
3. Georgia Institute of Technology	147
4. University of Michigan	125
5. Pennsylvania State University	103
6. Embry-Riddle Aero. U., Prescott	92
7. University of Texas, Austin	89
8. Virginia Tech	85
9. Rensselaer Polytechnic Institute	82
10. U.S. Air Force Academy	80
11. Univ. of Illinois, Urbana-Champaign	78
12. University of Minnesota, Twin Cities	77
13. University of Maryland, College Park	75
14. California State University, Los Angeles	74
14. Iowa State University	74
14. U.S. Naval Academy	74
14. University of Colorado, Boulder	74
18. University of Florida	73
19. California Poly. State U., SLO	71
20. Texas A&M University	67

67 schools reported.

## BIOMEDICAL ENGINEERING DEGREES AWARDED BY SCHOOL

1. Georgia Institute of Technology	157
2. University of California, San Diego	144
3. Duke University	117
4. Johns Hopkins University	107
4. University of California, Berkeley	107
6. University of Pennsylvania	88
7. University of California, Irvine	86
8. Rutgers University	85
9. Case Western Reserve University	83
10. Boston University	81
10. Rensselaer Polytechnic Institute	81
12. University of Minnesota, Twin Cities	80
13. Arizona State University	77
13. University of Texas, Austin	77
15. Northwestern University	76
15. University of Michigan	76
17. Washington University	75
18. University of Connecticut	74
19. University of Virginia	71
19. Vanderbilt University	71

98 schools reported.

## CHEMICAL ENGINEERING DEGREES AWARDED BY SCHOOL

1. University of Michigan	143
2. Purdue University	137
3. University of Texas, Austin	131
4. Georgia Institute of Technology	128
5. Pennsylvania State University	121
6. Ohio State University	115
7. Texas A&M University	113
8. Univ. of Illinois, Urbana-Champaign	110
9. Virginia Tech	105
10. North Carolina State University	103
11. University of California, Los Angeles	102
12. University of Minnesota, Twin Cities	98
13. Iowa State University	94
14. University of Colorado, Boulder	93
15. Univ. of Puerto Rico, Mayaguez	91
16. University of California, Berkeley	86
17. University of Florida	83
18. University of Wisconsin, Madison	78
19. Colorado School of Mines	72
20. Cornell University	71
21. Johns Hopkins University	70
22. Michigan State University	69
23. Massachusetts Inst. of Technology	68
24. University of California, San Diego	67
25. Louisiana State University	66
25. Michigan Technological University	66
25. Rensselaer Polytechnic Institute	66
28. Drexel University	63
29. Carnegie Mellon University	61
30. University of Notre Dame	60
31. Rutgers University	59
31. University of Dayton	59
33. University of Maryland, College Park	58
34. University of California, Davis	57
34. University of Virginia	57
36. University of Cincinnati	54
36. University of Pittsburgh	54
36. University of Washington	54
39. Missouri Univ. of Science and Tech.	53
40. Brigham Young University	52
40. Case Western Reserve University	52
40. Rose-Hulman Inst. of Technology	52
43. Clemson University	51
44. SUNY, Buffalo	50
45. Oregon State University	49
45. University of Connecticut	49
45. University of Delaware	49
48. Auburn University	48
49. Montana State University	47
50. Worcester Polytechnic Institute	46

159 schools reported.

## CIVIL ENGINEERING DEGREES AWARDED BY SCHOOL

1. Texas A&M University	263
2. Purdue University	261
3. Pennsylvania State University	231
4. Virginia Tech	227
5. California State Poly. U., Pomona	218
6. North Carolina State University	217
7. Georgia Institute of Technology	204
8. Univ. of Illinois, Urbana-Champaign	201
9. University of Florida	171
10. California Poly. State U., SLO	168
11. Clemson University	154
12. University of California, Berkeley	136
13. University of Central Florida	133
14. University of California, Davis	132
15. University of Wisconsin, Madison	126
16. Polytechnic Univ. of Puerto Rico	124
17. University of Washington	123
18. Auburn University	122
19. Ohio State University	120
20. SUNY, Buffalo	118
21. University of Texas, Austin	115
22. Iowa State University	113
23. Univ. of Puerto Rico, Mayaguez	107
24. University of California, Irvine	104
24. University of Minnesota, Twin Cities	104
24. University of South Florida	104
27. University of California, San Diego	103
27. University of Maryland, College Park	103
29. University of California, Los Angeles	100
30. California State University, Sacramento	98
30. Missouri Univ. of Science and Tech.	98
30. University of Alabama	98
33. Michigan Technological University	96
33. University of Kentucky	96
35. University of Pittsburgh	95
35. Washington State University	95
37. San Diego State University	94
37. Texas Tech University	94
39. FAMU-FSU College of Engineering	90
39. New Jersey Institute of Technology	90
39. Oregon State University	90
42. University of Michigan	89
43. University of Delaware	87
44. Clarkson University	86
44. Portland State University	86
46. Florida International University	85
46. Northeastern University	85
48. Rutgers University	82
49. North Dakota State University	81
49. University of Massachusetts, Amherst	81

217 schools reported.

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

1. Georgia Institute of Technology	312
2. University of Michigan	174
3. Purdue University	129
4. Pennsylvania State University	126
5. Virginia Tech	119
6. Texas A&M University	107
7. Cornell University	106
8. University of Florida	90
9. Ohio State University	83
10. Northwestern University	78
11. Univ. of Puerto Rico, Mayaguez	74
12. California Poly. State U., SLO	69
13. Columbia University	65
14. Stanford University	62
15. Iowa State University	61
15. West Virginia University	61
17. Clemson University	54
17. University of Wisconsin, Madison	54
19. University of Southern California	52
20. University of California, Berkeley	51
21. North Carolina State University	48
22. Lamar University	46
22. University of Arkansas	46
24. SUNY, Binghamton	44
24. University of Pittsburgh	44
26. Rensselaer Polytechnic Institute	42
27. Lehigh University	39
28. California State Poly. U., Pomona	38
28. North Dakota State University	38
28. Oregon State University	38
28. University of Central Florida	38
32. Arizona State University	35
33. Rochester Institute of Technology	34
33. University of Oklahoma	34
35. Univ. of Illinois, Urbana-Champaign	33
36. Louisiana State University	32
36. University of Washington	32
38. FAMU-FSU College of Engineering	31
39. Kansas State University	30
40. Kettering University	29
40. Northeastern University	29
40. Texas Tech University	29
40. The University of Iowa	29
40. University of Arizona	29
40. University of Missouri	29
46. Auburn University	28
47. University of Texas, El Paso	27
48. Mississippi State University	26
48. Oklahoma State University	26
50. South Dakota School of Mines and Tech.	25
50. University of Texas, Arlington	25
50. University of Houston	25

113 schools reported.

**MECHANICAL ENGINEERING  
DEGREES AWARDED BY SCHOOL**

1. Georgia Institute of Technology	411
2. Virginia Tech	296
3. Purdue University	264
4. Ohio State University	247
5. California Poly. State U., SLO	236
6. Pennsylvania State University	233
7. Iowa State University	224
8. Texas A&M University	220
8. University of Texas, Austin	220
10. University of Michigan	209
11. Univ. of Illinois, Urbana-Champaign	206
12. University of Florida	204
13. Michigan Technological University	203
14. University of Maryland, College Park	202
15. Kettering University	191
16. Univ. of Minnesota, Twin Cities	189
17. Rensselaer Polytechnic Institute	187
18. University of Wisconsin, Madison	183
19. North Carolina State University	181
20. University of Central Florida	176
21. Missouri Univ. of Science and Tech.	173
22. Massachusetts Inst. of Technology	169
23. University of California, San Diego	166
24. Texas Tech University	163
25. Univ. of California, Los Angeles	148
26. Rose-Hulman Inst. of Technology	147
27. SUNY, Buffalo	144
28. Clemson University	142
29. Northeastern University	141
29. Worcester Polytechnic Institute	141
31. Rochester Inst. of Technology	133
32. University of Kentucky	131
33. Brigham Young University	130
33. Drexel University	130
33. Univ. of California, Berkeley	130
36. Cornell University	127
36. Rutgers University	127
36. Washington State University	127
39. University of Utah	126
40. California State Poly. U., Pomona	124
41. University of South Florida	121
42. Univ. of North Carolina, Charlotte	120
43. Stevens Institute of Technology	119
44. University of California, Irvine	117
45. West Virginia University	116
46. Milwaukee School of Engineering	115
47. University of Missouri	111
48. Univ. of Puerto Rico, Mayaguez	110
49. University of Pittsburgh	109
50. University of Washington	107

283 schools reported.

**ELECTRICAL ENGINEERING  
DEGREES AWARDED BY SCHOOL**

1. Georgia Institute of Technology	200
2. Univ. of Illinois, Urbana-Champaign	177
3. Pennsylvania State University	175
3. University of California, Los Angeles	175
5. Purdue University	172
6. University of Washington	156
7. North Carolina State University	153
8. California Poly. State U., SLO	134
9. University of Minnesota, Twin Cities	122
10. University of Texas, Dallas	120
11. University of Florida	118
11. University of Maryland, College Park	118
13. California State Poly. U., Pomona	116
14. University of Michigan	108
15. Texas A&M University	102
16. University of Texas, El Paso	100
16. Virginia Tech	100
18. Arizona State University	99
19. University of California, San Diego	96
19. University of Central Florida	96
21. City College of the CUNY	87
21. Florida International University	87
23. Michigan Technological University	85
23. Polytechnic Univ. of Puerto Rico	85
25. SUNY, Buffalo	82
25. Univ. of Puerto Rico, Mayaguez	82
27. University of Massachusetts, Lowell	80
28. Missouri Univ. of Science and Tech.	79
29. Auburn University	78
30. Rensselaer Polytechnic Institute	77
31. Iowa State University	76
32. Drexel University	74
33. University of Texas, San Antonio	73
34. Rochester Institute of Technology	72
34. University of South Florida	72
36. San Jose State University	71
37. Northeastern University	70
37. Portland State University	70
37. University of Illinois, Chicago	70
40. Polytechnic Institute of NYU	66
41. University of Wisconsin, Madison	65
42. University of Alabama, Huntsville	64
43. University of California, Davis	62
43. University of California, Irvine	62
45. San Francisco State University	61
45. University of Nebraska, Lincoln	61
47. University of Southern California	60
48. New Jersey Institute of Technology	59
49. Louisiana State University	58
49. Milwaukee School of Engineering	58
49. North Dakota State University	58

256 schools reported.

## COMPUTER ENGINEERING DEGREES AWARDED BY SCHOOL

1. North Carolina State University	90
2. Univ. of Illinois, Urbana-Champaign	88
3. Iowa State University	76
4. Georgia Institute of Technology	75
5. Virginia Tech	74
6. University of Michigan	68
7. Purdue University	66
8. Rensselaer Polytechnic Institute	65
9. California Polytechnic State University	62
10. Rochester Institute of Technology	52
10. University of Florida	52
12. University of Washington	50
13. San Jose State University	48
14. Drexel University	46
14. University of Puerto Rico, Mayaguez	46
16. Florida International University	45
16. Missouri Univ. of Science and Tech.	45
16. University of Central Florida	45
19. University of Wisconsin, Madison	44
20. University of Nebraska, Lincoln	43
21. Arizona State University	42
22. New Jersey Institute of Technology	40
23. University of North Texas	39
24. University of Virginia	37
25. Michigan Technological University	36
25. West Virginia University	36
27. Polytechnic Univ. of Puerto Rico	34
27. Stevens Institute of Technology	34
29. Pennsylvania State University	33
29. SUNY, Binghamton	33
31. San Diego State University	32
31. University of Pittsburgh	32
33. Clemson University	31
33. University of Illinois, Chicago	31
33. University of Minnesota, Twin Cities	31
36. Northeastern University	30
37. University of California, Santa Cruz	28
38. SUNY, Buffalo	27
38. University of Alabama, Huntsville	27
40. Michigan State University	26
40. University of South Florida	26
42. California State Poly. U., Pomona	25
42. Santa Clara University	25
44. Case Western Reserve University	24
44. City College of the CUNY	24
44. Kettering University	24
44. Polytechnic Institute of NYU	24
44. University of Maine	24
49. Illinois Institute of Technology	23
49. Univ. of Maryland, Baltimore County	23
49. University of Utah	23

177 schools reported.

## ELECTRICAL/COMPUTER ENGINEERING DEGREES AWARDED BY SCHOOL

1. University of Texas, Austin	245
2. University of California, Berkeley	198
3. Carnegie Mellon University	132
4. Ohio State University	125
5. Rutgers University	111
6. Cornell University	74
6. Massachusetts Inst. of Technology	74
8. Brigham Young University	72
9. Worcester Polytechnic Institute	70
10. Oregon State University	64
11. University of California, Los Angeles	55
12. Duke University	54
13. University of Arizona	49
14. University of Pennsylvania	46
15. Temple University	44
16. University of Colorado, Boulder	42
17. University of Akron	40
18. New York Institute of Technology	39
18. Oklahoma State University	39
18. University of Iowa	38
18. University of Toledo	38

53 schools reported.

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

1. Georgia Institute of Technology	234
2. University of California, Irvine	196
3. University of Texas, Austin	178
4. Carnegie Mellon University	168
5. New Jersey Institute of Technology	163
5. Rutgers University	163
7. University of Maryland, College Park	124
8. University of Wisconsin, Madison	122
9. Rochester Institute of Technology	104
10. University of California, Berkeley	98
11. Northeastern University	92
12. Rensselaer Polytechnic Institute	84
13. University of Massachusetts, Amherst	79
14. Purdue University	77
15. San Jose State University	68
16. Worcester Polytechnic Institute	64
17. Brigham Young University	63
17. University of Iowa	63
19. Wentworth Institute of Technology	57
20. University of California, Davis	56

57 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	171
2. Florida International University	159
2. University of California, San Diego	159
4. University of Texas, Dallas	157
5. University of Central Florida	152
6. University of Minnesota, Twin Cities	138
7. Stony Brook University	137
8. University of Michigan	136
9. North Carolina State University	129
10. University of Washington	128
11. SUNY, Binghamton	112
12. Ohio State University	110
13. Massachusetts Inst. of Technology	109
14. California Poly. State U., SLO	102
15. Virginia Tech	95
16. University of Pennsylvania	92
17. Arizona State University	88
18. Stanford University	87
18. University of North Texas	87
20. Univ. of Maryland, Baltimore County	83
21. Michigan State University	80
21. University of Southern California	80
23. University of Missouri	76
24. Oregon State University	75
24. University of Nevada, Las Vegas	75
26. University of California, Santa Cruz	72
26. University of Utah	72
28. SUNY, Buffalo	70
28. Texas A&M University	70
30. University of California, Los Angeles	67
31. Florida Atlantic University	66
32. Cornell University	63
32. University of South Florida	63
34. California State University, Long Beach	61
35. California State University, Northridge	58
35. George Mason University	58
37. California State University, Fullerton	57
37. New York Institute of Technology	57
39. Auburn University	56
39. Pennsylvania State University	56
39. University of California, Berkeley	56
39. University of Colorado, Boulder	56
43. Clemson University	55
44. University of Virginia	54
45. Drexel University	53
46. Oakland University	51
47. Colorado School of Mines	50
48. University of California, Santa Barbara	49
48. University of Michigan, Dearborn	49
50. University of Illinois, Chicago	48
50. University of Wisconsin, Milwaukee	48
50. Wright State University	48

167 schools reported.

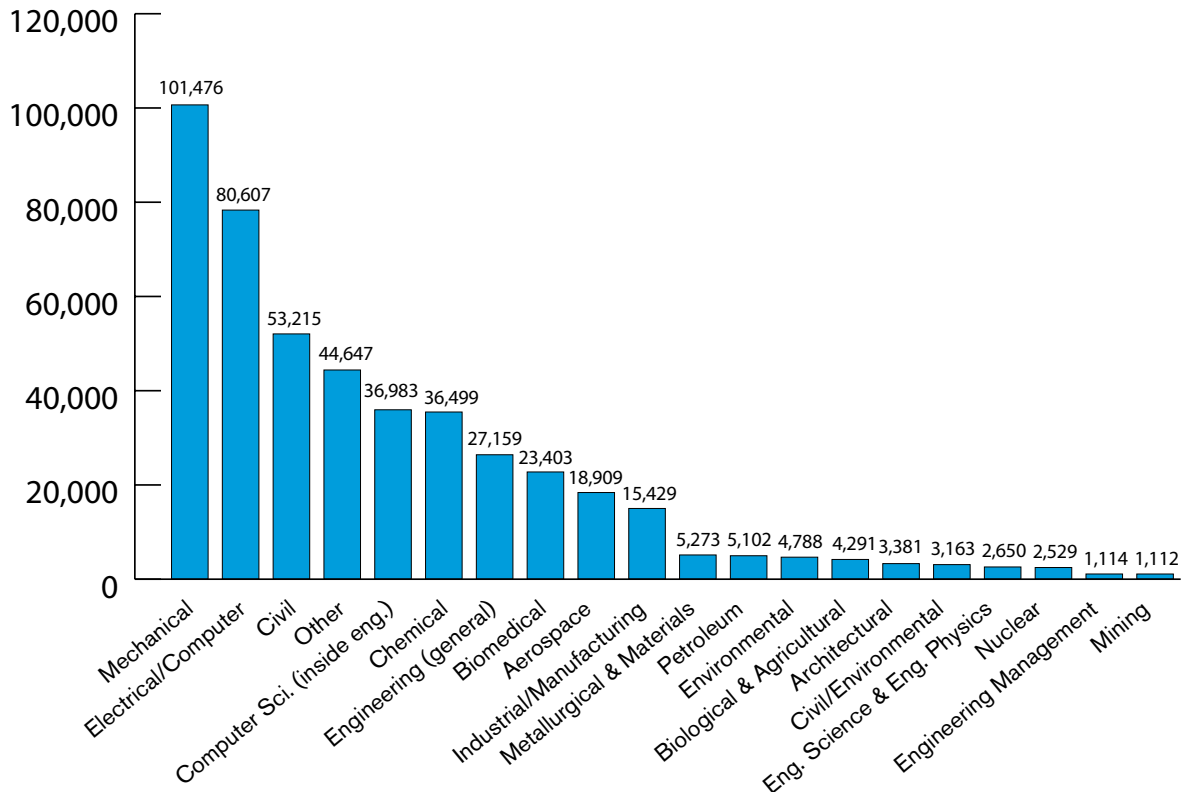


**UNDERGRADUATE ENROLLMENT BY SCHOOL\***

1. Pennsylvania State University	8,593	23. University of Minnesota, Twin Cities	3,988	45. Rensselaer Polytechnic Institute	2,984
2. Georgia Institute of Technology	8,297	24. Clemson University	3,953	46. University of South Florida	2,954
3. Texas A&M University	7,628	25. Florida International University	3,949	47. University of Utah	2,921
4. Purdue University	7,321	26. Louisiana State University	3,924	48. University of Nebraska, Lincoln	2,904
5. Univ. of Illinois, Urbana-Champaign	7,181	27. Colorado School of Mines	3,883	49. University of California, Irvine	2,897
6. Ohio State University	6,629	28. Drexel University	3,821	50. San Jose State University	2,843
7. Virginia Tech	6,576	29. University of Wisconsin, Madison	3,812	51. University of Oklahoma	2,803
8. North Carolina State University	6,311	30. Texas Tech University	3,578	52. George Mason University	2,716
9. University of Central Florida	6,208	31. University of California, Berkeley	3,487	53. Stanford University	2,678
10. Iowa State University	6,025	32. Michigan State University	3,451	54. University of Cincinnati	2,640
11. University of Michigan	5,585	33. Polytechnic Univ. of Puerto Rico	3,405	55. Rochester Institute of Technology	2,590
12. University of Texas, Austin	5,543	34. Michigan Technological University	3,335	56. SUNY, Buffalo	2,589
13. University of Florida	5,484	35. University of California, Los Angeles	3,311	57. University of Texas, El Paso	2,575
14. California Poly. State U., SLO	5,422	36. Rutgers University	3,243	58. Mississippi State University	2,564
15. Arizona State University	4,931	37. Cornell University	3,145	59. Washington State University	2,559
16. University of California, San Diego	4,878	37. University of California, Davis	3,145	60. University of Houston	2,553
17. Univ. of Puerto Rico, Mayaguez	4,449	39. West Virginia University	3,110	61. Worcester Polytechnic Institute	2,541
18. Oregon State University	4,343	40. University of Maryland, College Park	3,080	62. University of Missouri	2,534
19. California State Poly. U., Pomona	4,234	41. University of Colorado, Boulder	3,054	63. Northeastern University	2,514
20. Missouri Univ. of Science and Tech.	4,206	42. California State Univ., Long Beach	3,032	64. Oklahoma State University	2,485
21. University of Washington	4,036	42. University of Alabama	3,032	65. University of Texas, Arlington	2,447
22. Auburn University	4,018	44. Kansas State University	3,026	66. University of Akron	2,416

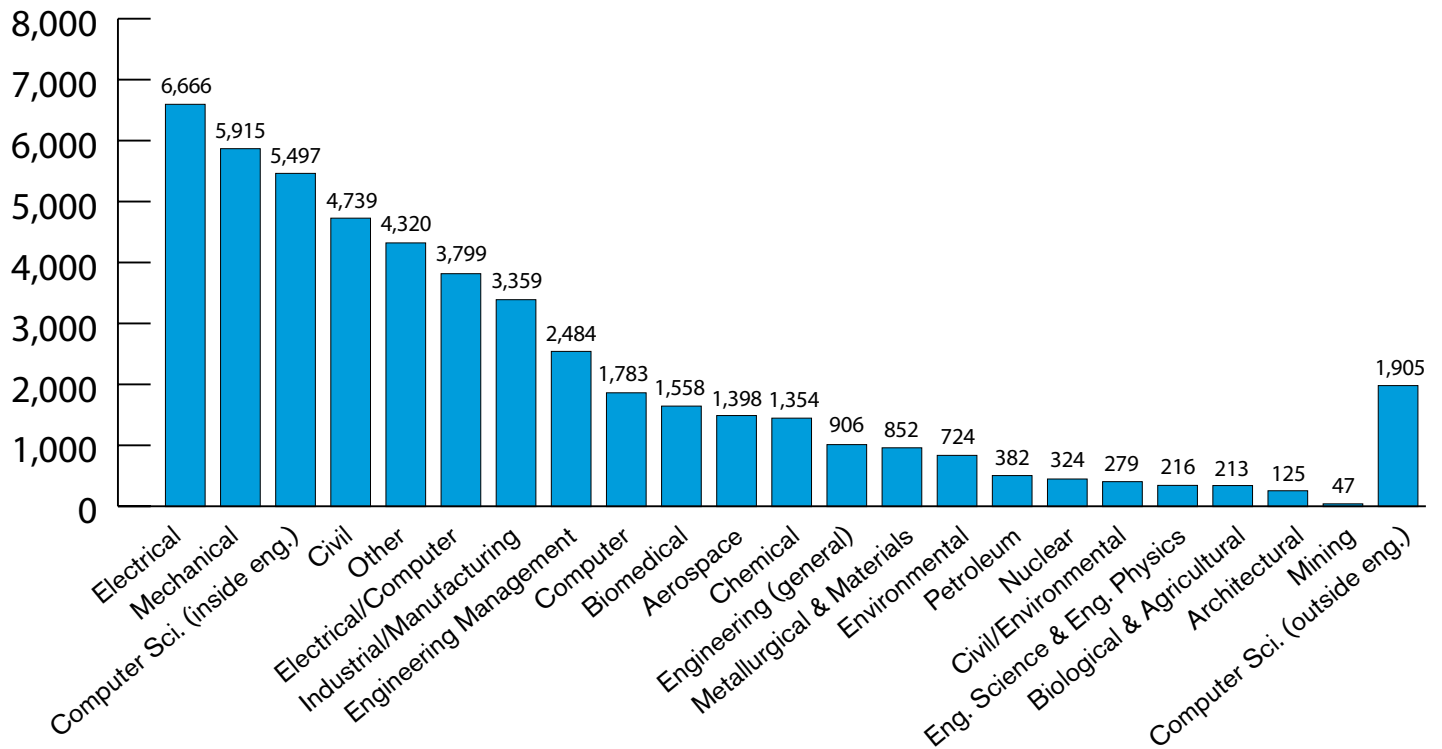
343 schools reported.  
 \*Some schools do not permit formal enrollment in their engineering colleges until the second or third year. Enrollment is full-time plus part-time students.

**UNDERGRADUATE ENROLLMENT BY DISCIPLINE:\* 471,730**



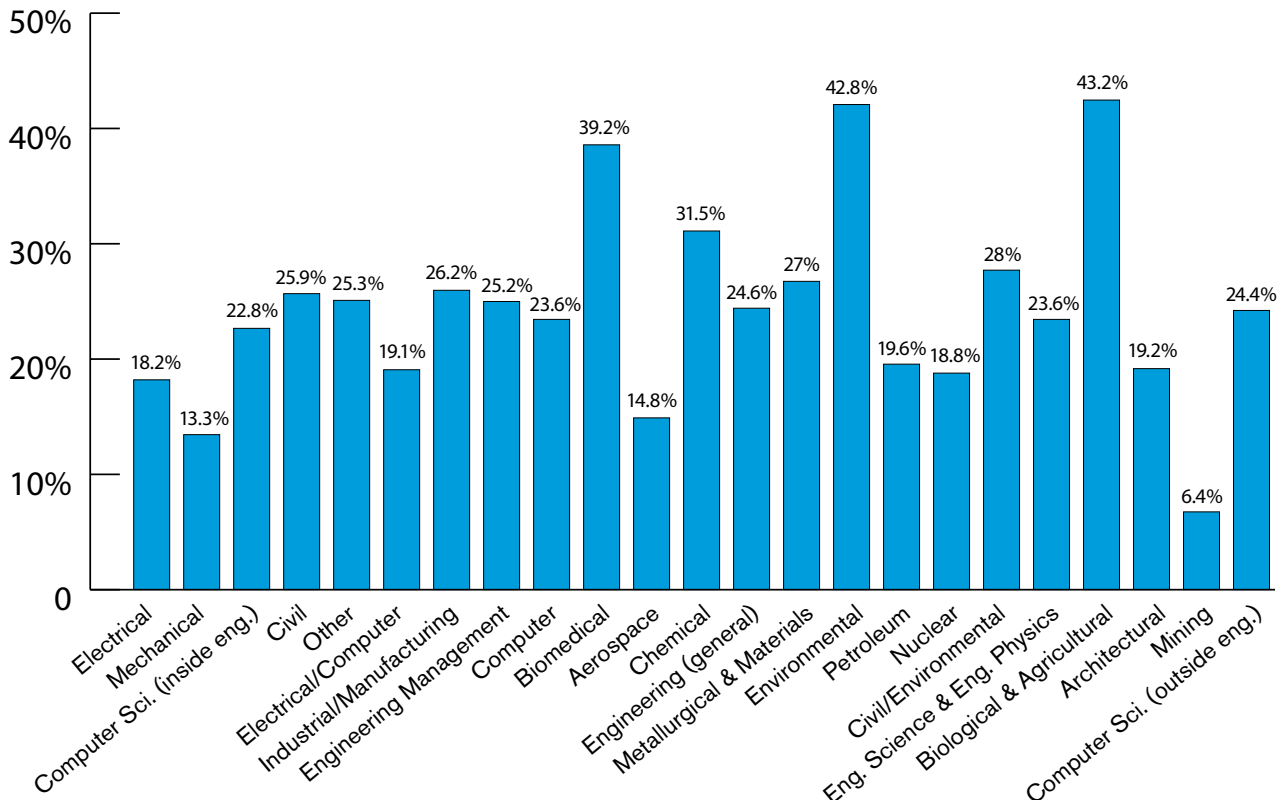
\* Enrollment is for full-time bachelor's degree candidates in engineering.

## MASTER'S DEGREES AWARDED BY DISCIPLINE: 46,940\*



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

## PERCENTAGE OF MASTER'S DEGREES AWARDED TO WOMEN BY DISCIPLINE: 22.7% OF TOTAL



## ENGINEERING MASTER'S DEGREES AWARDED BY SCHOOL

1. University of Southern California	1,680
2. Stanford University	1,025
3. Georgia Institute of Technology	985
4. University of Florida	875
5. University of Michigan	845
6. Johns Hopkins University	816
7. San Jose State University	788
8. Stevens Institute of Technology	777
8. Cornell University	777
10. Massachusetts Inst. of Technology	738
11. Columbia University	723
12. Texas A&M University	678
13. Polytechnic Institute of NYU	645
14. North Carolina State University	641
15. Carnegie Mellon University	586
16. Univ. of Illinois, Urbana-Champaign	541
17. George Washington University	506
18. University of Wisconsin, Madison	497
19. New Jersey Inst. of Technology	488
20. Purdue University	478
21. The University of Texas, Austin	474
22. SUNY, Buffalo	460
23. Arizona State University	455
23. Virginia Tech	455
25. Univ. of California, Los Angeles	441
26. University of Texas, Arlington	435
27. University of Colorado, Boulder	426
28. Illinois Institute of Technology	411
28. George Mason University	411
30. University of Washington	408
31. Missouri Univ. of Science and Tech.	400
32. University of Minnesota, Twin Cities	395
32. Pennsylvania State University	395
34. University of Bridgeport	393
35. Northwestern University	392
36. University of Maryland, College Park	384
37. University of Pennsylvania	383
38. Stony Brook University	360
39. Northeastern University	358
40. University of Texas, Dallas	354
41. Ohio State University	352
42. Colorado School of Mines	345
43. University of California, San Diego	342
44. University of California, Berkeley	335
45. University of Central Florida	324
46. Santa Clara University	304
47. Drexel University	303
48. California State Univ., Northridge	298
49. Worcester Polytechnic Institute	293
50. University of Louisville	288

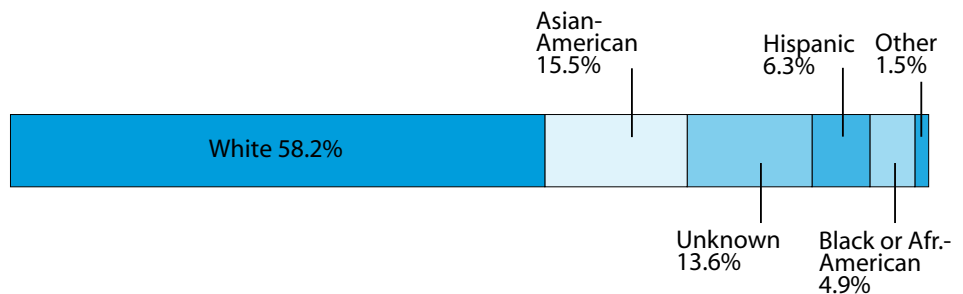
262 schools reported.

## MASTER'S DEGREES BY GENDER, 2011



	2002	2003	2004	2005	2006	2007	2008	2009	2010
Female	22.1%	22.3%	21.9%	22.7%	22.5%	22.4%	23.0%	23.0%	22.6%
Male	77.9%	77.7%	78.1%	77.3%	77.5%	77.6%	77.0%	77.0%	77.4%

## MASTER'S DEGREES BY ETHNICITY, 2011\*



	2002	2003	2004	2005	2006	2007	2008	2009	2010
Black or Afr. American	4.7%	4.6%	4.3%	4.6%	4.4%	4.6%	4.8%	4.7%	5.1%
Hispanic	4.2%	4.3%	4.5%	5.0%	4.7%	5.2%	5.4%	5.3%	6.0%
Other	11.8%	12.1%	14.1%	14.4%	15.7%	15.2%	15.1%	17.4%	1.4%
Asian American	15.2%	15.8%	16.8%	17.7%	16.5%	16.5%	15.4%	15.1%	14.9%
White	64.1%	63.2%	60.3%	58.3%	58.7%	58.5%	59.3%	57.5%	60.9%
Unknown	-	-	-	-	-	-	-	-	11.7%

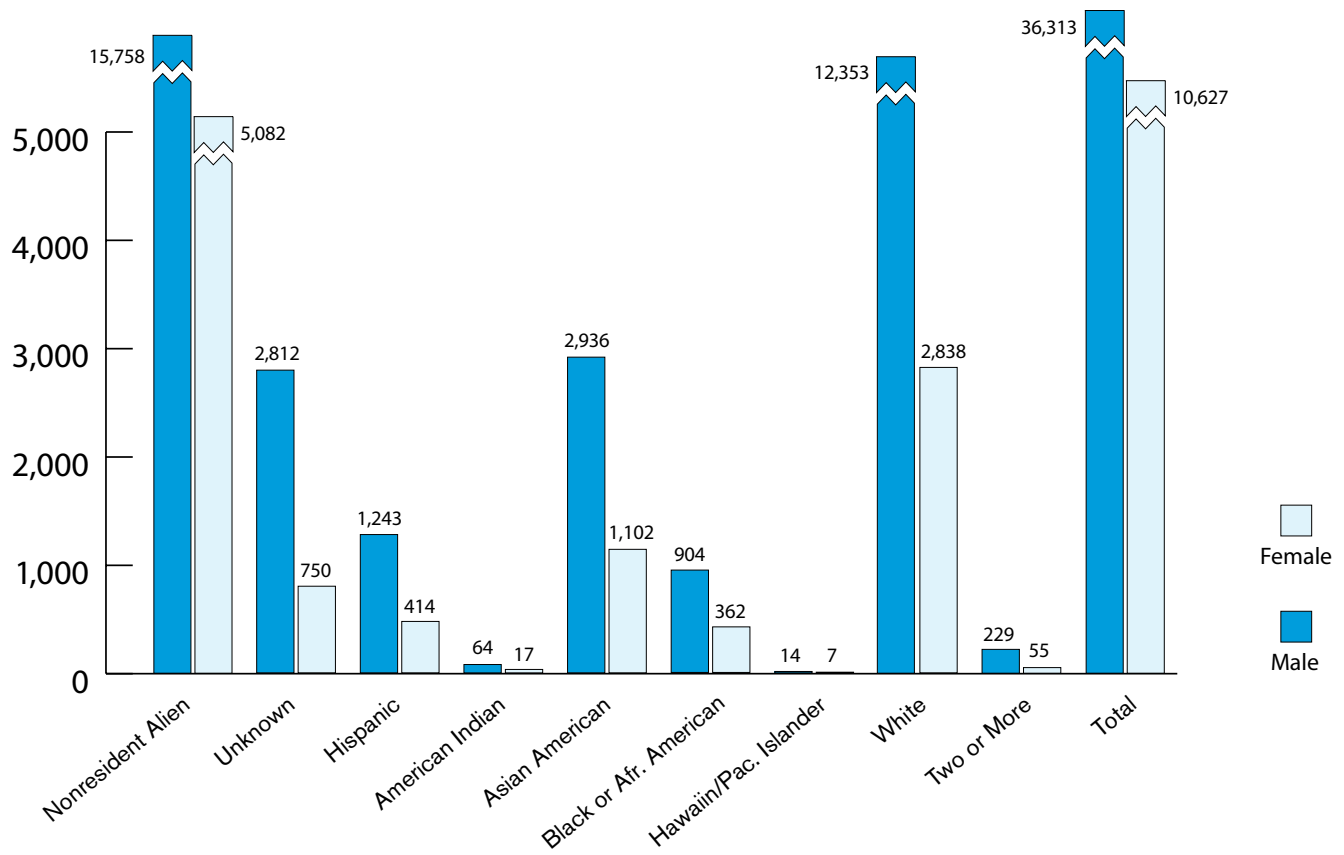
\* Data on ethnicity does not include foreign nationals. American Indians (0.3%), Hawaiian/Pacific Islanders (0.1%) and Two or More (1.1%) are combined under Other.

## MASTER'S DEGREES BY RESIDENCY, 2011



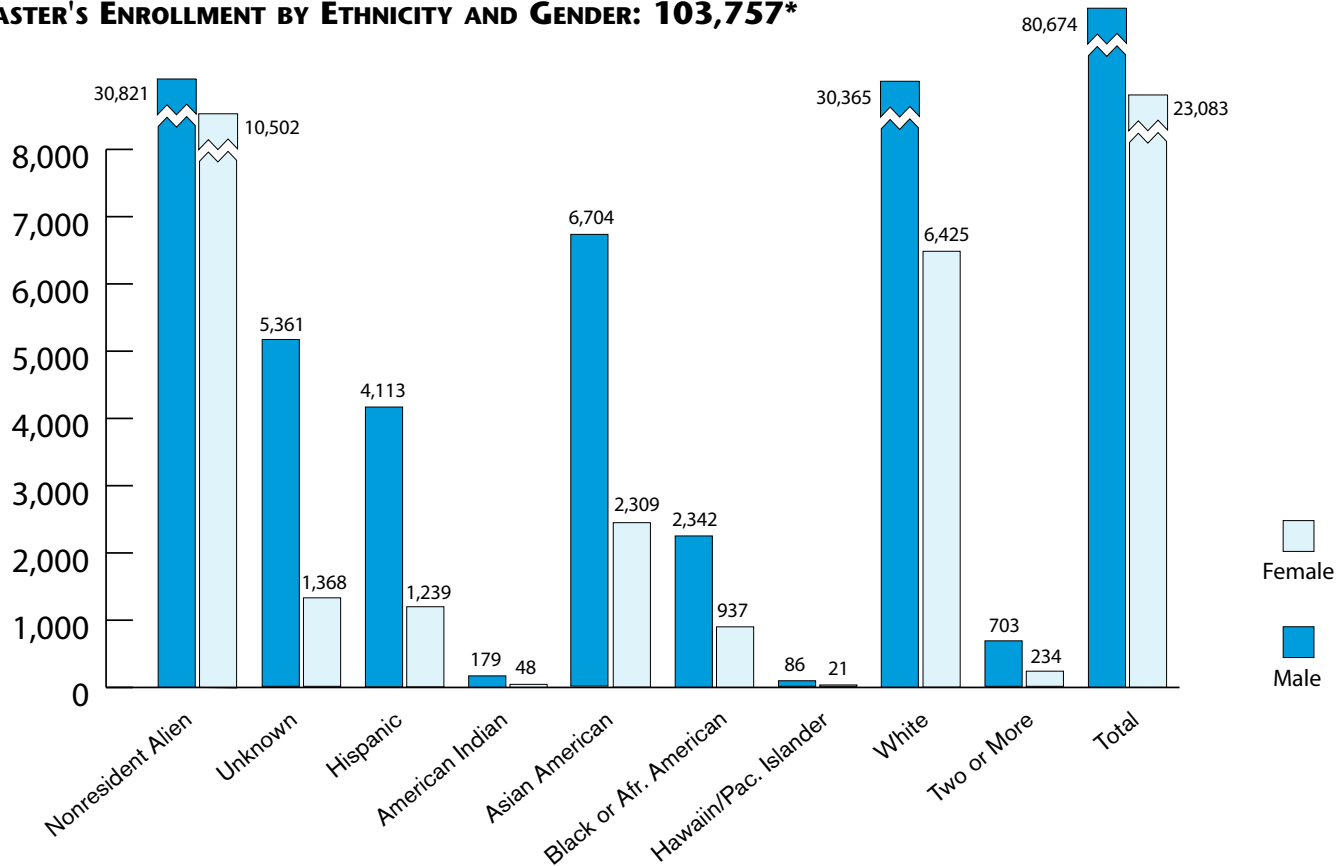
	2002	2003	2004	2005	2006	2007	2008	2009	2010
Nonresident Alien	42.1%	46.0%	45.5%	42.6%	39.8%	38.7%	41.7%	44.1%	46.1%
Permanent Resident	57.9%	54.0%	54.5%	57.4%	60.2%	61.3%	58.3%	55.9%	53.9%

**MASTER'S DEGREES AWARDED BY ETHNICITY AND GENDER: 46,940\***



\* Includes 99 male and 43 female graduates from schools in Puerto Rico.

**MASTER'S ENROLLMENT BY ETHNICITY AND GENDER: 103,757\***



\* Includes 516 Hispanic male and 177 Hispanic female enrolled students from schools in Puerto Rico.

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

1. Loyola Marymount University	39.5%
2. Catholic University of America	37.2%
3. Polytechnic Univ. of Puerto Rico	35.6%
4. University of Nevada, Las Vegas	35.0%
5. San Diego State University	34.2%
5. Manhattan College	34.2%
7. University of Mississippi	33.3%
8. University of North Texas	32.7%
8. Lehigh University	32.7%
10. University of Delaware	32.5%
11. Tuskegee University	32.1%
12. University of Maryland, College Park	32.0%
13. IUPUI, Indianapolis	31.4%
14. University of California, Santa Cruz	31.3%
15. Mercer University	31.0%
15. Purdue University, Calumet	31.0%
17. Stony Brook University	30.6%
18. University of Wyoming	30.4%
19. University of Iowa	30.1%
20. Univ. of Maryland, Balt. County	29.9%

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

### PERCENTAGE OF DOCTORAL DEGREES AWARDED TO WOMEN BY SCHOOL\*

1. University of Pittsburgh	38.6%
2. Johns Hopkins University	36.1%
3. University of California, Santa Cruz	35.3%
3. Univ. of Massachusetts, Amherst	35.3%
5. Stevens Institute of Technology	34.3%
6. University of Pennsylvania	33.3%
7. New Jersey Institute of Technology	32.4%
8. Drexel University	32.3%
8. University of Miami	32.3%
10. Louisiana State University	32.1%
11. University of California, Davis	31.6%
12. William Marsh Rice University	31.3%
13. University of Notre Dame	30.9%
14. Princeton University	30.8%
14. University of Houston	30.8%
16. University of Delaware	30.3%
17. Stony Brook University	29.4%
18. University of Washington	28.2%
19. Brown University	28.1%
19. Rutgers University	28.1%

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

### GRADUATE ENROLLMENT BY SCHOOL\*

1. University of Southern California	4,252
2. Georgia Institute of Technology	3,876
3. Stanford University	3,564
4. Johns Hopkins University	3,293
5. University of Michigan	3,233
6. North Carolina State University	2,899
7. University of Florida	2,882
8. Texas A&M University	2,870
9. Massachusetts Inst. of Technology	2,818
10. Univ. of Illinois, Urbana-Champaign	2,773
11. Purdue University	2,719
12. Arizona State University	2,445
13. Virginia Tech	2,336
14. Columbia University	2,286
15. University of Texas, Austin	2,188
16. University of Maryland, College Park	1,975
17. Pennsylvania State University	1,953
18. University of Minnesota, Twin Cities	1,945
19. University of California, Berkeley	1,882
20. University of California, Los Angeles	1,845
21. Polytechnic Institute of NYU	1,807
22. University of Washington	1,787
23. Ohio State University	1,748
24. Carnegie Mellon University	1,743
25. Stevens Institute of Technology	1,720
26. Cornell University	1,705
27. University of Pennsylvania	1,680
28. George Mason University	1,595
29. University of Colorado, Boulder	1,557
30. University of Texas, Arlington	1,553
31. San Jose State University	1,538
32. Northwestern University	1,531
33. University of Texas, Dallas	1,518
34. University of California, San Diego	1,493
35. University of Wisconsin, Madison	1,478
36. Northeastern University	1,419
37. New Jersey Institute of Technology	1,380
38. George Washington University	1,334
39. Colorado School of Mines	1,323
40. Clemson University	1,322
41. University of Central Florida	1,309
42. Stony Brook University	1,292
43. University of California, Davis	1,252
44. SUNY, Buffalo	1,238
45. Illinois Institute of Technology	1,123
46. Drexel University	1,079
47. Missouri Univ. of Science and Tech.	1,046
48. University of Utah	1,035
49. Iowa State University	998
50. University of Illinois, Chicago	985

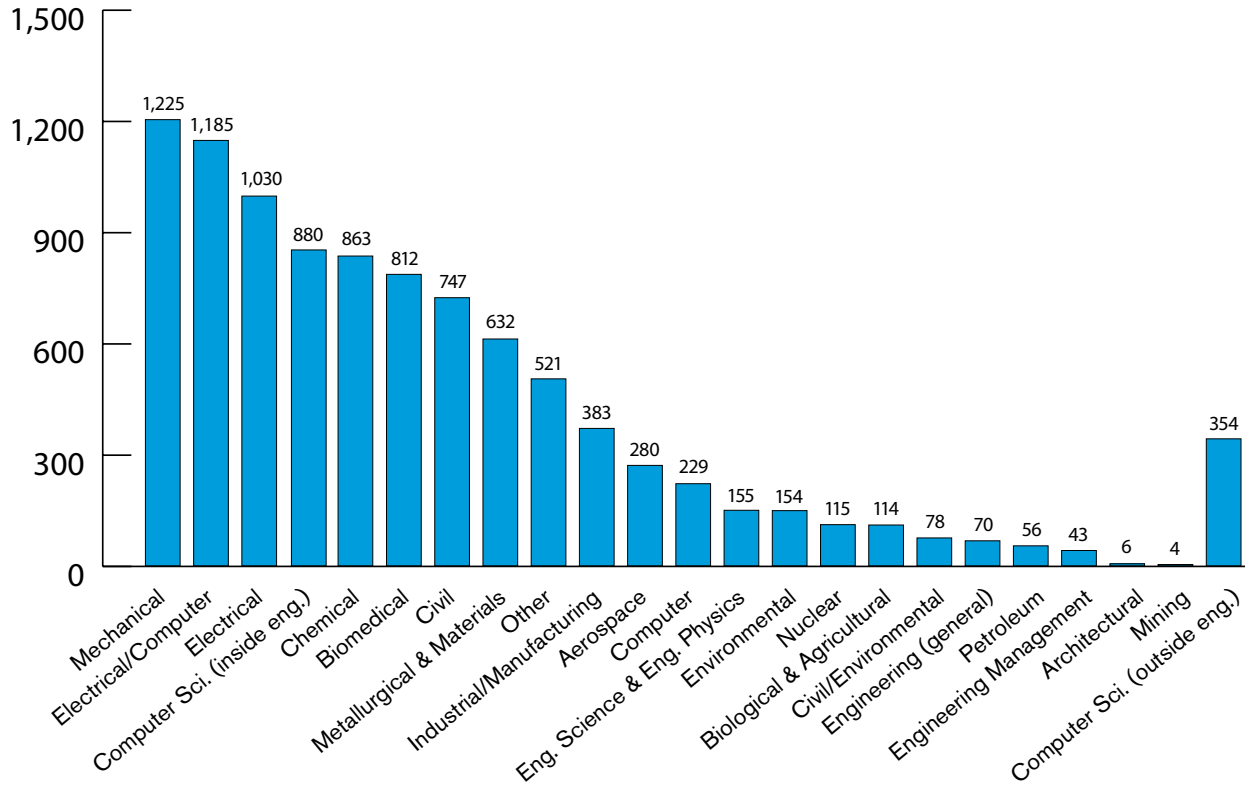
266 total schools reported.  
\*Includes both full-time and part-time

### ENGINEERING DOCTORAL DEGREES AWARDED BY SCHOOL

1. Massachusetts Inst. of Technology	304
2. Georgia Institute of Technology	281
3. Univ. of Illinois at Urbana-Champaign	275
4. Stanford University	271
5. University of Florida	234
6. University of California, Berkeley	229
7. Purdue University	224
8. University of Michigan	212
9. Texas A&M University	199
10. Pennsylvania State University	198
11. University of Texas, Austin	186
12. University of Maryland, College Park	158
13. Virginia Tech	154
14. University of Minnesota, Twin Cities	153
15. North Carolina State University	142
16. University of California, San Diego	135
17. Cornell University	134
17. University of California, Los Angeles	134
19. University of Southern California	133
20. University of Wisconsin, Madison	130
21. Arizona State University	120
21. Ohio State University	120
23. University of California, Davis	117
24. Carnegie Mellon University	113
25. University of Washington	110
26. Northwestern University	108
27. Columbia University	102
28. University of Colorado, Boulder	93
29. Princeton University	91
30. University of Virginia	90
31. Iowa State University	88
32. Clemson University	86
33. William Marsh Rice University	80
34. University of Arizona	79
35. Case Western Reserve University	78
36. Univ. of California, Santa Barbara	77
37. University of Utah	74
38. California Institute of Technology	72
38. Michigan State University	72
38. Johns Hopkins University	72
41. Rensselaer Polytechnic Institute	71
42. Boston University	70
43. Stony Brook University	68
44. SUNY, Buffalo	66
44. University of California, Irvine	66
44. University of Delaware	66
44. University of Pennsylvania	66
48. Drexel University	65
48. University of Central Florida	65
50. University of Connecticut	61

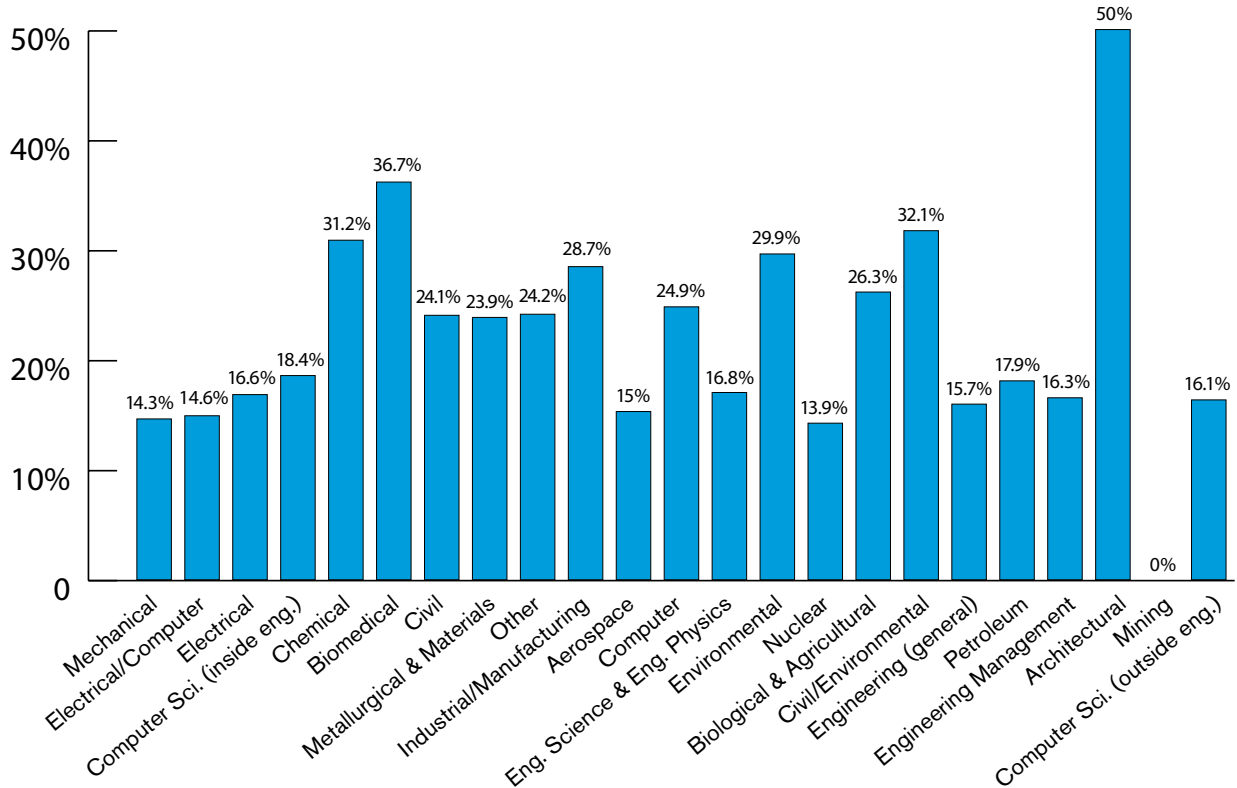
196 total schools reported.

**DOCTORAL DEGREES AWARDED BY DISCIPLINE: 9,582\***



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

**PERCENTAGE OF DOCTORAL DEGREES AWARDED TO WOMEN BY DISCIPLINE: 21.8%**



## DOCTORAL DEGREES AWARDED TO FOREIGN NATIONALS BY SCHOOL

1. Univ. of Illinois, Urbana-Champaign	160
2. University of Florida	155
3. Georgia Institute of Technology	154
4. Massachusetts Inst. of Technology	151
5. Texas A&M University	140
6. Purdue University	137
7. Stanford University	129
8. Pennsylvania State University	123
9. University of Texas, Austin	115
10. University of Michigan	100
11. Virginia Tech	98
12. University of Minnesota, Twin Cities	89
13. Arizona State University	85
14. University of Southern California	82
15. North Carolina State University	79
16. University of California, Berkeley	78
17. Ohio State University	77
18. University of Maryland, College Park	68
19. Iowa State University	66
19. University of California, Los Angeles	66
21. Cornell University	61
22. University of California, Davis	57
23. Carnegie Mellon University	56
23. University of Wisconsin, Madison	56
25. University of California, San Diego	55
26. Clemson University	54
26. SUNY, Buffalo	54
28. Northwestern University	53
28. Stony Brook University	53
30. Columbia University	52
31. University of Connecticut	48
32. University of Washington	46
33. Princeton University	45
34. Boston University	44
34. University of California, Riverside	44
36. Michigan State University	43
37. University of Texas at Arlington	42
38. Case Western Reserve University	41
38. University of Cincinnati	41
40. Johns Hopkins University	40
40. University of Texas, Dallas	40
40. Univ. of California, Santa Barbara	40
43. Rensselaer Polytechnic Institute	39
43. University of Virginia	39
45. University of Houston	38
45. University of Illinois at Chicago	38
45. William Marsh Rice University	38
48. University of Delaware	37
49. University of Central Florida	36
50. Drexel University	34

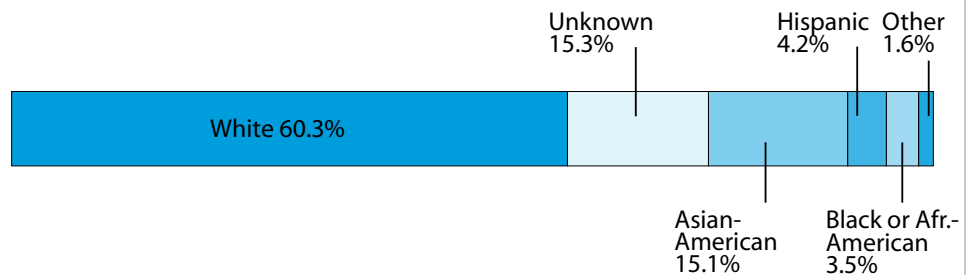
196 schools reported.

## DOCTORAL DEGREES BY GENDER, 2011



	2002	2003	2004	2005	2006	2007	2008	2009	2010
Female	17.4%	17.4%	17.8%	18.3%	20.2%	20.8%	21.1%	21.2%	22.9%
Male	82.6%	82.6%	82.2%	81.7%	79.8%	79.2%	78.9%	78.8%	77.1%

## DOCTORAL DEGREES BY ETHNICITY, 2011\*



	2002	2003	2004	2005	2006	2007	2008	2009	2010
Black or Afr. American	3.5%	3.4%	3.8%	3.7%	3.7%	3.6%	3.2%	3.8%	4.4%
Hispanic	3.9%	3.6%	3.5%	3.7%	3.0%	3.5%	3.6%	3.8%	5.2%
Other	11.4%	11.9%	14.0%	14.2%	15.1%	18.7%	19.5%	17.6%	1.0%
Asian American	14.6%	13.4%	14.0%	14.4%	16.6%	12.0%	12.4%	13.2%	14.0%
White	66.6%	66.7%	64.7%	64.0%	61.6%	62.2%	61.3%	61.6%	65.7%
Unknown	-	-	-	-	-	-	-	-	9.7%

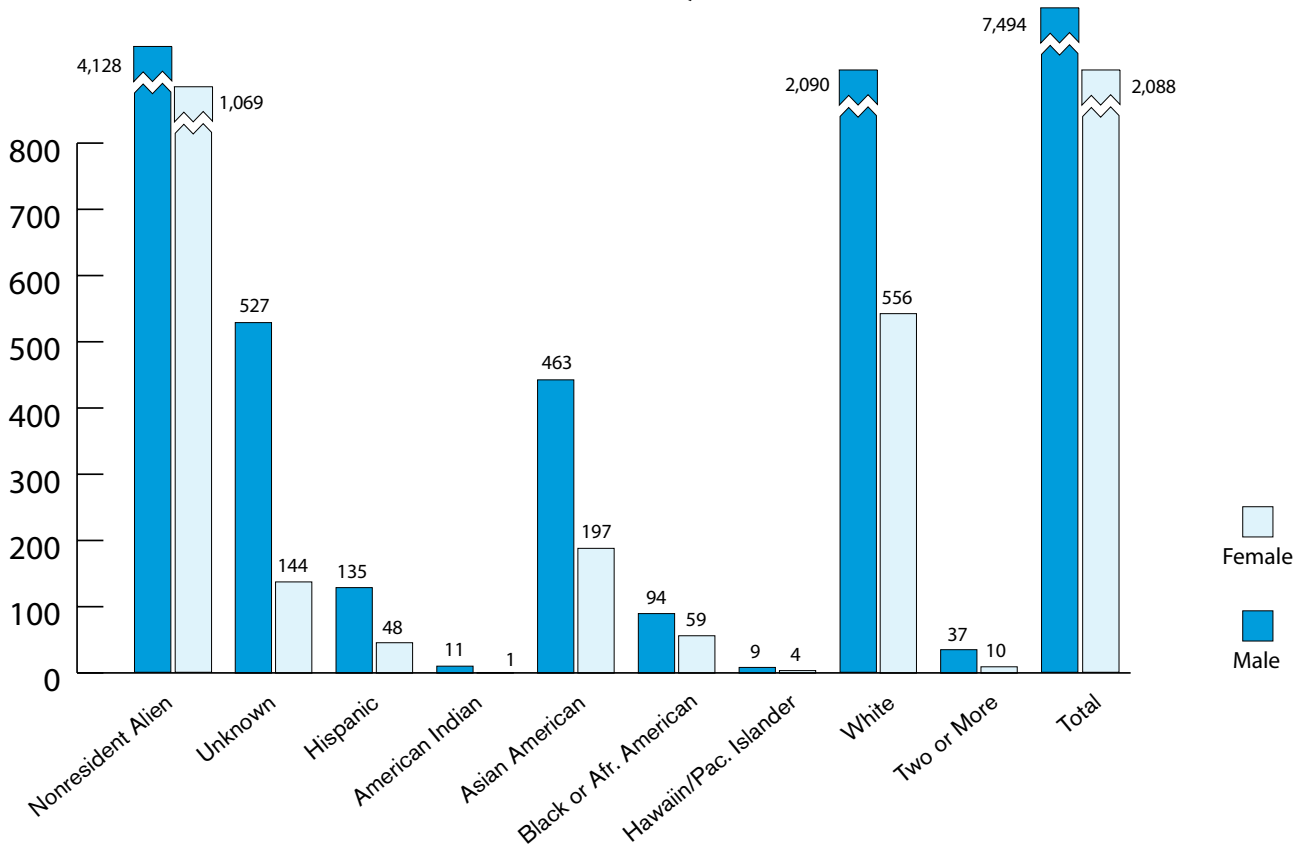
\* Data on ethnicity does not include foreign nationals. American Indians (0.3%), Hawaiian/Pacific Islanders (0.3%) and Two or More (1.0%) are combined under Other.

## DOCTORAL DEGREES BY RESIDENCY, 2011



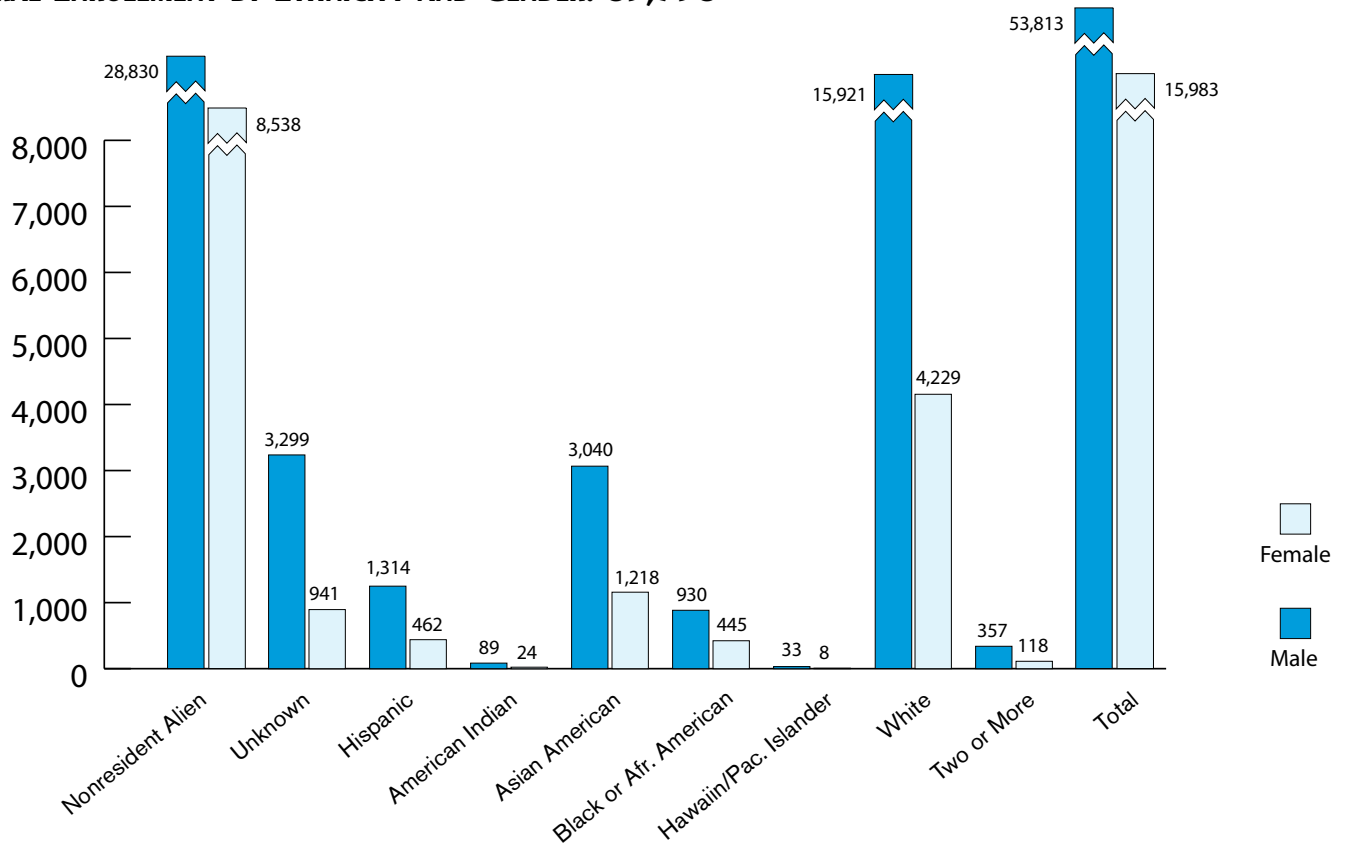
	2002	2003	2004	2005	2006	2007	2008	2009	2010
Nonresident Alien	54.0%	55.2%	57.8%	59.4%	61.7%	61.6%	58.3%	55.1%	54.2%
Permanent Resident	46.0%	44.8%	42.2%	40.6%	38.3%	38.4%	41.7%	44.9%	45.8%

**DOCTORAL DEGREES AWARDED BY ETHNICITY AND GENDER: 9,582\***



\* Includes 1 male and 2 female graduates from University of Puerto Rico, Mayaguez.

**DOCTORAL ENROLLMENT BY ETHNICITY AND GENDER: 69,796\***



\* Includes 53 Hispanic male and 29 Hispanic female enrolled students from schools in Puerto Rico.



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

1. Georgia Institute of Technology	1,716
2. Purdue University	1,394
2. Pennsylvania State University	1,394
4. Univ. of Illinois, Urbana-Champaign	1,211
5. Virginia Tech	1,175
6. Texas A&M University	1,161
7. University of Michigan	1,148
8. North Carolina State University	1,139
9. University of Texas, Austin	1,031
10. California Poly. State U., SLO	943
11. University of Florida	937
12. Ohio State University	881
13. Iowa State University	855
14. University of California, Berkeley	784
15. Rensselaer Polytechnic Institute	746
16. Missouri Univ. of Science and Tech	733
17. University of Minnesota, Twin Cities	722
18. University of California, Los Angeles	702
19. University of Wisconsin, Madison	681
20. University of Washington	673
21. Cornell University	656
22. University of California, San Diego	642
23. University of Maryland, College Park	640
24. Colorado School of Mines	619
25. California State Poly. U., Pomona	589
26. University of Central Florida	587
27. Michigan Technological University	585
28. Clemson University	569
29. Arizona State University	563
30. Louisiana State University	560
31. Massachusetts Inst. of Technology	557
32. Univ. of Puerto Rico, Mayaguez	526
33. University of Colorado, Boulder	525
34. SUNY, Buffalo	517
35. Drexel University	513
36. Oregon State University	505
37. Rutgers University	504
38. University of California, Irvine	491
39. Texas Tech University	472
40. Auburn University	460
40. University of Nebraska, Lincoln	460
42. University of California, Davis	458
43. West Virginia University	453
44. University of Virginia	451
44. Worcester Polytechnic Institute	451
46. University of Pittsburgh	434
47. University of Arizona	427
48. Kansas State University	410
49. University of Connecticut	402
50. Northeastern University	400

348 schools reported.

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

1. University of Southern California	1,209
2. Georgia Institute of Technology	985
3. University of Florida	875
4. Stanford University	870
5. University of Michigan	845
6. San Jose State University	788
7. Massachusetts Inst. of Technology	737
8. Stevens Institute of Technology	659
9. Cornell University	625
10. Johns Hopkins University	608
11. Texas A&M University	596
12. Columbia University	594
13. Carnegie Mellon University	586
14. Polytechnic Institute of NYU	510
15. University of Wisconsin, Madison	497
16. New Jersey Institute of Technology	488
17. Purdue University	478
18. University of Texas, Austin	474
19. North Carolina State University	468
20. Univ. of Illinois, Urbana-Champaign	463
21. George Washington University	420
22. Illinois Institute of Technology	411
23. University of Washington	408
24. Virginia Tech	406
25. Missouri Univ. of Science and Tech	400
26. University of Maryland, College Park	384
27. Pennsylvania State University	378
27. University of Colorado, Boulder	378
29. University of Texas, Arlington	375
30. Arizona State University	373
31. Northwestern University	370
32. George Mason University	359
33. Northeastern University	358
34. University of California, Los Angeles	355
35. SUNY, Buffalo	340
36. Colorado School of Mines	335
37. University of Bridgeport	333
38. University of Pennsylvania	315
39. University of California, Berkeley	310
40. Santa Clara University	304
41. Ohio State University	298
42. Worcester Polytechnic Institute	293
43. University of Central Florida	292
44. University of Louisville	288
45. California State U., Northridge	285
45. University of California, San Diego	285
47. University of Minnesota, Twin Cities	266
48. Drexel University	263
49. University of Houston	257
50. Lamar University	256

261 schools reported.

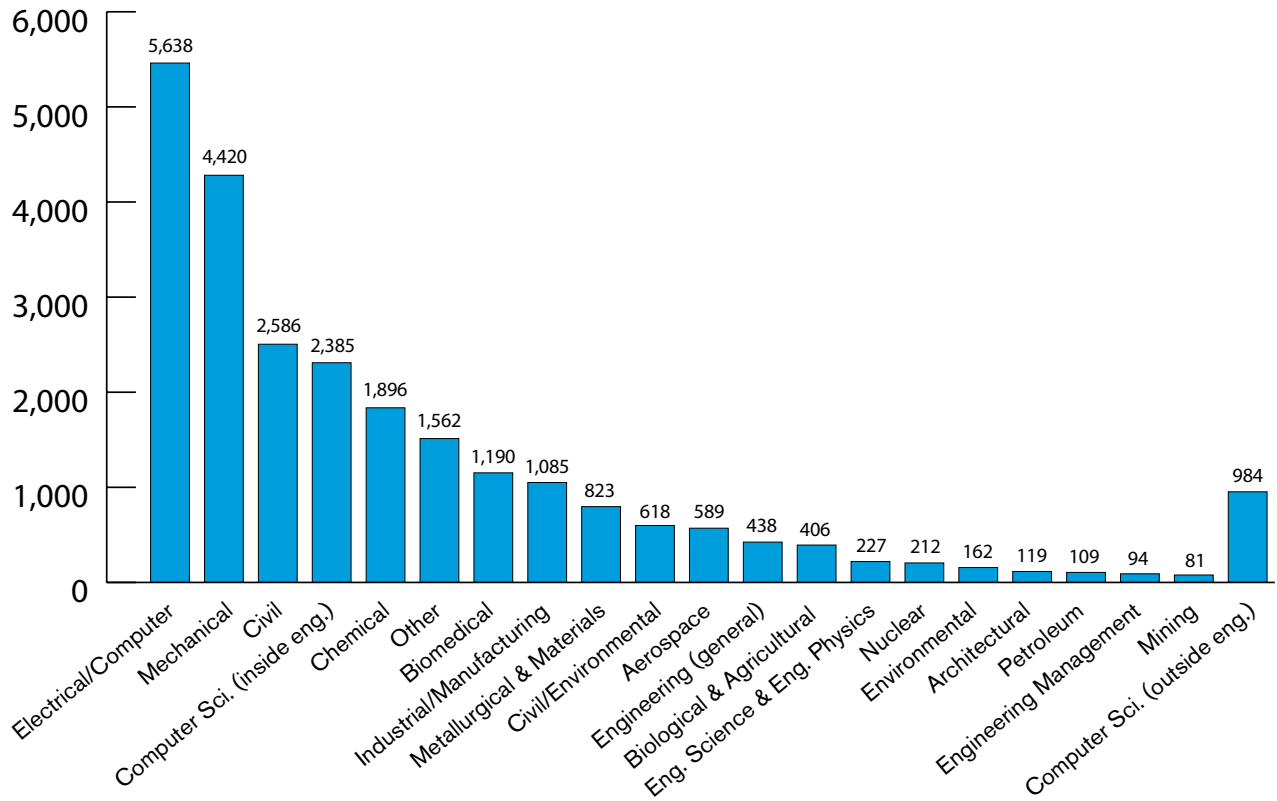
### ENGINEERING DOCTORAL DEGREES AWARDED BY SCHOOL (EXCLUDING COMPUTER SCIENCE)

1. Massachusetts Inst. of Technology	304
2. Georgia Institute of Technology	281
3. Stanford University	248
4. University of Florida	234
5. Univ. of Illinois, Urbana-Champaign	233
6. Purdue University	224
7. University of Michigan	212
8. University of California, Berkeley	198
9. University of Texas, Austin	186
10. Texas A&M University	179
11. Pennsylvania State University	171
12. University of Maryland, College Park	158
13. Virginia Tech	138
14. University of Wisconsin, Madison	130
15. University of Minnesota, Twin Cities	122
16. Cornell University	121
17. North Carolina State University	117
18. Carnegie Mellon University	113
19. University of Washington	110
20. University of California, San Diego	109
21. Northwestern University	105
21. University of California, Los Angeles	105
23. Ohio State University	100
24. Rensselaer Polytechnic Institute	98
25. Arizona State University	93
26. University of California, Davis	92
27. Iowa State University	88
28. University of Virginia	84
29. Columbia University	80
30. University of Arizona	79
30. University of Colorado, Boulder	79
32. Clemson University	76
32. Princeton University	76
34. Case Western Reserve University	73
35. Rensselaer Polytechnic Institute	71
35. William Marsh Rice University	71
37. Boston University	70
38. California Institute of Technology	68
39. Johns Hopkins University	66
39. University of California, Irvine	66
41. University of Delaware	64
42. Drexel University	63
42. Univ. of California, Santa Barbara	63
44. University of Utah	62
45. Michigan State University	61
46. Duke University	58
47. Rutgers University	57
48. University of Pittsburgh	57
49. Stony Brook University	55
50. University of Notre Dame	55

194 schools reported.

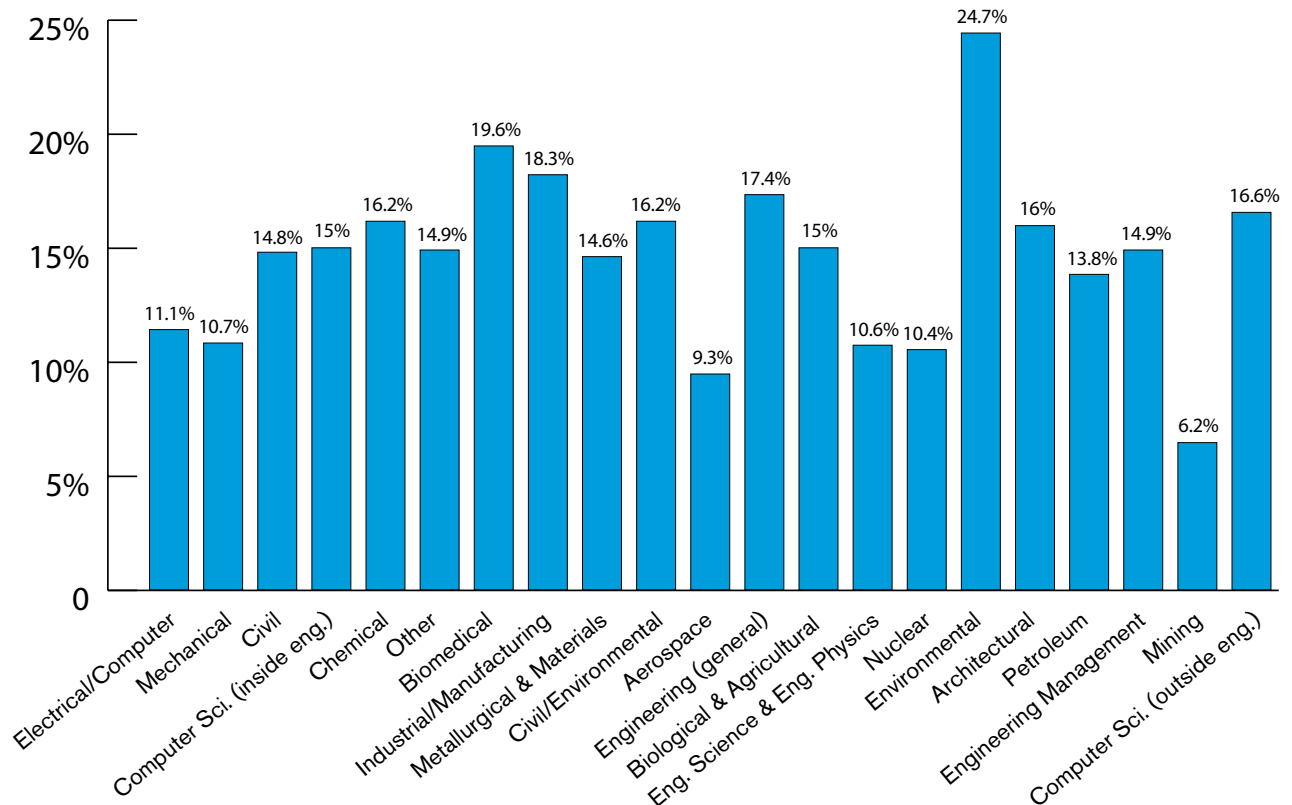
Note: All enrollment and degree data in this book includes computer science programs administered by the engineering colleges. This page displays the largest degree programs at each level without the computer science programs.

**NUMBER OF TENURED/TENURE-TRACK FACULTY BY DISCIPLINE: 24,640\***



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

**PERCENTAGE OF WOMEN TENURED/TENURE-TRACK FACULTY BY DISCIPLINE: 13.9%**

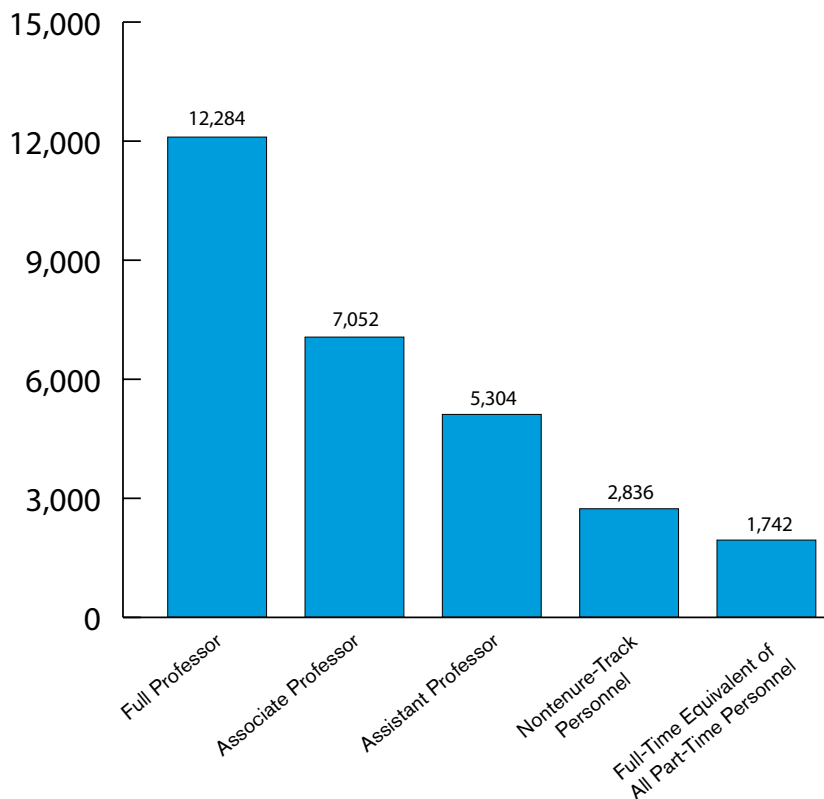


**TENURED/TENURE-TRACK FACULTY MEMBERS BY SCHOOL**

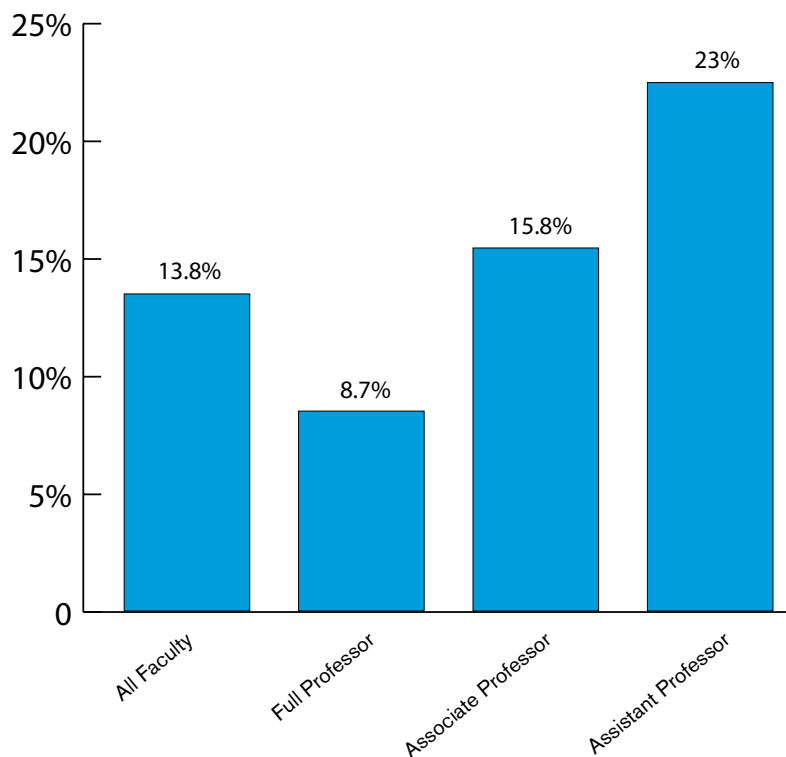
1. Georgia Institute of Technology	396
2. Univ. of Illinois, Urbana-Champaign	385
3. Massachusetts Inst. of Technology	371
4. University of Michigan	362
5. Pennsylvania State University	353
6. Virginia Tech	331
7. North Carolina State University	328
8. Texas A&M University	325
9. Purdue University	315
10. University of Texas, Austin	266
11. Ohio State University	265
12. University of Florida	264
13. Cornell University	237
14. University of Washington	228
15. Iowa State University	221
16. Stanford University	218
17. University of California, Berkeley	217
18. University of Minnesota, Twin Cities	211
19. University of California, Davis	201
20. University of Maryland, College Park	200
21. Arizona State University	199
22. Clemson University	192
23. Northwestern University	188
24. University of California, San Diego	186
24. University of Wisconsin, Madison	186
26. University of Southern California	174
27. University of Puerto Rico, Mayaguez	172
28. Colorado School of Mines	170
28. Michigan State University	170
30. University of Nebraska, Lincoln	162
31. Missouri Univ. of Science and Tech.	157
32. Columbia University	156
32. University of Tennessee, Knoxville	156
32. University of Utah	156
35. University of California, Los Angeles	154
36. Carnegie Mellon University	152
37. University of Arizona	150
38. Auburn University	149
38. University of Kentucky	149
40. University of Colorado, Boulder	148
41. Wentworth Institute of Technology	146
42. California Poly. State U., SLO	144
42. Johns Hopkins University	144
44. SUNY, Buffalo	143
45. Rutgers University	140
46. Drexel University	138
46. University of Texas, Arlington	138
48. Michigan Technological University	136
49. University of Delaware	134
50. University of Virginia	130

346 schools reported.

**NUMBER OF TEACHING PERSONNEL BY RANK: 29,218**



**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.	37.1%
2. Rowan University	32.3%
3. Santa Clara University	30.6%
4. University of the Pacific	27.6%
5. California State Univ., Los Angeles	26.7%
6. Bucknell University	25.0%
7. University of Hartford	25.0%
8. Boise State University	24.0%
8. Univ. of North Carolina, Chapel Hill	24.0%
10. Polytechnic Univ. of Puerto Rico	23.9%
11. Oakland University	23.4%
12. New York Institute of Technology	23.3%
12. University of New Haven	23.3%
14. University of Vermont	22.9%
15. Tufts University	22.2%
15. Univ. of Maryland, Baltimore County	22.2%
17. Mercer University	21.9%
18. University of Louisville	21.5%
19. University of Puerto Rico, Mayaguez	20.9%
20. University of Washington	20.6%
21. Northwestern University	20.2%
22. Lawrence Technological University	20.0%
23. San Jose State University	19.7%
24. Rose-Hulman Inst. of Technology	19.6%

24. George Mason University	19.6%
24. Drexel University	19.6%
27. Univ. of Tennessee, Chattanooga	19.5%
28. California State Univ., Long Beach	19.2%
29. Miami University	19.0%
30. University of Colorado, Boulder	18.9%
31. University of Michigan	18.8%
31. University of Wisconsin, Platteville	18.8%
33. William Marsh Rice University	18.6%
34. Jackson State University	18.5%
34. Univ. of Massachusetts, Dartmouth	18.5%
36. University of California, Davis	18.4%
37. University of New Hampshire	18.3%
38. California Poly. State U., SLO	18.1%
39. University of Delaware	17.9%
40. University of Massachusetts, Lowell	17.8%
40. California State Univ., Sacramento	17.8%
42. U.S. Naval Academy	17.7%
43. Clarkson University	17.6%
44. University of Illinois, Chicago	17.4%
45. Grand Valley State University	17.2%
46. Northeastern University	17.0%
47. Massachusetts Inst. of Technology	16.7%
47. Lafayette College	16.7%
47. Oregon Institute of Technology	16.7%
47. Villanova University	16.7%

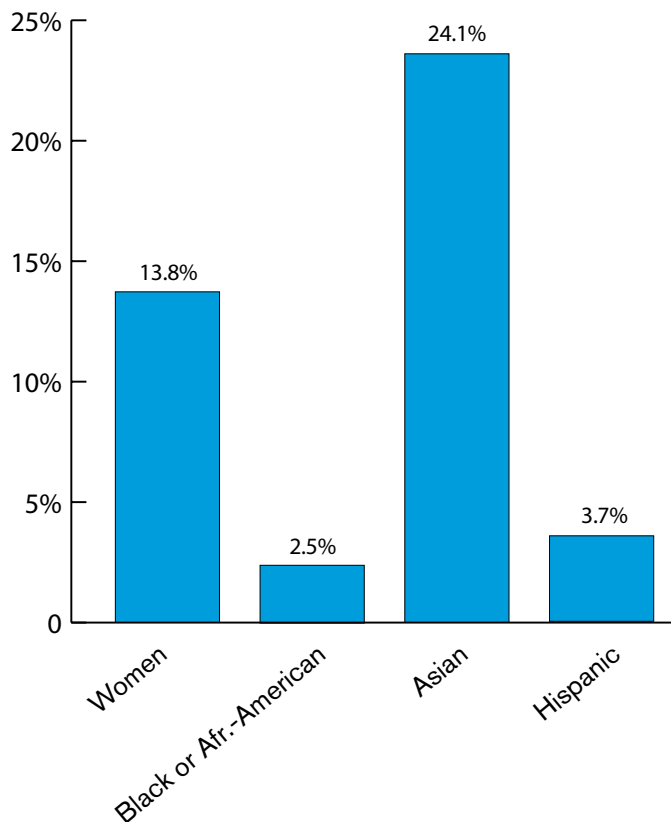
\*Minimum of 25 faculty members.  
243 schools fit this criterion.

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

1. University of Michigan	68
2. Massachusetts Inst. of Technology	62
3. Georgia Institute of Technology	58
4. Pennsylvania State University	54
5. Purdue University	49
6. Texas A&M University	48
7. University of Washington	47
8. Univ. of Illinois, Urbana-Champaign	43
9. Virginia Tech	39
10. North Carolina State University	38
10. Northwestern University	38
12. Ohio State University	37
12. University of California, Davis	37
14. University of Puerto Rico, Mayaguez	36
15. Stanford University	35
16. Arizona State University	33
17. Cornell University	32
17. University of Texas, Austin	32
19. Iowa State University	30
19. University of California, Berkeley	30
19. University of Florida	30

352 schools reported.

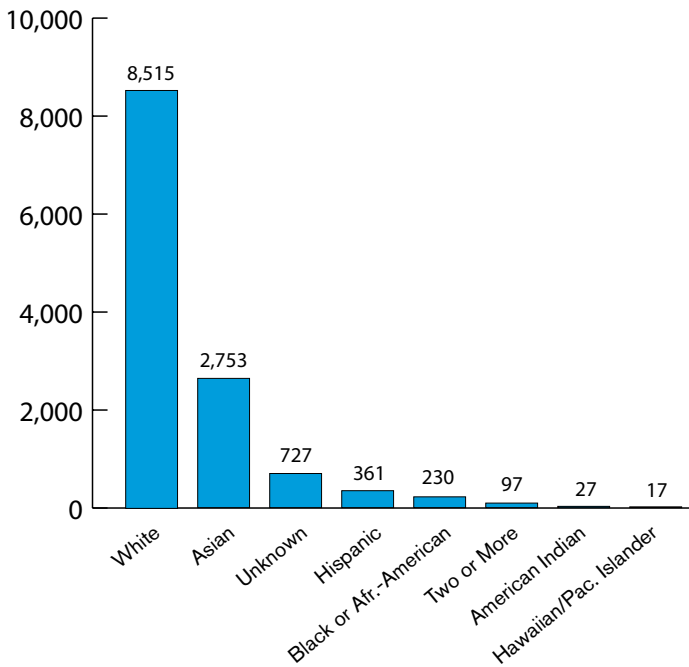
**PERCENTAGE OF WOMEN AND MINORITY FACULTY, 2002-2011\***



	Women	African-American	Asian	Hispanic
2002	9.2%	2.0%	17.8%	3.0%
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%

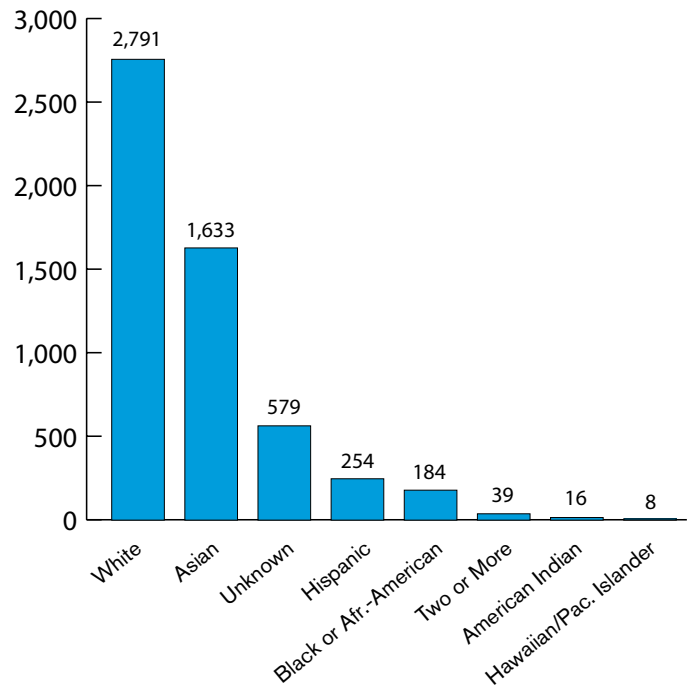
\*Note: Includes faculty data from University of Puerto Rico, Mayaguez, Polytechnic University of Puerto Rico and Turabo University

**NUMBER OF FULL PROFESSORS BY RACE/ETHNICITY (TEACHING): 12,727\***



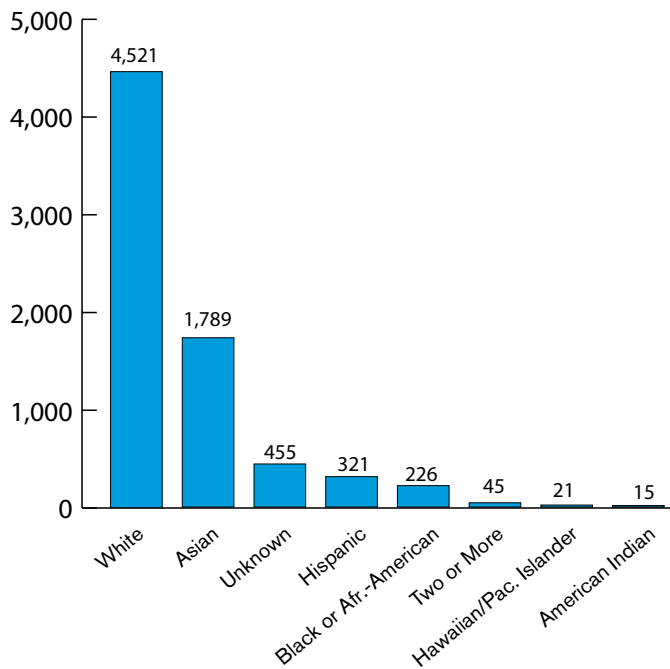
\*Note: Includes 121 Hispanic faculty from University of Puerto Rico, Mayaguez, Polytechnic University of Puerto Rico and Turabo University.

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



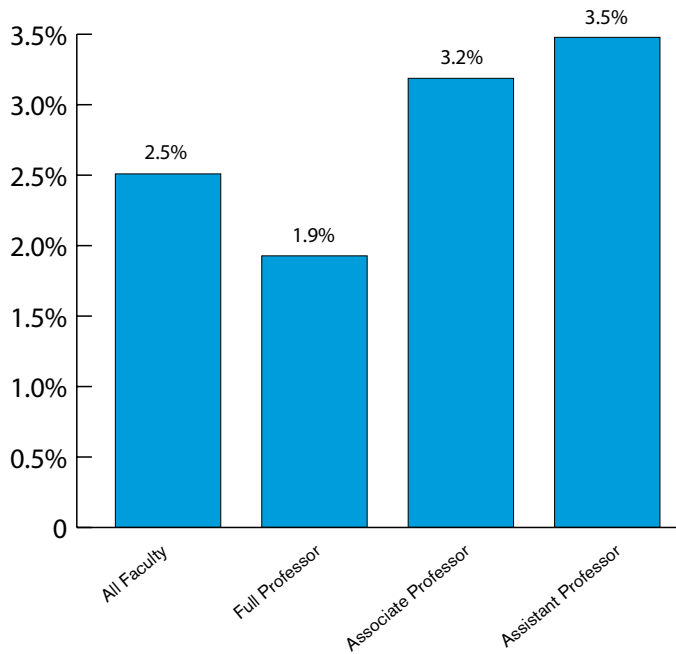
\*Note: Includes 67 Hispanic faculty from University of Puerto Rico, Mayaguez, Polytechnic University of Puerto Rico and Turabo University.

**NUMBER OF ASSOCIATE PROFESSORS BY RACE/ETHNICITY (TEACHING): 7,393\***

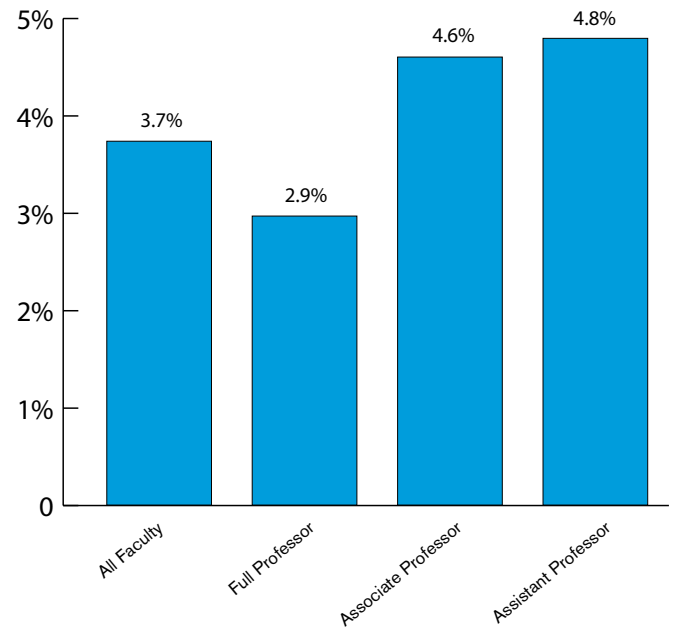


\*Note: Includes 79 Hispanic faculty from University of Puerto Rico, Mayaguez, Polytechnic University of Puerto Rico and Turabo University.

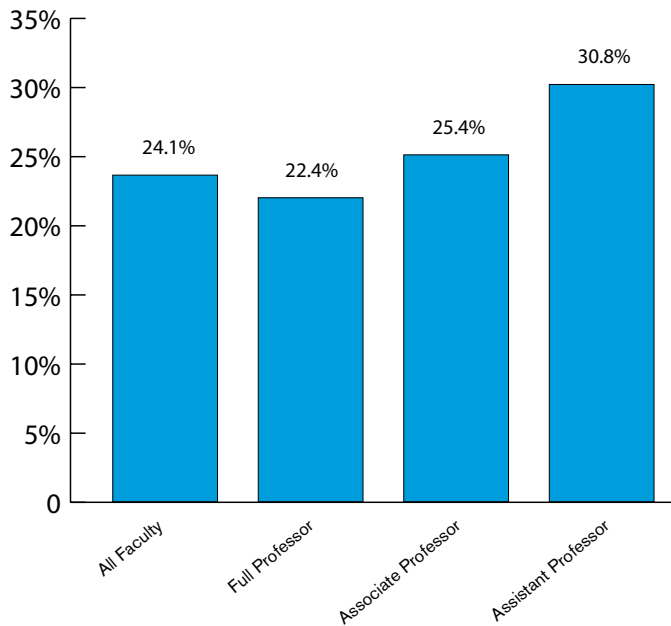
**PERCENTAGE OF AFRICAN-AMERICAN TENURED/TENURE-TRACK FACULTY BY LEVEL\***



**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. Howard University	32
2. North Carolina A&T State Univ.	20
3. Prairie View A&M University	19
4. Southern University and A&M College	18
5. Georgia Institute of Technology	17
6. Morgan State University	14
7. FAMU-FSU College of Engineering	13
8. Massachusetts Inst. of Technology	12
8. North Carolina State University	12
10. Pennsylvania State University	11
10. Tuskegee University	11
10. University of Michigan	11
13. Virginia Tech	10
14. Cornell University	9
15. Purdue University	8
15. University of Florida	8
15. Univ. of Illinois, Urbana-Champaign	8
18. Clemson University	7
18. Jackson State University	7
18. New Jersey Institute of Technology	7
18. University of Missouri, Kansas City	7

352 schools reported.

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

1. Univ. of Illinois, Urbana-Champaign	105
2. Georgia Institute of Technology	100
3. Texas A&M University	94
4. Purdue University	92
5. Ohio State University	84
6. University of Florida	81
7. North Carolina State University	77
8. University of Michigan	76
9. Iowa State University	72
10. Arizona State University	66
10. University of Texas, Arlington	66
12. Michigan State University	64
13. Virginia Tech	61
14. SUNY, Buffalo	60
15. University of California, Los Angeles	59
16. University of Washington	58
17. Pennsylvania State University	57
17. University of Texas, Dallas	57
19. University of Central Florida	56
20. University of Texas, Austin	55

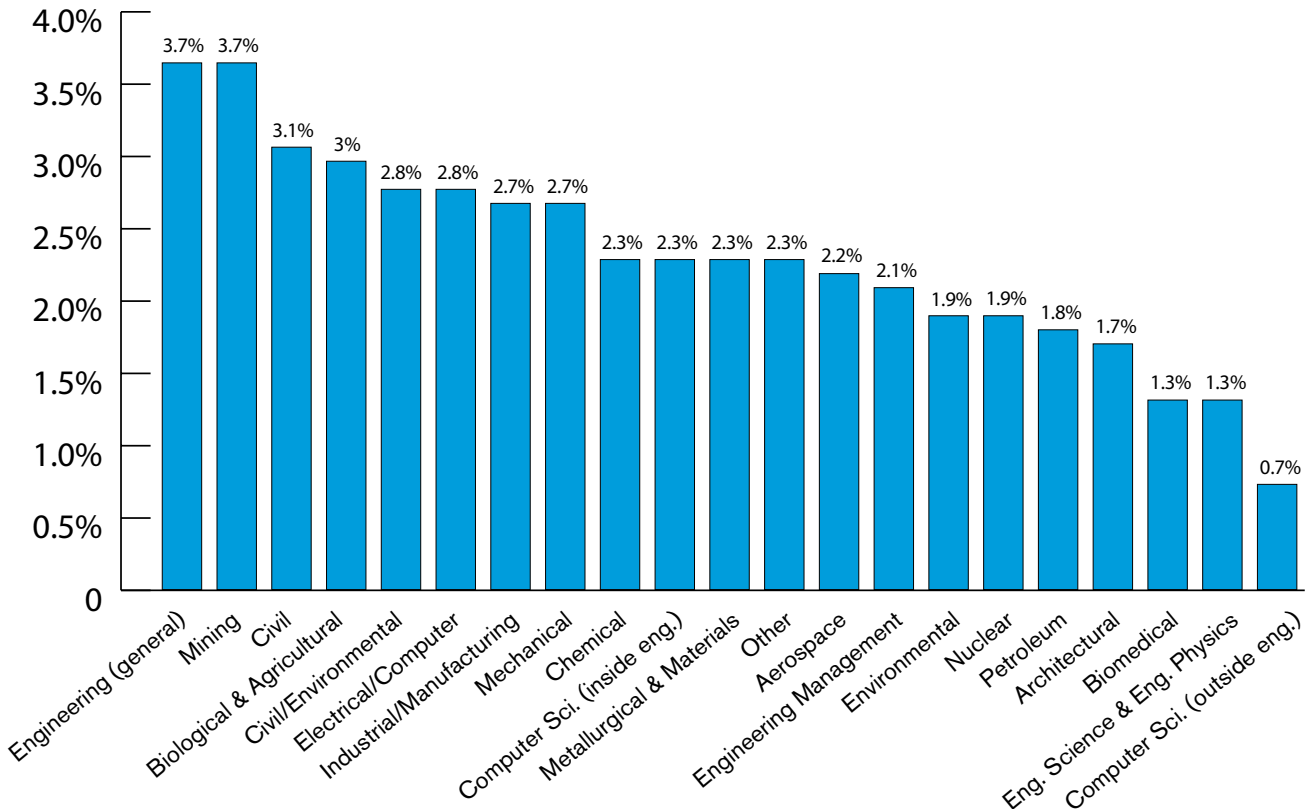
352 schools reported.

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

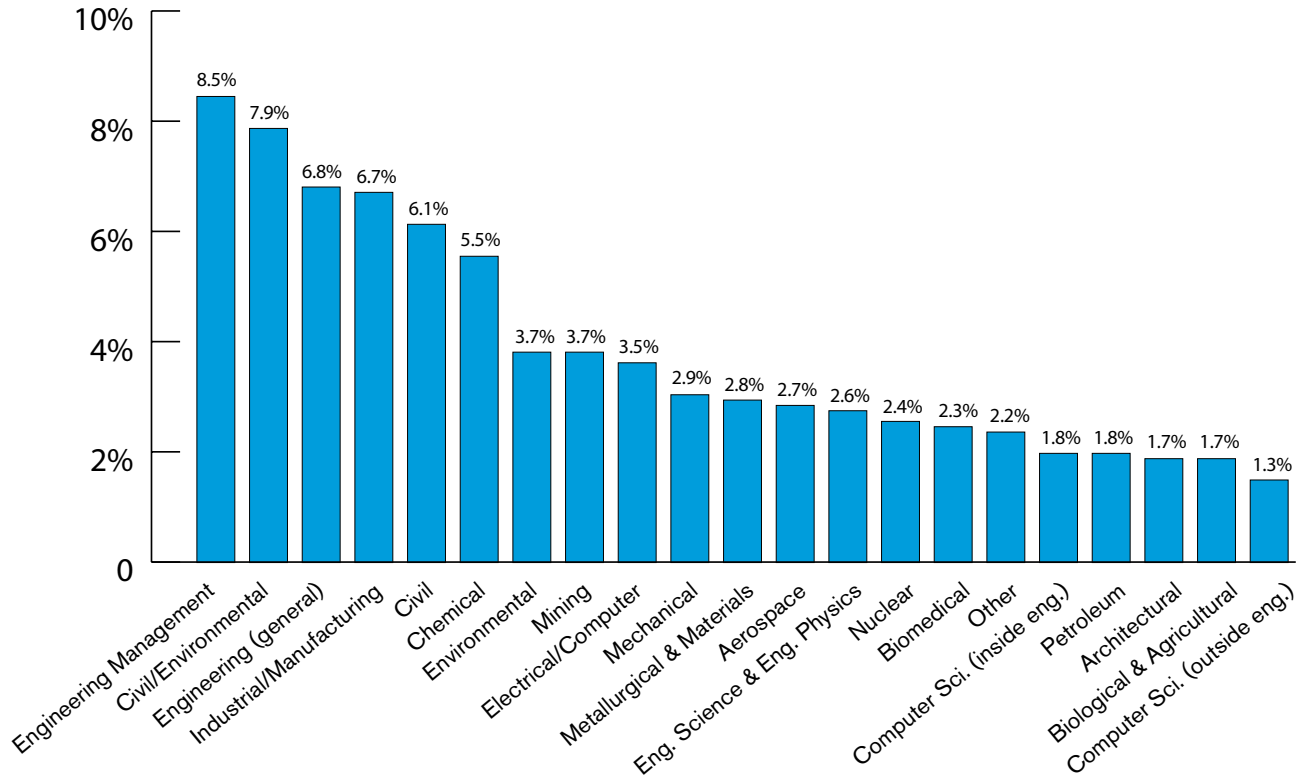
1. Univ. of Puerto Rico, Mayaguez	150
2. Polytechnic Univ. of Puerto Rico	63
3. Texas A&M University	23
3. University of Texas, El Paso	23
5. Turabo University	17
6. Pennsylvania State University	16
6. Virginia Tech	16
8. Massachusetts Inst. of Technology	14
8. Purdue University	14
10. Georgia Institute of Technology	13
10. University of Texas, Austin	13
12. New Mexico State University	12
12. Univ. of Illinois, Urbana-Champaign	12
14. Arizona State University	11
14. Stanford University	11
16. University of Arizona	10
16. University of California, Berkeley	10
16. University of Florida	10
19. University of Colorado, Boulder	9
19. University of South Florida	9

352 schools reported.

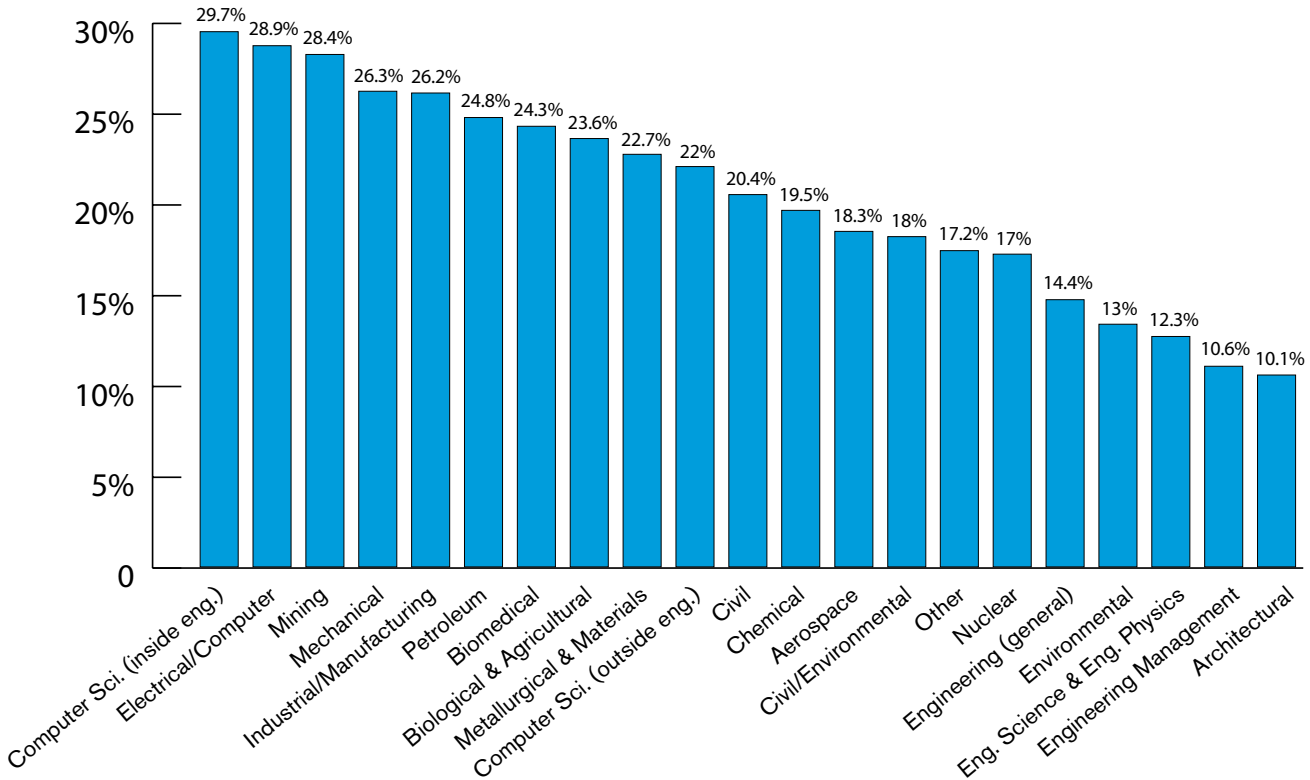
**PERCENTAGE OF AFRICAN-AMERICAN TENURED/TENURE-TRACK FACULTY BY DISCIPLINE: 2.5%**



**PERCENTAGE OF HISPANIC TENURED/TENURE-TRACK FACULTY BY DISCIPLINE: 3.7%**



**PERCENTAGE OF ASIAN-AMERICAN TENURED/TENURE-TRACK FACULTY BY DISCIPLINE: 24.1%**





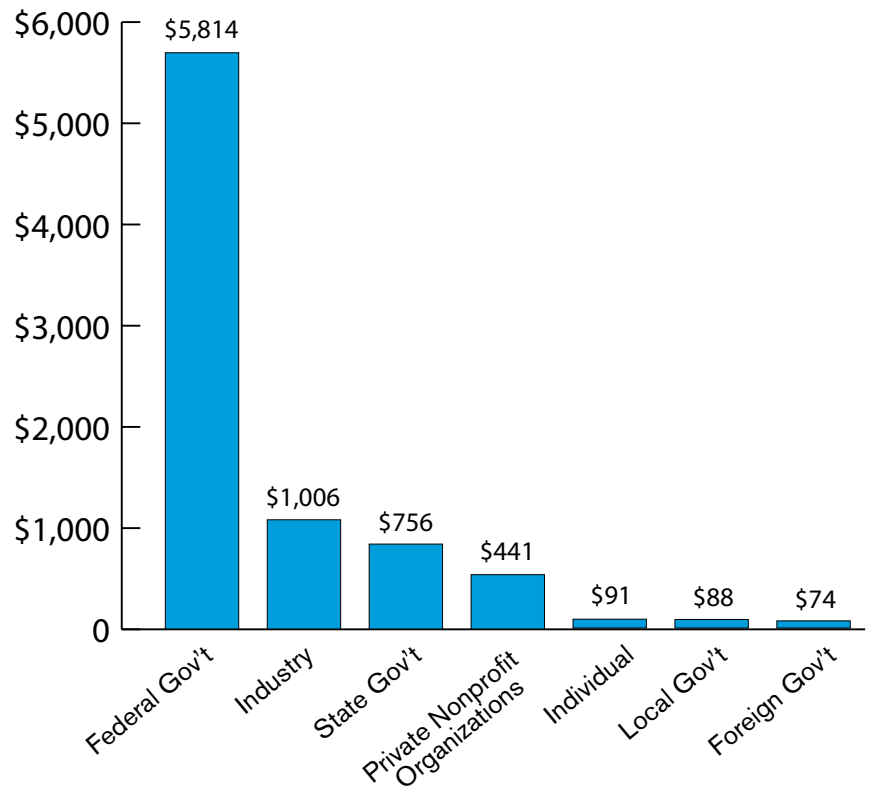
## RESEARCH EXPENDITURES BY SCHOOL

(IN MILLIONS)

1. Massachusetts Inst. of Technology	\$332.5
2. Texas A&M University	\$274.3
3. Univ. of Illinois, Urbana-Champaign	\$220.5
4. Georgia Institute of Technology	\$211.5
5. Purdue University	\$206.0
6. Stanford University	\$197.4
7. University of Michigan	\$188.5
8. University of California, Berkeley	\$186.9
9. Carnegie Mellon University	\$185.0
10. University of Texas, Austin	\$168.7
11. University of Southern California	\$168.4
12. University of Maryland, College Park	\$154.8
13. Virginia Tech	\$152.7
14. North Carolina State University	\$148.4
15. University of California, San Diego	\$146.4
16. Pennsylvania State University	\$137.7
17. Cornell University	\$134.6
18. University of Wisconsin, Madison	\$127.3
19. Ohio State University	\$126.9
20. University of Washington	\$113.0
21. Northwestern University	\$107.7
22. University of Minnesota, Twin Cities	\$104.0
23. University of Pennsylvania	\$102.3
24. University of California, Los Angeles	\$100.5
25. University of Dayton	\$87.3
26. University of Rochester	\$86.2
27. University of Utah	\$86.0
28. California Institute of Technology	\$84.5
29. Duke University	\$80.9
30. University of California, Davis	\$79.5
31. Iowa State University	\$78.4
32. University of Colorado, Boulder	\$78.1
32. University of Pittsburgh	\$78.1
34. Arizona State University	\$76.1
35. University of Central Florida	\$75.1
36. Johns Hopkins University	\$72.1
37. Princeton University	\$71.8
38. Boston University	\$70.6
39. University of California, Irvine	\$70.2
40. University of Florida	\$66.3
41. Vanderbilt University	\$62.8
42. Colorado State University	\$62.4
43. University of Virginia	\$62.1
44. Auburn University	\$57.4
45. University of Tennessee, Knoxville	\$57.0
46. SUNY, Buffalo	\$55.7
47. University of Arizona	\$52.5
48. Mississippi State University	\$52.4
49. University of Delaware	\$51.8
50. Rutgers University	\$51.7

208 total schools reported.

## RESEARCH EXPENDITURES BY SOURCE IN MILLIONS OF DOLLARS: \$8,269



## COMPUTER SCIENCE RESEARCH EXPENDITURES LOCATED OUTSIDE OF ENGINEERING BY SCHOOL

(IN MILLIONS)

1. Carnegie Mellon University	\$88.5
2. Georgia Institute of Technology	\$28.6
3. University of Maryland, College Park	\$24.6
4. University of Texas, Austin	\$23.9
5. University of Wisconsin, Madison	\$21.6
6. Univ. of Massachusetts, Amherst	\$18.2
7. Purdue University	\$13.8
8. University of California, Irvine	\$12.8
9. University of Alabama, Huntsville	\$8.4
10. Duke University	\$6.6
11. Northeastern University	\$6.0
11. University of Houston	\$6.0
13. University of Arizona	\$5.0
13. Univ. of North Carolina, Charlotte	\$5.0
15. Rensselaer Polytechnic Institute	\$4.4
16. Rutgers University	\$4.1
17. Boston University	\$2.8
18. Worcester Polytechnic Institute	\$2.7
18. University of Pittsburgh	\$2.7
20. Louisiana State University	\$2.0

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	Embry Riddle Aero. U., Daytona Beach	11.07
2	California State Poly. U., Pomona	8.07
3	California Poly. State U., SLO	7.26
4	Tufts University	6.92
5	Arkansas Tech University	6.55
6	Pennsylvania State University, Erie	6.33
7	U.S. Naval Academy	6.18
8	California State University, Fresno	6.14
9	Florida International University	6.10
10	University of Central Florida	5.96
11	Embry Riddle Aero. U., Prescott	5.89
12	Rensselaer Polytechnic Institute	5.83
13	California State University, Chico	5.82
14	Polytechnic Univ. of Puerto Rico	5.72
15	Tuskegee University	5.55
16	California State Univ., Sacramento	5.53
17	Dartmouth College	5.50
18	San Jose State University	5.49
19	SUNY, Binghamton	5.47
20	Kettering University	5.46

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

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

1	George Washington University	1.15
2	Howard University	1.22
3	Yale University	1.26
4	Wayne State University	1.35
5	California Institute of Technology	1.53
6	Princeton University	1.57
7	University of Memphis	1.76
8	Harvard University	1.77
9	University of New Haven	1.77
10	Univ. of California, Santa Barbara	1.77
11	Massachusetts Inst. of Technology	1.80
12	Univ. of Tennessee, Chattanooga	1.80
13	University of Idaho	1.82
14	Northwestern University	1.84
15	Southern Univ. and A&M College	1.85
16	University of Rochester	1.85
17	Stanford University	1.89
18	University of Alaska, Fairbanks	1.92
19	William Marsh Rice University	1.93
20	University of New Mexico	2.00

\*Minimum of 50 degrees awarded.  
265 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 Alabama, Huntsville	\$2.33
2.	University of Rochester	\$1.72
3.	Carnegie Mellon University	\$1.64
4.	University of Pennsylvania	\$1.55
5.	Kansas State University	\$1.49
6.	Colorado State University	\$1.45
7.	Yale University	\$1.44
8.	Oklahoma State University	\$1.43
9.	University of Iowa	\$1.40
10.	Duke University	\$1.39
10.	University of Kentucky	\$1.39
12.	Texas A&M University	\$1.38
13.	University of Pittsburgh	\$1.37
14.	New Jersey Institute of Technology	\$1.33
15.	University of Tennessee, Knoxville	\$1.29
16.	University of Southern California	\$1.27
17.	University of Oklahoma	\$1.19
17.	Mississippi State University	\$1.19
19.	City College of the CUNY	\$1.18
19.	Univ. of Massachusetts, Amherst	\$1.18
21.	California Institute of Technology	\$1.17
22.	University of Utah	\$1.16
23.	University of Central Florida	\$1.15
24.	Vanderbilt University	\$1.12
25.	Massachusetts Inst. of Technology	\$1.09
26.	University of California, San Diego	\$1.08
26.	Harvard University	\$1.08
28.	University of California, Irvine	\$1.06
28.	Ohio State University	\$1.06
30.	University of Arkansas	\$1.05
30.	North Carolina State University	\$1.05
32.	University of Washington	\$1.03
33.	Boston University	\$1.01
33.	Auburn University	\$1.01
35.	University of Nevada, Reno	\$1.00
35.	Cornell University	\$1.00
35.	Colorado School of Mines	\$1.00
35.	Johns Hopkins University	\$1.00
35.	Northwestern University	\$1.00
40.	Virginia Tech	\$0.99
41.	University of Maryland, College Park	\$0.98
41.	University of Wisconsin, Madison	\$0.98
43.	University of South Carolina	\$0.97
44.	Missouri Univ. of Science and Tech.	\$0.95
44.	University of New Mexico	\$0.95
46.	Dartmouth College	\$0.94
47.	University of Nebraska, Lincoln	\$0.93
48.	Purdue University	\$0.92
49.	University of California, Santa Cruz	\$0.91
49.	Rutgers University	\$0.91
49.	University of Texas, Austin	\$0.91

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

**HIGHEST PERCENTAGE OF DOCTORAL DEGREES TO FOREIGN NATIONALS BY SCHOOL\***

1.	University of North Texas	85.3%
2.	University of Cincinnati	83.7%
3.	SUNY, Buffalo	81.8%
4.	University of California, Riverside	81.5%
5.	University of Texas, Arlington	79.2%
6.	University of Connecticut	78.7%
7.	Louisiana State University	78.6%
8.	Stony Brook University	77.9%
9.	Lehigh University	76.2%
10.	Brown University	75.0%
10.	Iowa State University	75.0%
10.	Northeastern University	75.0%
13.	Illinois Institute of Technology	74.4%
14.	Florida International University	73.8%
15.	New Jersey Institute of Technology	73.5%
15.	Univ. of Massachusetts, Amherst	73.5%
17.	University of Houston	73.1%
18.	Syracuse University	72.2%
19.	FAMU-FSU College of Engineering	72.0%
20.	Washington State University	71.9%

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

**LOWEST PERCENTAGE OF DOCTORAL DEGREES TO FOREIGN NATIONALS BY SCHOOL\***

1.	University of Colorado, Boulder	21.5%
2.	University of Notre Dame	29.1%
3.	University of Pennsylvania	31.8%
4.	University of California, Berkeley	34.1%
5.	Wayne State University	37.0%
6.	University of Iowa	37.1%
7.	University of California, San Diego	40.7%
8.	University of California, Santa Cruz	41.2%
9.	Colorado School of Mines	41.7%
10.	University of Washington	41.8%
11.	Vanderbilt University	42.9%
12.	University of Maryland, College Park	43.0%
13.	University of Wisconsin, Madison	43.1%
13.	Duke University	43.1%
15.	University of Virginia	43.3%
16.	George Mason University	44.0%
16.	Southern Methodist University	44.0%
18.	University of Missouri	44.2%
19.	University of Utah	44.6%
20.	Cornell University	45.5%

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

## BACHELOR'S DEGREES BY DISCIPLINE 2002-2011

Bachelor's Degrees	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Aerospace	1,711	2,011	2,232	2,371	2,722	2,788	2,930	3,057	3,218	3,459
Architectural	513	627	590	722	631	625	646	723	753	743
Biological/Agricultural	556	603	601	635	646	659	623	631	719	796
Biomedical	1,315	1,628	2,019	2,410	2,917	2,969	3,237	3,644	3,670	4,066
Chemical	5,529	5,233	4,801	4,521	4,452	4,551	4,850	5,185	5,948	6,487
Civil	8,066	8,192	8,142	8,247	8,935	9,402	10,132	10,508	11,027	12,154
Civil/Environmental <sup>1</sup>	—	—	—	212	291	445	464	558	591	709
Computer	4,720	5,746	5,838	5,455	4,901	4,046	3,808	3,394	3,340	3,381
Computer Science (inside eng.)	6,842	8,649	9,156	8,419	7,330	6,446	5,964	5,652	6,049	6,708
Electrical	11,402	11,994	12,500	12,459	11,915	11,467	10,790	9,859	9,634	9,942
Electrical/Computer	2,597	2,782	2,700	2,924	2,825	2,425	2,216	2,194	2,175	2,153
Engineering (general)	1,069	1,105	1,138	1,179	1,176	1,246	1,160	1,246	1,335	1,465
Engineering Management	227	296	302	303	238	274	331	309	336	315
Eng. Science & Eng. Physics	489	451	501	383	431	460	472	431	526	496
Environmental	465	516	576	522	437	454	486	503	587	698
Industrial/Manufacturing	3,575	3,769	3,790	3,647	3,664	3,503	3,367	3,510	3,744	3,727
Mechanical	13,247	13,801	14,182	14,947	16,063	16,701	17,324	17,375	18,391	19,241
Metallurgical & Materials	838	859	817	840	909	963	1,095	1,035	1,152	1,161
Mining	112	96	85	92	120	119	153	190	191	213
Nuclear	145	135	202	275	342	402	415	378	414	469
Other	3,106	2,422	2,488	2,724	2,902	2,942	3,211	3,351	3,794	3,730
Petroleum	257	250	233	315	339	428	496	654	753	888
<b>TOTAL</b>	<b>66,781</b>	<b>71,165</b>	<b>72,893</b>	<b>73,602</b>	<b>74,186</b>	<b>73,315</b>	<b>74,170</b>	<b>74,387</b>	<b>78,347</b>	<b>83,001</b>

<sup>1</sup> New discipline added in 2005.

## ENROLLMENT BY CLASS 2002-2011

UNDERGRAD ENROLLMENT	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Freshmen	98,353	97,706	97,514	95,961	102,125	106,110	110,543	113,588	118,831	122,820
Sophomores	78,107	80,768	80,083	78,317	79,883	83,753	88,227	94,111	97,909	102,125
Juniors	78,619	80,931	80,511	78,232	79,244	80,647	86,835	92,758	97,519	102,102
Seniors	113,501	117,298	117,988	114,741	112,950	115,180	117,586	127,046	136,426	144,683
<b>TOTAL FULL TIME</b>	<b>368,580</b>	<b>376,703</b>	<b>376,096</b>	<b>367,576</b>	<b>374,202</b>	<b>385,690</b>	<b>403,191</b>	<b>427,503</b>	<b>450,685</b>	<b>471,730</b>
<b>TOTAL PART TIME</b>	<b>30,649</b>	<b>33,414</b>	<b>32,008</b>	<b>31,212</b>	<b>31,331</b>	<b>30,971</b>	<b>31,828</b>	<b>32,085</b>	<b>34,903</b>	<b>38,470</b>

## MASTER'S DEGREES BY DISCIPLINE 2002-2011

MASTERS DEGREES	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Aerospace	735	720	915	1,043	1,094	1,056	1,096	1,075	1,166	1,398
Architectural	98	111	160	164	112	116	119	121	131	125
Biological/Agricultural	150	139	191	173	182	149	155	171	197	213
Biomedical	652	762	862	1,007	1,326	1,156	1,221	1,396	1,447	1,558
Chemical	1,054	1,136	1,321	1,404	1,204	1,036	1,051	1,084	1,162	1,354
Civil	3,410	3,638	3,745	3,875	3,835	3,368	3,437	3,659	4,088	4,739
Civil/Environmental <sup>1</sup>	—	—	—	78	109	178	223	249	282	279
Computer	1,485	1,800	1,735	1,557	1,510	1,479	1,662	1,880	1,712	1,783
Computer Science (inside eng.)	4,096	5,163	5,797	5,735	5,197	4,913	4,924	5,373	5,230	5,497
Electrical	3,597	4,419	5,656	5,615	5,256	5,026	5,735	6,137	6,345	6,666
Electrical/Computer	3,348	3,653	4,393	4,243	3,753	3,532	3,757	3,682	3,459	3,799
Engineering (general)	377	607	642	539	671	602	612	729	745	906
Engineering Management	1,352	1,663	1,764	1,818	1,817	2,114	2,036	2,240	2,595	2,484
Eng. Science & Eng. Physics	417	344	315	282	315	205	194	170	248	216
Environmental	517	488	579	635	571	552	524	552	639	724
Industrial/Manufacturing	2,502	2,766	3,262	3,138	2,663	2,565	2,669	2,986	2,990	3,359
Mechanical	3,566	3,680	4,461	4,767	4,631	4,485	4,647	4,757	5,066	5,915
Metallurgical & Materials	568	642	737	743	702	702	715	771	771	852
Mining	34	27	46	38	48	49	54	51	29	47
Nuclear	141	212	197	181	246	255	268	264	305	324
Other	2,809	3,026	2,826	3,259	3,532	3,232	3,655	4,063	4,152	4,320
Petroleum	181	200	233	256	241	213	232	222	264	382
<b>TOTAL</b>	<b>31,089</b>	<b>35,196</b>	<b>39,837</b>	<b>40,550</b>	<b>39,015</b>	<b>36,983</b>	<b>38,986</b>	<b>41,632</b>	<b>43,023</b>	<b>46,940</b>

<sup>1</sup> New discipline added in 2005.

## DOCTORAL DEGREES BY DISCIPLINE 2002-2011

DOCTORAL DEGREES	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Aerospace	211	197	210	259	244	259	252	276	254	280
Architectural	4	2	7	6	2	8	11	7	7	6
Biological/Agricultural	68	69	90	68	66	65	88	80	87	114
Biomedical	213	240	339	333	436	536	662	722	733	812
Chemical	632	592	655	805	834	898	888	836	905	863
Civil	628	618	644	725	767	770	706	707	681	747
Civil/Environmental <sup>1</sup>	—	—	—	20	29	51	100	87	92	78
Computer	76	95	125	115	191	193	216	230	248	229
Computer Science (inside eng.)	350	410	494	606	761	867	847	863	849	880
Electrical	627	644	720	834	939	1,064	1,006	959	992	1,030
Electrical/Computer	776	761	901	938	1,112	1,234	1,169	1,055	1,038	1,185
Engineering (general)	32	47	44	46	75	56	64	65	57	70
Engineering Management	26	30	40	35	39	37	35	44	46	43
Eng. Science & Eng. Physics	100	102	109	111	131	143	133	150	160	155
Environmental	83	89	124	112	129	133	138	143	134	154
Industrial/Manufacturing	274	275	306	302	348	398	401	381	352	383
Mechanical	796	792	855	964	1,132	1,161	1,140	1,216	1,078	1,225
Metallurgical & Materials	342	388	442	464	519	584	617	598	603	632
Mining	11	12	7	11	16	15	13	12	6	4
Nuclear	64	81	61	76	81	88	103	87	114	115
Other	429	398	403	457	460	447	447	511	517	521
Petroleum	30	28	28	46	40	48	50	54	42	56
<b>TOTAL</b>	<b>5,772</b>	<b>5,870</b>	<b>6,604</b>	<b>7,333</b>	<b>8,351</b>	<b>9,055</b>	<b>9,086</b>	<b>9,083</b>	<b>8,995</b>	<b>9,582</b>

<sup>1</sup> New discipline added in 2005.

## UNDERGRADUATE ENROLLMENT BY DISCIPLINE 2002-2011

UNDERGRAD ENROLLMENT	2002		2003		2004		2005		2006
	Full Time	Part Time	Full Time	Part Time	Full Time	Part Time	Full Time	Part Time	Full Time
Aerospace	9,386	386	10,834	476	11,436	409	15,882	588	15,945
Architectural	2,537	102	2,793	126	2,878	116	4,392	134	3,986
Biological/Agricultural	2,816	58	2,878	68	2,629	47	2,978	72	3,038
Biomedical	9,178	146	10,716	230	12,566	399	14,213	464	15,411
Chemical	22,641	1,328	21,926	1,310	22,088	1,274	21,727	1,323	23,455
Civil	39,031	3,451	41,442	3,911	43,590	3,874	42,007	3,448	44,389
Civil/Environmental <sup>1</sup>	—	—	—	—	—	—	1,264	185	1,790
Computer Science (inside eng.)	32,668	4,077	35,448	4,400	31,646	3,800	27,577	4,678	27,062
Electrical/Computer	102,983	11,158	99,658	11,525	91,366	10,646	79,883	8,977	75,302
Engineering (general)	7,864	413	7,607	536	7,052	635	16,140	680	18,139
Engineering Management	663	65	921	62	911	47	1,239	37	1,014
Eng. Science & Eng. Physics	2,310	88	2,246	48	2,332	39	3,161	486	3,533
Environmental	734	56	850	77	793	60	2,007	112	2,270
Industrial/Manufacturing	13,376	1,116	13,621	1,122	13,573	1,043	13,065	1,170	12,970
Mechanical	71,902	6,345	76,482	7,255	80,863	6,770	78,202	6,636	80,288
Metallurgical & Materials	3,087	126	3,181	110	3,215	147	3,577	175	3,862
Mining	456	47	450	20	566	26	626	26	764
Nuclear	960	39	1,259	42	1,371	60	1,562	61	1,667
Other	44,497	1,576	42,760	2,045	45,393	2,572	35,943	1,865	36,503
Petroleum	1,491	72	1,631	51	1,828	44	2,131	95	2,814
<b>TOTAL</b>	<b>368,580</b>	<b>30,649</b>	<b>376,703</b>	<b>33,414</b>	<b>376,096</b>	<b>32,008</b>	<b>367,576</b>	<b>31,212</b>	<b>374,202</b>

<sup>1</sup> 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.

2006	2007		2008		2009		2010		2011	
Part Time	Full Time	Part Time	Full Time	Part Time	Full Time	Part Time	Full Time	Part Time	Full Time	Part Time
654	16,551	633	17,561	664	18,108	601	18,482	785	18,909	879
187	4,205	199	4,033	130	3,618	179	3,677	183	3,381	161
68	3,103	103	3,191	78	3,778	96	3,911	127	4,291	151
481	16,153	518	17,798	519	19,558	504	21,166	556	23,403	664
1,269	25,852	1,431	28,636	1,326	32,050	1,476	34,506	1,563	36,499	1,819
3,783	47,296	3,709	50,167	4,430	53,436	4,784	53,520	5,008	53,215	4,940
245	2,437	259	2,546	247	2,929	235	3,185	302	3,163	313
4,355	27,348	4,202	27,766	4,081	29,959	4,092	32,921	4,690	36,983	5,347
8,979	72,353	8,389	73,343	8,158	75,061	7,952	77,270	8,427	80,607	8,867
526	21,944	1,039	22,856	1,186	22,903	1,226	25,035	1,022	27,159	1,159
35	1,034	31	1,224	23	1,036	24	1,005	36	1,114	36
525	2,510	105	2,643	99	2,497	84	2,618	66	2,650	96
128	2,761	171	3,180	308	4,027	338	4,549	360	4,788	363
1,054	12,921	1,019	13,476	1,184	14,224	1,033	14,751	1,151	15,429	1,426
6,786	82,246	6,843	85,249	7,089	91,856	7,082	96,164	7,687	101,476	9,016
184	4,019	210	4,312	164	4,520	146	4,970	173	5,273	182
37	836	51	881	51	974	68	1,039	80	1,112	63
75	1,771	64	1,832	41	2,207	60	2,399	89	2,529	99
1,877	36,955	1,897	38,468	1,922	40,536	1,912	44,914	2,311	44,647	2,584
83	3,395	98	4,029	128	4,226	193	4,603	287	5,102	305
<b>31,331</b>	<b>385,690</b>	<b>30,971</b>	<b>403,191</b>	<b>31,828</b>	<b>427,503</b>	<b>32,085</b>	<b>450,685</b>	<b>34,903</b>	<b>471,730</b>	<b>38,470</b>

## MASTER'S ENROLLMENT BY DISCIPLINE 2002-2011

MASTER'S ENROLLMENT	2002	2003	2004	2005	2006	2007		
	Total	Total	Total	Total	Total	Full Time	Part Time	Total
Aerospace	1,631	1,984	2,162	2,428	2,385	1,893	600	2,493
Architectural	204	221	250	288	144	100	27	127
Biological/Agricultural	370	421	369	399	364	343	48	391
Biomedical	1,718	2,029	2,314	2,313	2,390	1,781	674	2,455
Chemical	2,958	2,854	2,746	2,328	1,963	1,391	682	2,073
Civil	9,180	9,435	9,298	7,554	7,499	5,193	2,637	7,830
Civil/Environmental <sup>1</sup>	—	—	—	211	252	280	166	446
Computer Science (inside eng.)	10,815	12,132	10,897	10,973	10,835	7,311	4,397	11,708
Electrical/Computer	28,125	28,420	26,049	22,794	23,681	17,013	8,919	25,932
Engineering (general)	1,008	1,132	1,209	1,736	1,710	812	937	1,749
Engineering Management	2,367	2,299	2,984	4,210	4,625	1,755	3,330	5,085
Eng. Science & Eng. Physics	493	499	364	377	327	192	96	288
Environmental	452	739	584	1,297	1,274	718	451	1,169
Industrial/Manufacturing	7,120	6,874	6,068	5,713	5,505	4,033	1,781	5,814
Mechanical	11,990	12,340	11,666	10,222	10,291	7,352	3,678	11,030
Metallurgical & Materials	1,229	1,109	1,027	1,213	1,207	965	325	1,290
Mining	110	110	112	112	115	83	40	123
Nuclear	284	312	310	475	522	443	156	599
Other	8,923	8,266	9,012	7,489	7,790	3,629	4,757	8,386
Petroleum	465	489	493	515	556	429	156	585
<b>TOTAL</b>	<b>89,442</b>	<b>91,665</b>	<b>87,914</b>	<b>82,647</b>	<b>83,435</b>	<b>55,716</b>	<b>33,857</b>	<b>89,573</b>

<sup>1</sup> 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.



2008			2009			2010			2011		
Full Time	Part Time	Total	Full Time	Part Time	Total	Full Time	Part Time	Total	Full Time	Part Time	Total
1,996	672	2,668	2,125	849	2,974	2,396	952	3,348	2,505	1,038	3,543
107	30	137	139	21	160	198	29	227	198	55	253
395	59	454	438	48	486	464	88	552	461	95	556
1,890	678	2,568	1,911	693	2,604	2,265	701	2,966	2,440	717	3,157
1,507	648	2,155	1,538	696	2,234	1,794	709	2,503	1,827	720	2,547
5,297	2,882	8,179	6,326	3,130	9,456	6,888	3,414	10,302	6,914	3,600	10,514
421	165	586	479	165	644	491	200	691	549	194	743
7,161	4,507	11,668	7,274	4,675	11,949	7,873	4,727	12,600	8,187	4,831	13,018
17,041	8,925	25,966	17,664	9,346	27,010	16,975	9,485	26,460	16,626	8,695	25,321
798	1,232	2,030	799	1,073	1,872	798	1,433	2,231	915	1,346	2,261
2,172	3,051	5,223	2,430	3,397	5,827	2,376	3,327	5,703	2,347	3,137	5,484
195	106	301	215	94	309	194	131	325	248	106	354
787	481	1,268	990	514	1,504	1,121	574	1,695	1,152	624	1,776
4,195	2,127	6,322	4,272	2,312	6,584	4,156	2,399	6,555	3,860	2,553	6,413
7,857	3,735	11,592	8,511	4,220	12,731	8,856	4,582	13,438	8,632	4,693	13,325
1,019	357	1,376	1,144	360	1,504	1,253	316	1,569	1,293	405	1,698
93	29	122	90	36	126	83	17	100	120	23	143
449	152	601	460	176	636	509	201	710	581	197	778
4,104	4,780	8,884	4,409	5,518	9,927	4,634	5,818	10,452	4,770	6,166	10,936
532	183	715	634	211	845	683	225	908	672	265	937
<b>58,016</b>	<b>34,799</b>	<b>92,815</b>	<b>61,848</b>	<b>37,534</b>	<b>99,382</b>	<b>64,007</b>	<b>39,328</b>	<b>103,335</b>	<b>64,297</b>	<b>39,460</b>	<b>103,757</b>

## DOCTORAL ENROLLMENT BY DISCIPLINE 2002-2011

DOCTORAL ENROLLMENT	2002	2003	2004	2005	2006	2007		
	Total	Total	Total	Total	Total	Full Time	Part Time	Total
Aerospace	1,206	1,321	1,459	1,797	1,780	1,462	195	1,657
Architectural	61	65	65	44	25	20	7	27
Biological/Agricultural	373	412	400	461	507	476	48	524
Biomedical	2,348	2,903	3,546	3,936	4,411	4,305	363	4,668
Chemical	4,620	5,044	5,185	4,995	5,025	4,684	296	4,980
Civil	4,543	4,666	4,971	4,548	4,383	3,704	615	4,319
Civil/Environmental <sup>1</sup>				136	230	262	115	377
Computer Science (inside eng.)	3,941	4,835	5,174	6,406	6,346	5,367	940	6,307
Electrical/Computer	13,694	15,419	16,074	15,472	15,303	13,435	1,996	15,431
Engineering (general)	176	280	342	341	572	380	119	499
Engineering Management	477	342	487	314	240	102	159	261
Eng. Science & Eng. Physics	746	872	902	1,036	966	880	57	937
Environmental	293	472	416	875	769	771	100	871
Industrial/Manufacturing	2,050	2,246	2,427	2,546	2,521	1,940	509	2,449
Mechanical	6,212	7,117	7,295	6,777	6,982	6,070	867	6,937
Metallurgical & Materials	2,425	2,690	2,831	3,281	3,302	3,384	236	3,620
Mining	63	69	89	93	71	78	27	105
Nuclear	409	453	464	580	589	598	49	647
Other	3,441	3,200	3,664	3,201	3,328	2,764	670	3,434
Petroleum	185	198	210	238	211	221	47	268
<b>TOTAL</b>	<b>47,263</b>	<b>52,604</b>	<b>56,001</b>	<b>57,077</b>	<b>57,561</b>	<b>50,903</b>	<b>7,415</b>	<b>58,318</b>

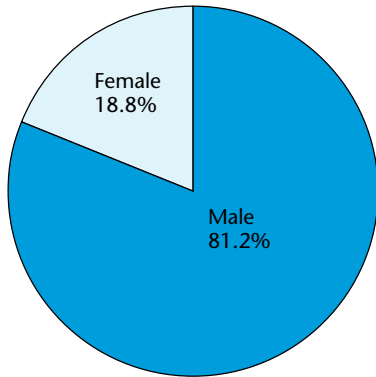
<sup>1</sup> New discipline added in 2005

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.

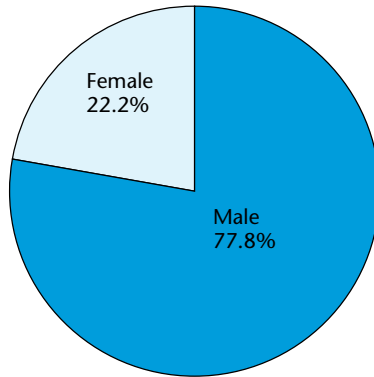
2008			2009			2010			2011		
Full Time	Part Time	Total	Full Time	Part Time	Total	Full Time	Part Time	Total	Full Time	Part Time	Total
1,520	183	1,703	1,711	202	1,913	1,797	199	1,996	1,863	206	2,069
34	2	36	49	4	53	52	3	55	65	3	68
526	63	589	591	64	655	641	87	728	617	93	710
4,518	376	4,894	4,863	426	5,289	5,183	418	5,601	5,397	452	5,849
4,865	289	5,154	5,142	333	5,475	5,277	348	5,625	5,492	340	5,832
3,587	592	4,179	3,961	664	4,625	4,302	730	5,032	4,458	630	5,088
375	122	497	383	126	509	382	119	501	541	131	672
5,527	781	6,308	5,855	906	6,761	6,084	947	7,031	6,515	996	7,511
13,519	1,862	15,381	14,506	1,934	16,440	14,964	2,078	17,042	15,012	2,042	17,054
370	150	520	413	158	571	540	93	633	581	131	712
95	162	257	112	225	337	138	228	366	133	249	382
926	55	981	896	66	962	905	46	951	912	54	966
706	122	828	779	105	884	849	115	964	868	96	964
1,965	467	2,432	2,253	504	2,757	2,326	555	2,881	2,320	574	2,894
6,454	819	7,273	7,183	893	8,076	7,767	907	8,674	8,085	973	9,058
3,419	248	3,667	3,597	218	3,815	3,733	208	3,941	4,016	233	4,249
64	13	77	71	12	83	52	8	60	92	15	107
623	44	667	660	45	705	758	47	805	738	72	810
2,982	656	3,638	3,058	641	3,699	3,341	677	4,018	3,593	685	4,278
289	80	369	364	40	404	413	52	465	464	59	523
<b>52,364</b>	<b>7,086</b>	<b>59,450</b>	<b>56,447</b>	<b>7,566</b>	<b>64,013</b>	<b>59,504</b>	<b>7,865</b>	<b>67,369</b>	<b>61,762</b>	<b>8,034</b>	<b>69,796</b>

## ENROLLMENT BY GENDER

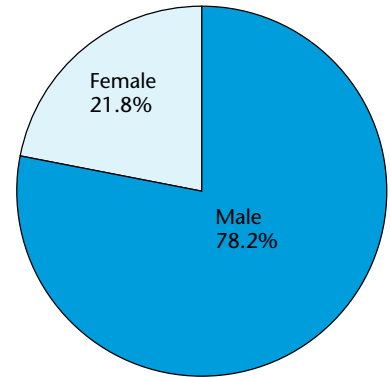
### BACHELOR'S



### MASTER'S

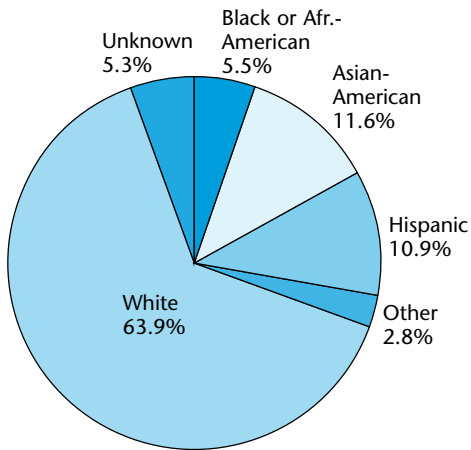


### DOCTORAL

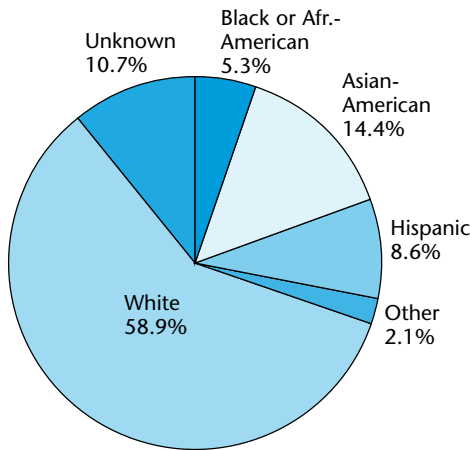


## ENROLLMENT BY ETHNICITY\*

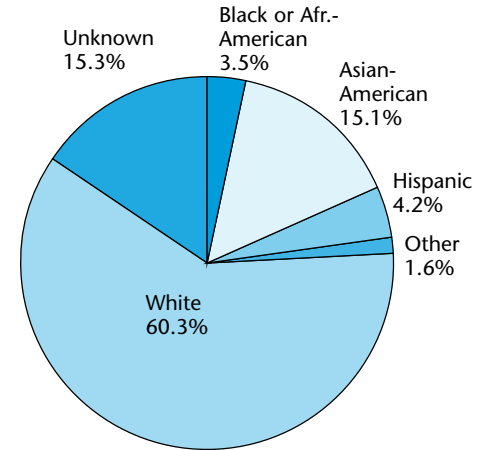
### BACHELOR'S



### MASTER'S



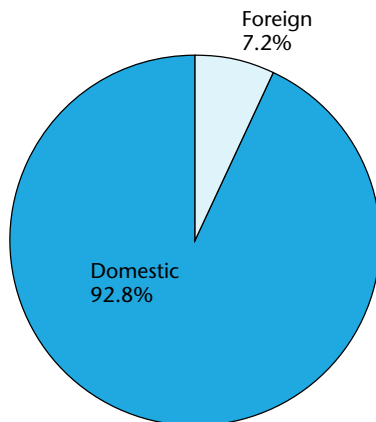
### DOCTORAL



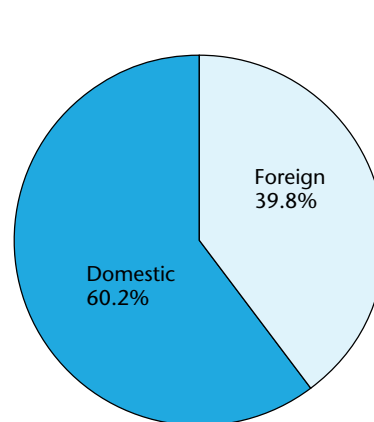
\* Calculations for enrollment by ethnicity do not include foreign nationals.

## ENROLLMENT BY RESIDENCY

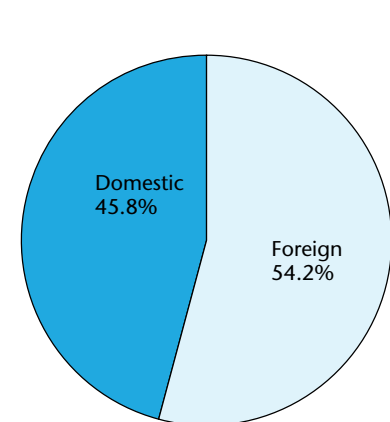
### BACHELOR'S



### MASTER'S



### DOCTORAL



**BACHELOR'S TOTAL\***  
**471,730**

**MASTER'S TOTAL**  
**103,757**

**DOCTORAL TOTAL**  
**69,796**

\*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. Eleven of those institutions participated in the 2011 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 McGill University.

**ENGINEERING BACHELOR'S DEGREES AWARDED BY SCHOOL**

1. University of Waterloo	950
2. University of Toronto	899
3. University of Alberta	836
4. University of British Columbia	812
5. Ecole de Technologie Superieure	720
6. Ecole Polytechnique de Montreal	608
7. University of Calgary	507
8. McGill University	497
9. Concordia University, Montreal	382
10. University of Ottawa	271
11. University of Western Ontario	210

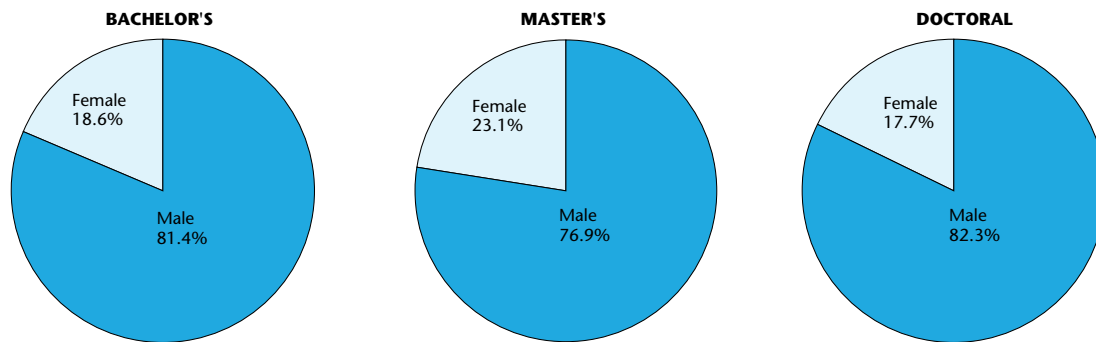
**ENGINEERING MASTER'S DEGREES AWARDED BY SCHOOL**

1. University of Waterloo	452
2. University of Toronto	395
3. Concordia University, Montreal	380
4. University of Alberta	334
5. University of British Columbia	259
6. Ecole Polytechnique de Montreal	231
7. Ecole de Technologie Superieure	195
8. University of Calgary	190
9. University of Ottawa	151
10. McGill University	118
11. University of Western Ontario	114

**ENGINEERING DOCTORAL DEGREES AWARDED BY SCHOOL**

1. University of Waterloo	116
2. University of Toronto	107
3. Ecole Polytechnique de Montreal	80
4. University of British Columbia	74
5. University of Alberta	71
6. University of Calgary	69
7. University of Western Ontario	62
8. McGill University	59
9. Concordia University, Montreal	42
10. University of Ottawa	36
11. Ecole de Technologie Superieure	23

**ENGINEERING DEGREES AWARDED BY GENDER**



**RESEARCH EXPENDITURES BY SCHOOL**

(IN MILLIONS)

1. Ecole Polytechnique de Montreal	\$45.2
2. University of Alberta	\$43.6
3. University of British Columbia	\$33.7
4. University of Calgary	\$28.0
5. Concordia University, Montreal	\$13.2
6. University of Ottawa	\$13.1

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

1. University of Waterloo	246
2. Ecole Polytechnique de Montreal	216
3. University of Toronto	215
4. University of British Columbia	195
5. University of Alberta	184
6. University of Calgary	159
7. Concordia University, Montreal	157
8. Ecole de Technologie Superieure	138
9. McGill University	133
10. University of Ottawa	112
11. University of Western Ontario	91

**PERCENTAGE OF TENURED/TENURE-TRACK FACULTY MEMBERS WHO ARE WOMEN BY LEVEL**

