

# ENGINEERING BY THE NUMBERS

By MICHAEL T. GIBBONS

Engineering bachelor's degrees remained virtually unchanged since last year, edging slightly higher to 74,387 in 2009. The past five years' totals have been remarkably steady, growing only 1 percent since 2005. Growth from 2000 to 2005 was a more robust 14 percent. Undergraduate enrollment reached 427,503 full-time students in the fall of 2009. After fluctuating during the mid 2000's, enrollment rose steadily over the past four years, which accounts for a 16 percent growth since 2005. Degrees in electrical/computer engineering and computer science continued to fall, although enrollment in these fields ticked upward slightly over the past two years. While mechanical, metallurgical and materials engineering degrees remained flat last year, the aerospace, biomedical, chemical, civil and environmental fields flourished. The energy-related fields of mining, nuclear, and petroleum engineering have grown by over 150 percent since 2003.

Master's degrees reached an all-time high of 41,632 in 2009. This represents a 6.7 percent growth from 2008 and a 38 percent growth over the past ten years. Indications are that the trend will continue, judging from the increasing enrollment totals, which leapt by over 7 percent in fall 2009 to 99,382. However, while master's enrollment has increased for all fields in recent years, that has not yet translated into wholesale degree growth. Chemical engineering and engineering science master's degrees are down 23 percent and 40 percent respectively since 2005. Electrical/computer and petroleum engineering also each dropped by 14 percent during that time. Biomedical engineering, general engineering, and nuclear engineering are all up 35 to 45 percent since 2005.

Doctoral degree totals have plateaued at an all-time high over the past three years. The 9,083 degrees awarded in 2009 were three fewer than last year and 28 more than 2007. Most fields have changed little over this time. The main positive exception is the 35 percent growth in biomedical engineering. The combined 3,107 degrees awarded in electrical/computer engineering and computer science represent a 7.5 percent decline since 2007. Overall, engineering doctorates are up by over 50 percent since 2000. Degree growth will likely continue in the future based on enrollment trends. Doctoral enrollment jumped 7.6 percent this year after four years of 1.5 percent average annual growth. This continues the enrollment increases,

which have not abated since the mid-1990's.

Foreign nationals received a higher proportion of master's degrees for the second consecutive year. The 44.1 percent representation is the highest share since 2004. The share of doctoral degrees awarded to foreign nationals dipped for the second consecutive year, falling to 55.1 percent. This is virtually the same percentage seen in 2003 before it reached a high point of 61.7 percent in 2006.

Although the fraction of degrees awarded to women at the master's (23 percent) and doctoral (21.2 percent) levels is at an all-time high, the percentage of women receiving bachelor's degrees declined again for the seventh consecutive year. The 17.8 percentage of engineering bachelor's degrees awarded to women in 2009 is the lowest since 1995. This declining trend might begin to reverse since undergraduate female enrollment ticked slightly higher for the second straight year, rising to 18.2 percent in fall 2009 from 17.5 percent in 2007.

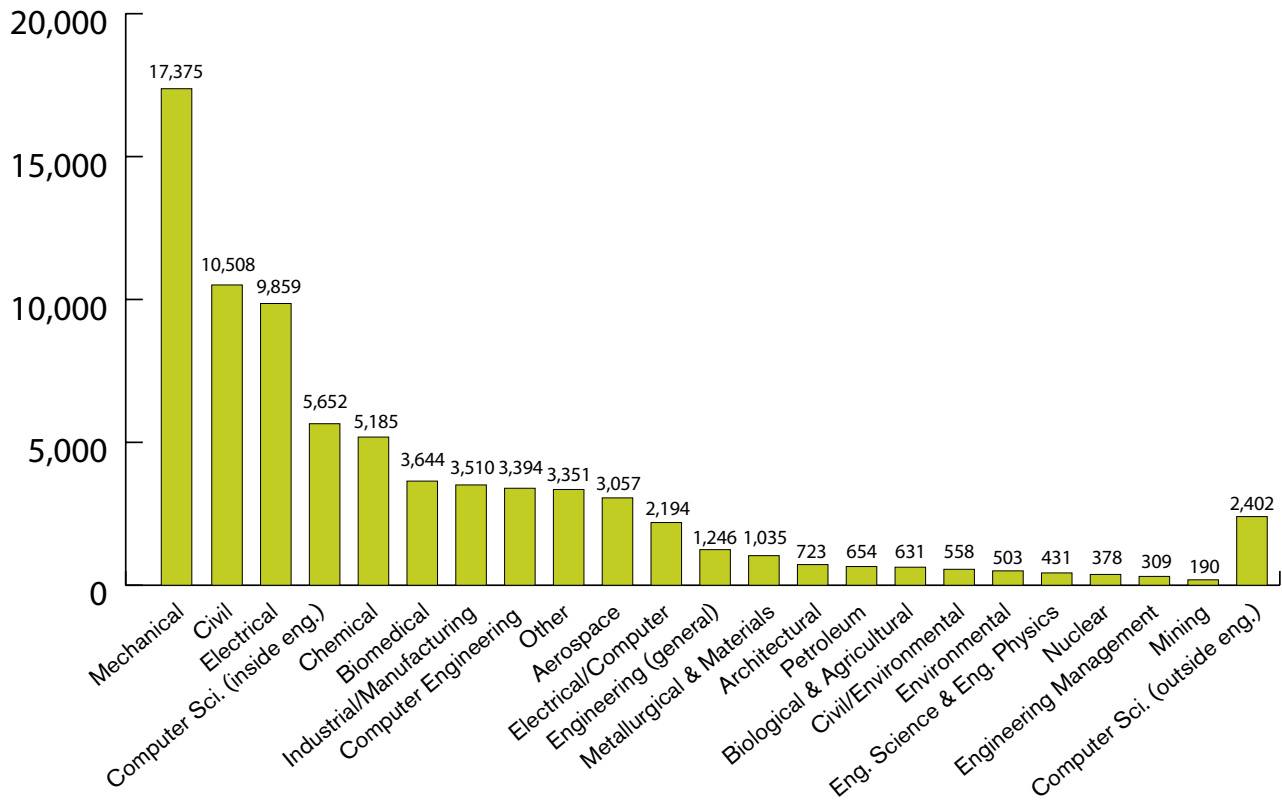
African-American and Hispanic representation remained unchanged for years at all degree levels. Although this largely persists for graduate degrees, African-Americans received a smaller share of degrees in 2009 (4.6 percent) than in 2000 (5.6 percent). The opposite is true for Hispanic graduates, as they now receive 6.6 percent of bachelor's degrees, compared with 5.8 percent in 2000. Asian-Americans have seen their proportion dip slightly to 12.4 percent of bachelor's degrees from a high of 14.2 percent in 2004.

Diversification in the faculty ranks continued with slightly more women and minorities in tenured and tenure-track positions. The percentage of women faculty members reached 12.7 percent in fall 2009, up from 8.9 percent in 2001. This trend should continue due to the higher percentage of women receiving doctorates and the notable increase of women at the assistant professor level, which now stands at 21.6 percent. African-American and Hispanic faculty also continue to grow, although very slowly. Their respective shares were 2.5 and 3.5 percent. Asian faculty members comprised 23.3 percent of the total, up from the 17 percent posted in 2001.

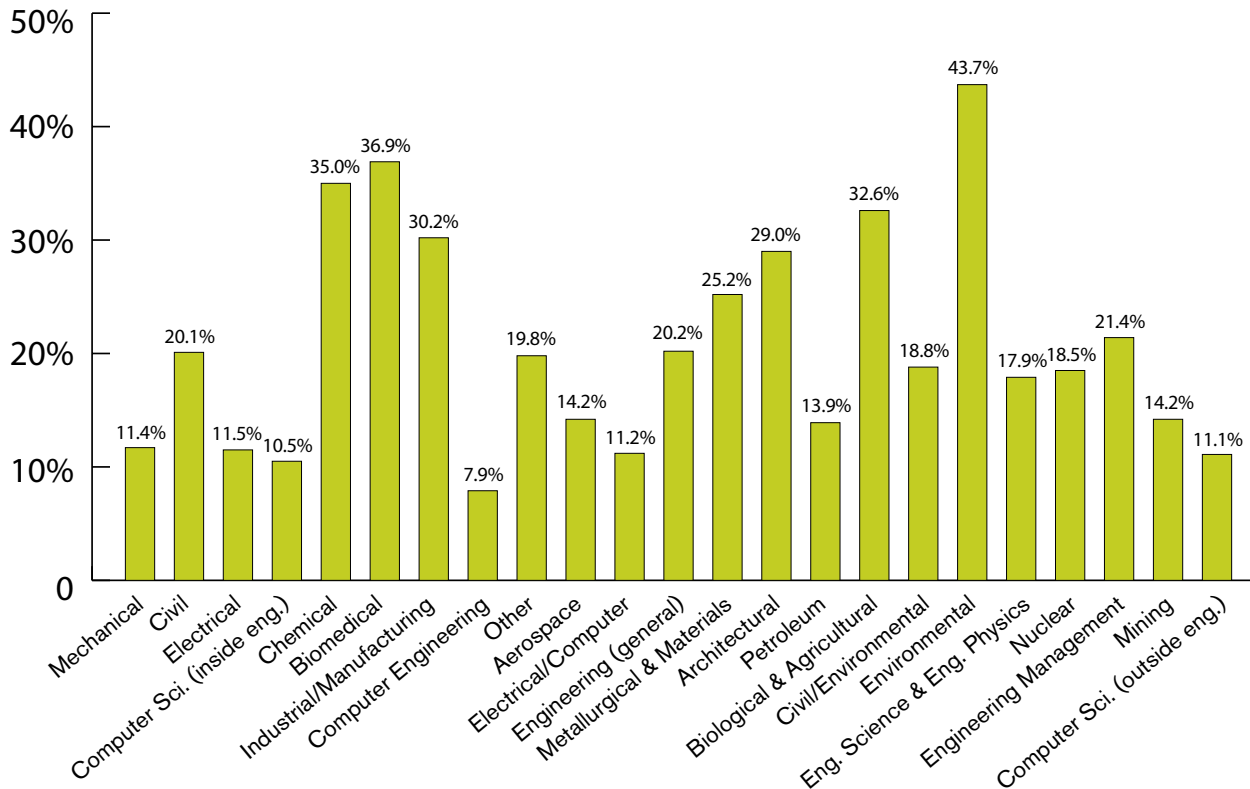
More detailed data for 343 U.S. and 10 Canadian engineering colleges can be found in the following pages of our *2009 Profiles of Engineering and Engineering Technology Colleges* book or online at [www.asee.org/colleges](http://www.asee.org/colleges)

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**BACHELOR'S DEGREES AWARDED BY ENGINEERING DISCIPLINE: 74,387**



**PERCENTAGE OF BACHELOR'S DEGREES AWARDED TO WOMEN BY DISCIPLINE: 17.8% OF TOTAL**

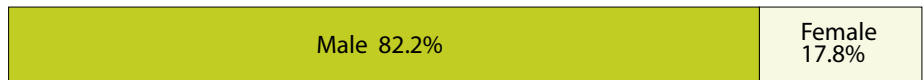


**ENGINEERING BACHELOR'S DEGREES AWARDED BY SCHOOL**

1. Georgia Institute of Technology	1,543
2. Pennsylvania State University	1,303
3. University of Michigan	1,203
4. Univ. of Illinois, Urbana-Champaign	1,181
5. Virginia Tech	1,166
6. Purdue University	1,116
7. North Carolina State University	1,038
8. Texas A&M University	1,029
9. University of Florida	972
10. University of Texas, Austin	958
11. California Poly. State U., SLO	828
12. University of California, Berkeley	819
13. Iowa State University	788
14. University of Minnesota, Twin Cities	741
15. Ohio State University	739
16. University of Washington	733
17. Cornell University	719
18. University of California, San Diego	704
19. Missouri Univ. of Science and Tech.	682
20. Massachusetts Inst. of Technology	626
21. Arizona State University	625
22. Colorado School of Mines	620
23. Drexel University	618
23. Michigan Technological University	618
25. University of Puerto Rico, Mayaguez	614
26. University of Maryland, College Park	603
27. University of Central Florida	602
28. California State Poly. U., Pomona	596
29. University of Wisconsin, Madison	584
30. Rensselaer Polytechnic Institute	569
31. University of Colorado, Boulder	542
32. Oregon State University	534
33. SUNY, Buffalo	521
34. University of California, Los Angeles	517
35. Texas Tech University	503
36. Clemson University	499
37. University of California, Irvine	478
38. Rutgers University	464
39. University of Arizona	456
40. University of Virginia	450
41. Kansas State University	449
42. Michigan State University	447
43. University of Nebraska, Lincoln	435
44. University of California, Davis	434
45. Auburn University	428
46. Florida International University	424
47. University of Utah	422
48. California State Univ., Long Beach	409
49. Rochester Institute of Technology	404
50. University of Pittsburgh	402
50. San Jose State University	402
50. University of Southern California	402

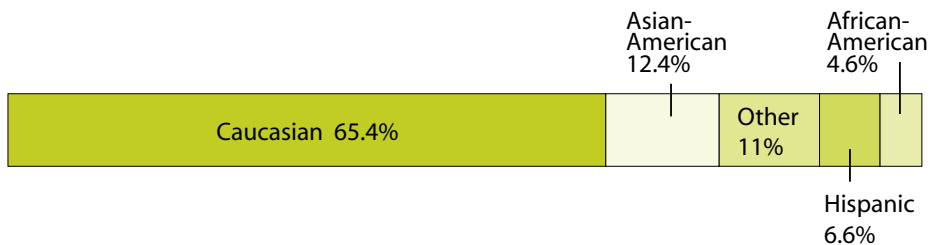
341 schools reported.

**BACHELOR'S DEGREES BY GENDER, 2009**



	2000	2001	2002	2003	2004	2005	2006	2007	2008
Female	20.8%	19.9%	20.9%	20.4%	20.3%	19.5%	19.3%	18.1%	18.0%
Male	79.2%	80.1%	79.1%	79.6%	79.7%	80.5%	80.7%	81.9%	82.0%

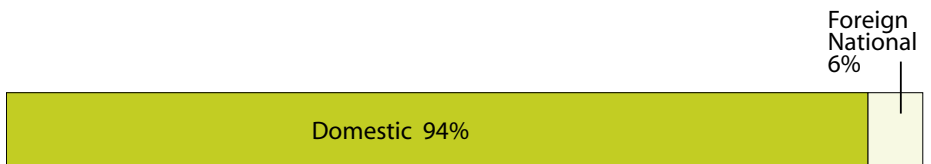
**BACHELOR'S DEGREES BY ETHNICITY, 2009\***



	2000	2001	2002	2003	2004	2005	2006	2007	2008
African American	5.6%	5.3%	5.4%	5.1%	5.1%	5.3%	5.0%	4.9%	4.7%
Hispanic	5.8%	5.4%	5.5%	5.4%	5.6%	5.8%	6.0%	6.2%	6.5%
Other	8.5%	9.0%	7.3%	7.2%	8.0%	8.6%	8.5%	8.3%	8.9%
Asian American	13.1%	14.1%	14.2%	14.0%	14.2%	14.1%	13.8%	13.3%	13.0%
Caucasian	67.0%	66.2%	67.6%	68.3%	67.1%	66.2%	66.7%	67.3%	66.9%

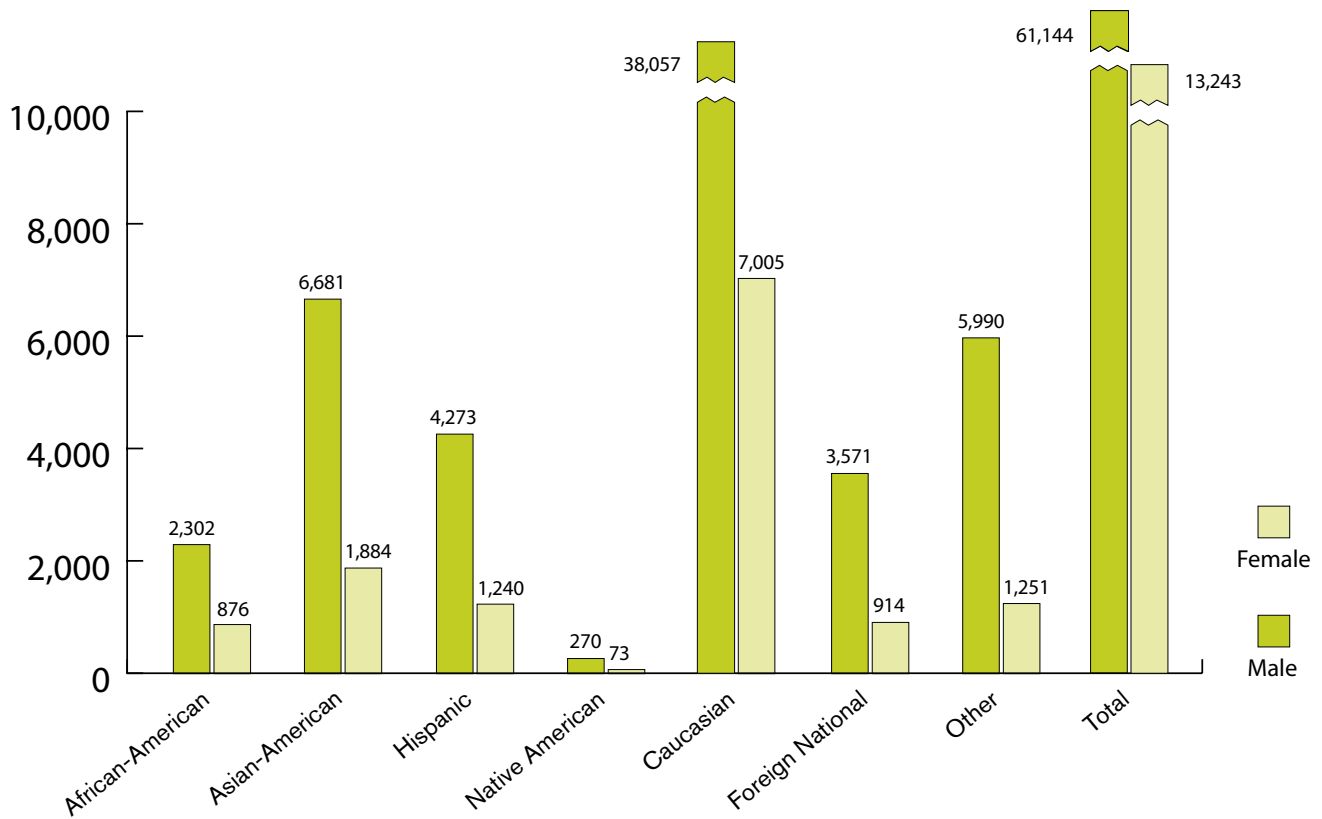
\* data on ethnicity does not include schools in Puerto Rico or foreign nationals. The percentage of Hispanic graduates is 7.9% if the two schools in Puerto Rico are included.

**BACHELOR'S DEGREES BY RESIDENCY, 2009**



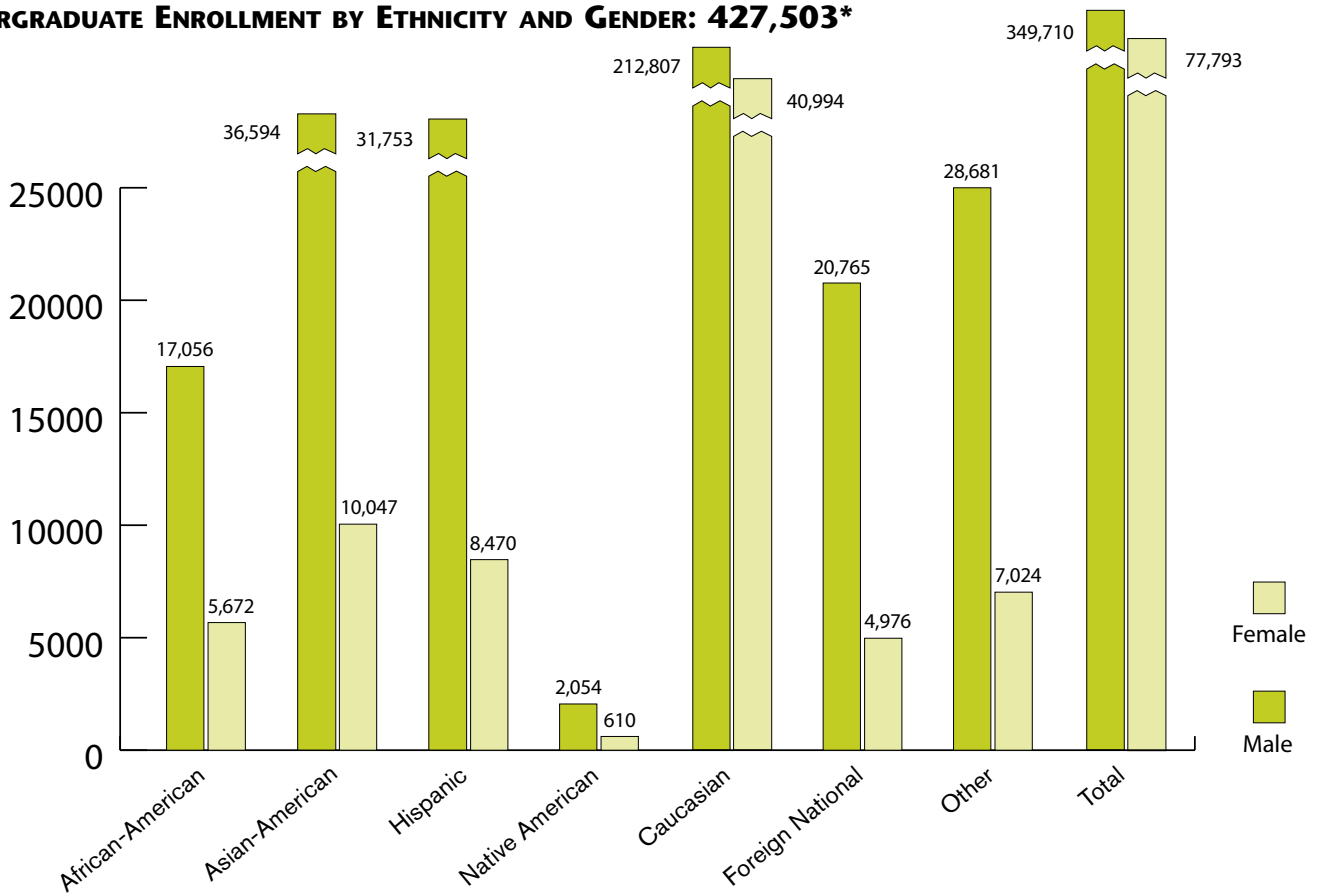
	2000	2001	2002	2003	2004	2005	2006	2007	2008
Foreign National	8.3%	7.5%	7.2%	7.7%	7.8%	7.5%	7.2%	6.7%	6.0%
Domestic	91.7%	92.5%	92.8%	92.3%	92.2%	92.5%	92.8%	93.3%	94.0%

**BACHELOR'S DEGREES AWARDED BY ETHNICITY AND GENDER: 74,387\***



\* Includes 657 male and 329 female graduates from schools in Puerto Rico.

**UNDERGRADUATE ENROLLMENT BY ETHNICITY AND GENDER: 427,503\***



\* Includes 4,844 male and 1,997 female enrolled students from schools in Puerto Rico. Enrollment is for full-time students.

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

1. Georgia Institute of Technology	349
2. University of Michigan	292
3. Massachusetts Inst. of Technology	253
4. University of Puerto Rico, Mayaguez	243
5. Cornell University	213
6. Purdue University	210
6. University of Texas, Austin	210
8. Pennsylvania State University	202
9. Virginia Tech	184
10. University of California, Berkeley	182
11. University of Florida	179
12. Texas A&M University	175
13. Univ. of Illinois, Urbana-Champaign	165
13. North Carolina State University	165
15. University of Washington	143
16. Missouri Univ. of Science and Tech.	140
17. California Poly. State U., SLO	130
18. University of California, San Diego	128
19. Iowa State University	123
20. Colorado School of Mines	121
20. Drexel University	121
22. University of Virginia	120
23. Univ. of Minnesota, Twin Cities	111
24. Columbia University	107
24. Rensselaer Polytechnic Institute	107
26. Stanford University	106
27. University of Southern California	102
28. University of Wisconsin, Madison	101
29. University of Maryland, College Park	100
30. Ohio State University	99
31. Carnegie Mellon University	94
32. University of California, Los Angeles	93
33. Arizona State University	92
33. Clemson University	92
35. Johns Hopkins University	89
35. University of Pennsylvania	89
37. California State Poly. U., Pomona	88
37. Vanderbilt University	88
39. Polytechnic Univ. of Puerto Rico	86
40. University of Colorado, Boulder	85
40. Michigan Technological University	85
42. University of Central Florida	84
42. Northwestern University	84
42. Stony Brook University	84
42. Washington University	84
46. University of California, Irvine	82
47. Lehigh University	81
48. Michigan State University	80
49. University of Arizona	79
49. University of South Florida	79

341 schools reported.

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

1. Yale University	41.7%
2. Massachusetts Inst. of Technology	40.4%
3. University of Puerto Rico, Mayaguez	39.6%
4. George Washington University	38.1%
5. Harvey Mudd College	35.6%
6. Southern Methodist University	32.7%
7. North Carolina A&T State Univ.	32.2%
8. Harvard University	31.7%
9. Vanderbilt University	31.4%
10. Washington University	30.8%
11. Johns Hopkins University	30.6%
12. Princeton University	30.5%
13. Tennessee State University	30.0%
13. Tufts University	30.0%
15. Howard University	29.8%
16. Cornell University	29.6%
16. Stanford University	29.6%
18. University of Miami	28.9%
19. William Marsh Rice University	28.6%
20. Bucknell University	28.4%

\* Minimum of 50 B.S. degrees awarded  
263 schools fit this criterion.**BACHELOR'S DEGREES AWARDED TO AFRICAN-AMERICANS BY SCHOOL**

1. North Carolina A&T State Univ.	172
2. Georgia Institute of Technology	111
3. Prairie View A&M University	79
4. Alabama A&M University	77
5. FAMU-FSU College of Eng.	67
5. Morgan State University	67
7. Univ. of Maryland, College Park	56
7. North Carolina State University	56
9. City College of the CUNY	54
10. Southern Univ. and A&M College	53
11. University of Michigan	51
12. Tuskegee University	48
13. University of Florida	47
14. Tennessee State University	43
15. Florida Atlantic University	42
16. Virginia Tech	40
17. Missouri Univ. of Science and Tech.	39
18. University of Central Florida	36
18. Massachusetts Inst. of Technology	36
20. Florida International University	34
20. Howard University	34

341 schools reported.

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

1. University of California, Berkeley	448
2. University of California, San Diego	289
3. University of California, Los Angeles	266
4. Georgia Institute of Technology	250
5. Univ. of Illinois, Urbana-Champaign	223
6. California State Poly. U., Pomona	218
7. University of Washington	216
8. University of Texas, Austin	214
9. University of Michigan	195
10. University of California, Davis	191
11. San Jose State University	180
12. Rutgers University	157
13. Massachusetts Inst. of Technology	149
14. California State University, Long Beach	136
15. University of Maryland, College Park	125
16. California Poly. State U., SLO	124
17. Stony Brook University	120
18. Columbia University	117
18. Cornell University	117
20. Stanford University	116

341 schools reported.

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

1. Univ. of Puerto Rico, Mayaguez	614
2. Polytechnic Univ. of Puerto Rico	372
3. Florida International University	254
4. University of Texas at El Paso	169
5. University of Florida	139
6. California State Poly. U., Pomona	137
7. University of Texas, Austin	135
8. Texas A&M University	120
9. California Poly. State U., SLO	97
10. Arizona State University	83
11. Georgia Institute of Technology	81
11. City College of the CUNY	81
13. University of Central Florida	78
14. Massachusetts Inst. of Technology	72
14. University of Texas, Pan American	72
16. New Mexico State University	70
17. California State Univ., Long Beach	68
18. University of Texas, San Antonio	66
19. University of Arizona	65
20. Texas A&M University, Kingsville	61

341 schools reported.

**AEROSPACE ENGINEERING  
DEGREES AWARDED BY SCHOOL**

1. Embry-Riddle Aero. U., Daytona Beach	235
2. University of Michigan	134
3. Purdue University	122
4. Georgia Institute of Technology	112
5. U.S. Air Force Academy	102
6. Pennsylvania State University	95
7. University of Maryland, College Park	91
7. Virginia Tech	91
9. Univ. of Illinois, Urbana-Champaign	87
10. University of Florida	80
11. University of Texas, Austin	76
12. Iowa State University	72
12. University of Minnesota, Twin Cities	72
14. Embry Riddle Aero.U., Prescott	70
15. California Poly. State U., SLO	65
16. University of California, San Diego	62
17. North Carolina State University	61
18. Florida Institute of Technology	59
19. Texas A&M University	58
20. University of Colorado, Boulder	56
20. Massachusetts Inst. of Technology	56

64 schools reported.

**BIOMEDICAL ENGINEERING  
DEGREES AWARDED BY SCHOOL**

1. Duke University	141
2. University of California, San Diego	136
3. Georgia Institute of Technology	134
4. University of Texas, Austin	102
5. Johns Hopkins University	100
6. University of California, Irvine	98
7. Boston University	96
8. Case Western Reserve University	93
9. University of Pennsylvania	86
10. University of California, Berkeley	85
11. Drexel University	72
11. Washington University	72
13. Arizona State University	69
13. University of Michigan	69
13. University of Minnesota, Twin Cities	69
13. University of Southern California	69
17. Rutgers University	67
17. University of Virginia	67
19. Northwestern University	66
19. Texas A&M University	66

89 schools reported.

**CHEMICAL ENGINEERING  
DEGREES AWARDED BY SCHOOL**

1. University of Michigan	113
2. Purdue University	106
3. University of Texas, Austin	99
4. Georgia Institute of Technology	98
5. Pennsylvania State University	93
6. Univ. of Puerto Rico, Mayaguez	91
7. Cornell University	84
8. North Carolina State University	80
9. University of California, Berkeley	78
10. Massachusetts Inst. of Technology	74
11. Ohio State University	73
12. University of Florida	71
12. Texas A&M University	71
14. University of California, Los Angeles	70
14. University of Minnesota, Twin Cities	70
16. Colorado School of Mines	69
17. Carnegie Mellon University	62
17. Univ. of Illinois, Urbana-Champaign	62
17. Iowa State University	62
20. University of Wisconsin, Madison	59
21. University of Colorado, Boulder	58
22. Johns Hopkins University	56
22. Montana State University	56
24. University of South Florida	55
25. Brigham Young University	54
25. Michigan Technological University	54
27. Drexel University	53
27. Virginia Tech	53
29. University of Delaware	51
30. University of Pittsburgh	50
30. Villanova University	50
32. University of Alabama	49
32. University of Washington	49
34. Louisiana State University	47
35. Arizona State University	46
35. University of Notre Dame	46
35. Oregon State University	46
35. University of Pennsylvania	46
39. Rose-Hulman Inst. of Technology	45
40. University of Houston	44
40. Missouri Univ. of Science and Tech.	44
40. Rutgers University	44
43. Michigan State University	43
43. Northeastern University	43
45. Auburn University	41
45. University of California, Davis	41
45. University of Virginia	41
48. Lehigh University	40
48. Worcester Polytechnic Institute	40
50. Rensselaer Polytechnic Institute	39

158 schools reported.

**CIVIL ENGINEERING DEGREES  
AWARDED BY SCHOOL**

1. Pennsylvania State University	246
2. Georgia Institute of Technology	221
3. Texas A&M University	217
4. Virginia Tech	205
5. California State Poly. U., Pomona	187
6. California Polytechnic State U., SLO	172
7. North Carolina State University	171
8. Purdue University	164
9. University of Florida	147
10. Polytechnic Univ. of Puerto Rico	132
11. University of Puerto Rico, Mayaguez	122
12. University of California, Davis	119
13. University of Central Florida	117
14. Univ. of Illinois, Urbana-Champaign	115
15. University of California, Berkeley	112
15. Washington State University	112
17. Iowa State University	108
17. University of Minnesota, Twin Cities	108
19. Clemson University	105
20. Michigan Technological University	104
21. University of Texas, Austin	101
22. University of California, San Diego	100
23. University of Washington	98
24. Missouri Univ. of Science and Tech	96
25. San Diego State University	94
26. FAMU-FSU College of Engineering	90
27. San Jose State University	88
28. University of South Florida	87
29. SUNY, Buffalo	84
29. University of Wisconsin, Madison	84
31. Brigham Young University	83
32. University of California, Los Angeles	81
33. University of Utah	81
34. University of Michigan	80
34. Texas Tech University	80
36. University of California, Irvine	78
36. University of Wisconsin, Platteville	78
38. Michigan State University	76
39. Auburn University	75
39. California State University, Sacramento	75
39. Montana State University	75
39. Oregon State University	75
43. Northeastern University	74
44. University of Delaware	73
45. Drexel University	72
45. University of Pittsburgh	72
47. Ohio State University	70
47. University of Tennessee, Knoxville	70
49. University of Colorado, Boulder	69
50. University of Missouri, Columbia	68

213 schools reported.

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

1. Georgia Institute of Technology	281
2. University of Michigan	165
3. Purdue University	152
4. Cornell University	120
5. Pennsylvania State University	112
6. Iowa State University	110
7. Virginia Tech	107
8. Univ. of Puerto Rico, Mayaguez	92
9. University of Florida	90
10. Ohio State University	87
11. Northwestern University	84
12. Texas A&M University	80
13. University of California, Berkeley	70
14. California Poly. State U., SLO	63
15. Columbia University	60
16. Rochester Institute of Technology	50
16. Stanford University	50
18. University of Wisconsin, Madison	49
19. California State Poly. U., Pomona	48
20. University of Pittsburgh	45
21. University of Southern California	44
22. Oregon State University	43
23. Clemson University	42
24. North Carolina State University	40
25. Lehigh University	38
26. Texas Tech University	36
27. Kettering University	35
27. University of Texas, El Paso	35
29. West Virginia University	34
30. George Mason University	33
31. Auburn University	32
31. University of Oklahoma	32
31. Polytechnic Univ. of Puerto Rico	32
34. Northeastern University	31
34. Rutgers University	31
36. Rensselaer Polytechnic Institute	29
36. University of Washington	29
38. Kansas State University	28
38. Montana State University	28
40. University of Arkansas	27
40. University of Missouri	27
40. United States Military Academy	27
43. Boston University	26
44. SUNY, Buffalo	25
45. North Dakota State University	24
46. University of Central Florida	23
46. FAMU-FSU College of Engineering	23
46. North Carolina A&T State University	23
49. SUNY, Binghamton	22
49. Oklahoma State University	22
49. University of Texas, Arlington	22

111 schools reported.

**MECHANICAL ENGINEERING  
DEGREES AWARDED BY SCHOOL**

1. Georgia Institute of Technology	347
2. Kettering University	279
3. Virginia Tech	266
4. University of Michigan	243
5. Pennsylvania State University	228
6. Purdue University	225
7. University of Florida	221
8. Univ. of Illinois, Urbana-Champaign	213
9. Michigan Technological University	204
10. University of Texas, Austin	190
11. Iowa State University	186
12. North Carolina State University	184
13. California Poly. State U., SLO	182
14. Ohio State University	181
15. SUNY, Buffalo	172
16. Texas A&M University	171
17. University of California, San Diego	170
17. Texas Tech University	170
19. University of Maryland, College Park	163
20. University of Minnesota, Twin Cities	161
21. Rensselaer Polytechnic Institute	152
22. University of California, Berkeley	144
23. University of Colorado, Boulder	142
24. University of Wisconsin, Madison	141
24. Worcester Polytechnic Institute	141
26. Drexel University	139
27. Missouri Univ. of Science and Tech.	134
28. Clemson University	130
29. University of Central Florida	126
30. Rochester Institute of Technology	123
31. Massachusetts Inst. of Technology	121
32. California State Poly. U., Pomona	119
32. University of Utah	119
34. Rutgers University	118
35. Brigham Young University	116
36. Northeastern University	115
37. Univ. of North Carolina, Charlotte	112
37. Rose-Hulman Institute of Technology	112
39. Univ. of Maryland, Baltimore County	107
39. Michigan State University	107
41. Kansas State University	106
42. University of Washington	105
43. Cornell University	104
44. University of California, Los Angeles	103
45. University of Kentucky	101
45. Oklahoma State University	101
47. University of Arizona	100
48. Oregon State University	99
48. University of Puerto Rico, Mayaguez	99
48. San Jose State University	99
48. University of South Florida	99

277 schools reported.

**ELECTRICAL ENGINEERING  
DEGREES AWARDED BY SCHOOL**

1. Georgia Institute of Technology	212
2. University of Washington	169
3. Univ. of Illinois, Urbana-Champaign	167
4. Purdue University	154
5. North Carolina State University	142
6. California State Poly. U., Pomona	140
7. University of Florida	138
8. Pennsylvania State University	131
9. University of Maryland, College Park	129
10. University of Michigan	119
11. Texas A&M University	117
12. Michigan Technological University	114
12. Virginia Tech	114
14. University of Texas, Dallas	112
15. University of California, Los Angeles	111
16. University of Puerto Rico, Mayaguez	109
17. Arizona State University	104
18. San Jose State University	100
19. University of Minnesota, Twin Cities	99
19. Polytechnic Univ. of Puerto Rico	99
21. Missouri Univ. of Science and Tech.	98
22. California Poly. State U., SLO	94
22. Florida International University	94
24. Drexel University	92
25. University of Central Florida	88
26. City College of the CUNY	87
27. Rensselaer Polytechnic Institute	85
28. California State Univ., Long Beach	83
28. University of Michigan, Dearborn	83
30. University of Texas, El Paso	81
31. University of California, San Diego	80
32. Auburn University	78
33. University of Wisconsin, Madison	74
34. SUNY, Buffalo	73
35. University of Arizona	72
36. University of Illinois, Chicago	67
36. North Dakota State University	67
38. Iowa State University	65
38. University of Missouri	65
38. Rochester Institute of Technology	65
41. University of California, Irvine	64
42. University of California, Davis	63
43. FAMU-FSU College of Engineering	62
43. Northeastern University	62
43. University of South Florida	62
46. Kettering University	61
47. Clemson University	59
47. University of Houston	59
47. University of Nebraska, Lincoln	59
50. George Mason University	58

249 schools reported.

**COMPUTER ENGINEERING DEGREES AWARDED BY SCHOOL**

1. Virginia Tech	101
2. North Carolina State University	96
3. Univ. of Illinois, Urbana-Champaign	91
4. Univ. of Puerto Rico, Mayaguez	66
5. Rochester Institute of Technology	62
6. University of Florida	58
7. Georgia Institute of Technology	56
8. Arizona State University	55
9. University of Michigan	54
10. California Poly. State U., SLO	52
10. Pennsylvania State University	52
10. University of Washington	52
13. Iowa State University	48
13. University of Wisconsin, Madison	48
15. University of Maryland, College Park	47
16. Missouri Univ. of Science and Tech	46
17. Drexel University	45
17. Purdue University	45
17. San Jose State University	45
20. Florida International University	43
21. University of Central Florida	42
21. University of Michigan, Dearborn	42
23. Michigan Technological University	41
23. Rensselaer Polytechnic Institute	41
25. University of Pittsburgh	40
26. University of Arizona	39
26. California State Poly. U., Pomona	39
28. Univ. of Maryland, Baltimore County	35
29. New Jersey Institute of Technology	34
30. West Virginia University	33
31. California State Univ., Long Beach	32
31. Boston University	32
31. San Diego State University	32
34. Clemson University	31
34. Rose-Hulman Institute of Technology	31
36. University of Alabama in Huntsville	28
36. University of Minnesota, Twin Cities	28
38. Clarkson University	27
38. University of Missouri	27
38. Northeastern University	27
38. Polytechnic Institute of NYU	27
42. Stevens Institute of Technology	26
43. FAMU-FSU College of Engineering	25
44. Univ. of California, Santa Barbara	24
44. City College of the CUNY	24
46. Montana State University	23
46. Wright State University	23
48. University of Illinois, Chicago	22
48. Kettering University	22
48. SUNY, Buffalo	22
48. University of Virginia	22

174 schools reported.

**ELECTRICAL/COMPUTER ENGINEERING DEGREES AWARDED BY SCHOOL**

1. University of Texas, Austin	256
2. University of California, Berkeley	205
3. Ohio State University	132
4. Carnegie Mellon University	125
5. Brigham Young University	104
6. Rutgers University	99
7. Cornell University	91
8. Worcester Polytechnic Institute	80
9. Massachusetts Inst. of Technology	66
10. Texas A&M University	54
11. University of Texas, San Antonio	52
12. New York Institute of Technology	49
12. Oklahoma State University	49
14. Duke University	48
14. University of Iowa	48
16. University of Pennsylvania	44
17. Southern Illinois Univ., Carbondale	41
18. Oregon State University	40
19. University of Akron	36
19. Colorado State University	36

53 schools reported.

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

1. Georgia Institute of Technology	187
2. University of California, Irvine	173
3. Carnegie Mellon University	144
4. Rutgers University	138
4. University of Texas, Austin	138
6. New Jersey Institute of Technology	135
7. Rochester Institute of Technology	116
8. University of Maryland, College Park	90
9. University of Wisconsin, Madison	86
10. University of California, Berkeley	79
11. Rensselaer Polytechnic Institute	73
12. Brigham Young University	62
13. University of California, Davis	59
14. Univ. of Massachusetts, Amherst	54
14. Worcester Polytechnic Institute	54
14. Michigan Technological University	54
17. Youngstown State University	48
17. University of Pittsburgh	48
19. University of Iowa	47
20. Missouri Univ. of Science and Tech.	39

55 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	161
2. University of Central Florida	143
3. Massachusetts Inst. of Technology	124
4. Florida International University	116
5. North Carolina State University	113
6. University of Minnesota, Twin Cities	111
7. University of Texas, Dallas	109
8. University of California, San Diego	105
9. University of Washington	103
10. SUNY, Binghamton	102
11. Stony Brook University	91
12. Virginia Tech	89
13. Ohio State University	84
14. University of Michigan	77
15. Univ. of Maryland, Baltimore County	75
15. University of Pennsylvania	75
17. Drexel University	69
18. Cornell University	67
18. Pennsylvania State University	67
20. Stanford University	65
21. Arizona State University	64
21. Michigan State University	64
23. California State Univ., Long Beach	63
23. University of Utah	63
25. California State Univ., Northridge	60
25. SUNY, Buffalo	60
25. Oregon State University	60
28. New York Institute of Technology	57
28. University of Texas, Arlington	57
30. University of Missouri	56
30. University of Nebraska, Lincoln	56
30. Texas A&M University	56
33. California Poly. State U., SLO	54
33. Univ. of California, Santa Barbara	54
33. University of Colorado at Boulder	54
33. University of North Texas	54
37. California State Univ., Fullerton	53
37. University of Connecticut	53
37. University of Southern California	53
40. University of California, Berkeley	51
40. University of Virginia	51
42. Auburn University	50
43. University of California, Los Angeles	49
43. University of California, Santa Cruz	49
45. Colorado School of Mines	47
45. Florida Atlantic University	47
45. Portland State University	47
48. California State Univ., Sacramento	43
49. George Mason University	42
50. Oakland University	41

162 schools reported.

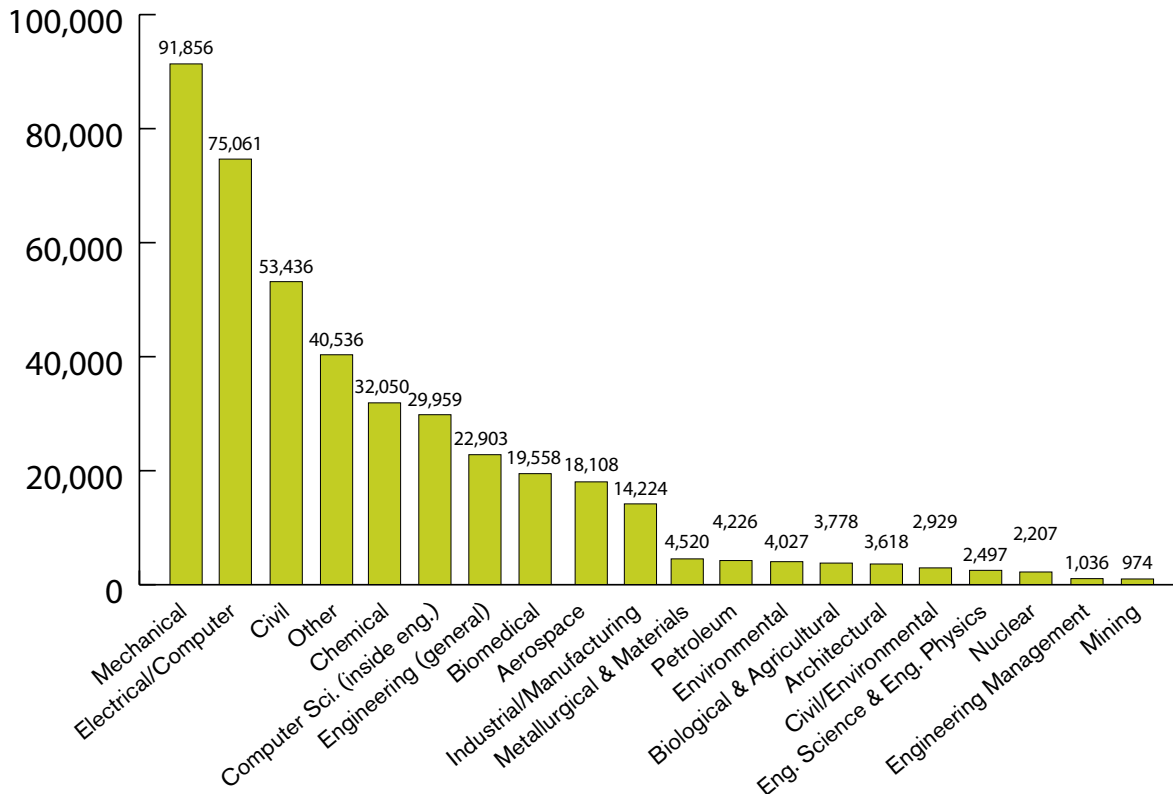


**UNDERGRADUATE ENROLLMENT BY SCHOOL\***

1. Georgia Institute of Technology	7,902	23. Texas Tech University	3,687	45. Kansas State University	2,563
2. Texas A&M University	7,090	24. Oregon State University	3,685	46. University of California, Irvine	2,545
3. Purdue University	7,035	25. Clemson University	3,621	47. Stanford University	2,466
4. North Carolina State University	6,370	26. Colorado School of Mines	3,605	48. SUNY, Buffalo	2,444
5. Univ. of Illinois, Urbana-Champaign	6,279	27. Auburn University	3,598	49. University of Alabama	2,439
6. Virginia Tech	5,933	28. Florida International University	3,530	50. California State Univ., Long Beach	2,432
7. University of Texas, Austin	5,668	29. University of Wisconsin, Madison	3,517	51. University of Oklahoma	2,385
8. Ohio State University	5,617	30. Drexel University	3,447	52. University of Utah	2,367
9. California Poly. State U., SLO	5,608	31. Michigan Technological University	3,389	53. University of Arizona	2,358
10. Pennsylvania State University	5,539	32. University of California, Berkeley	3,303	54. West Virginia University	2,358
11. University of Michigan	5,448	33. Rensselaer Polytechnic Institute	3,221	55. University of Texas, El Paso	2,323
12. Iowa State University	5,169	34. University of California, Los Angeles	3,205	56. Rochester Institute of Technology	2,319
13. University of Central Florida	5,164	35. Louisiana State University	3,175	57. University of Cincinnati	2,297
14. University of Florida	5,071	36. University of Colorado, Boulder	3,064	58. George Mason University	2,280
15. Univ. of Puerto Rico, Mayaguez	4,981	37. University of Maryland, College Park	3,046	59. Mississippi State University	2,252
16. California State Poly. U., Pomona	4,635	38. Michigan State University	3,030	60. Oklahoma State University	2,251
17. Polytechnic Univ. of Puerto Rico	4,475	39. Cornell University	2,998	61. University of Virginia	2,248
18. University of California, San Diego	4,124	40. University of South Florida	2,917	62. Brigham Young University	2,247
19. Missouri Univ. of Science and Tech.	3,942	41. University of California, Davis	2,861	63. University of Texas, Arlington	2,208
20. Arizona State University	3,906	42. Rutgers University	2,772	64. University of Tennessee, Knoxville	2,202
21. University of Washington	3,866	43. University of Nebraska, Lincoln	2,741	65. New Jersey Institute of Technology	2,195
22. University of Minnesota, Twin Cities	3,733	44. San Jose State University	2,567	66. North Dakota State University	2,161

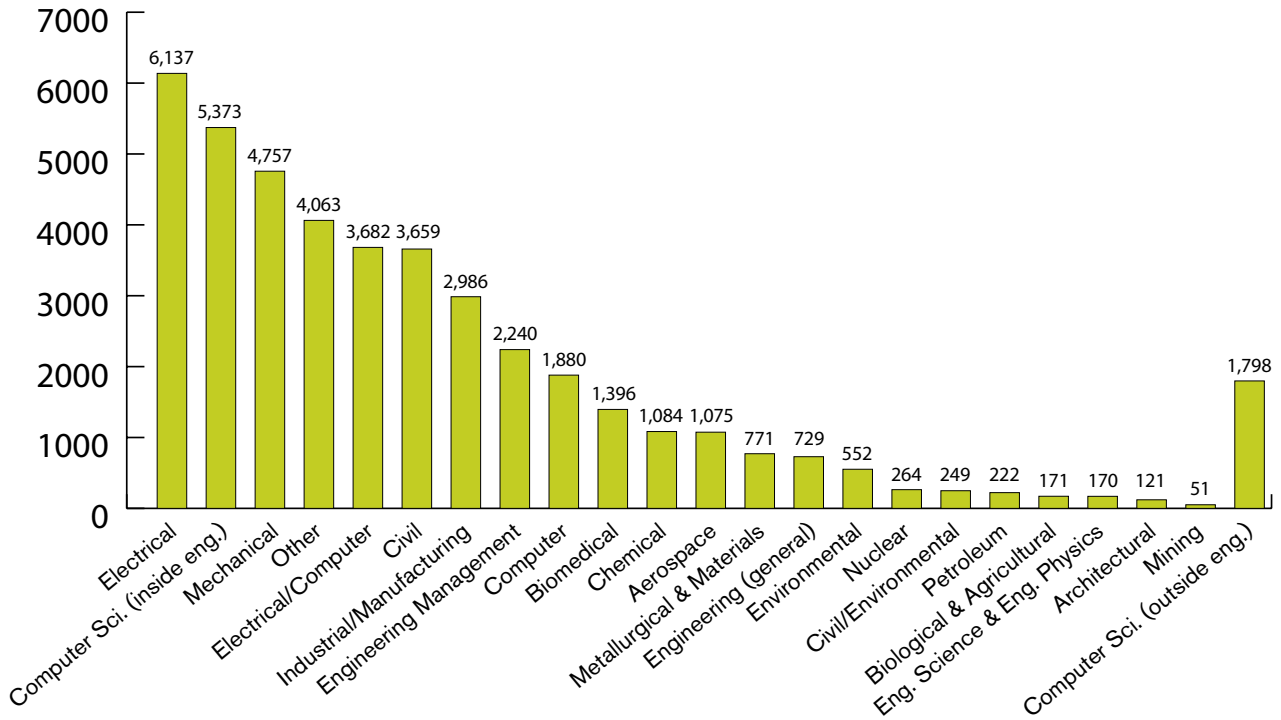
337 schools reported.  
 \* Some schools do not permit formal enrollment in their engineering colleges until the second of third year. Enrollment is full-time plus part-time students.

**UNDERGRADUATE ENROLLMENT BY DISCIPLINE:\* 427,503**

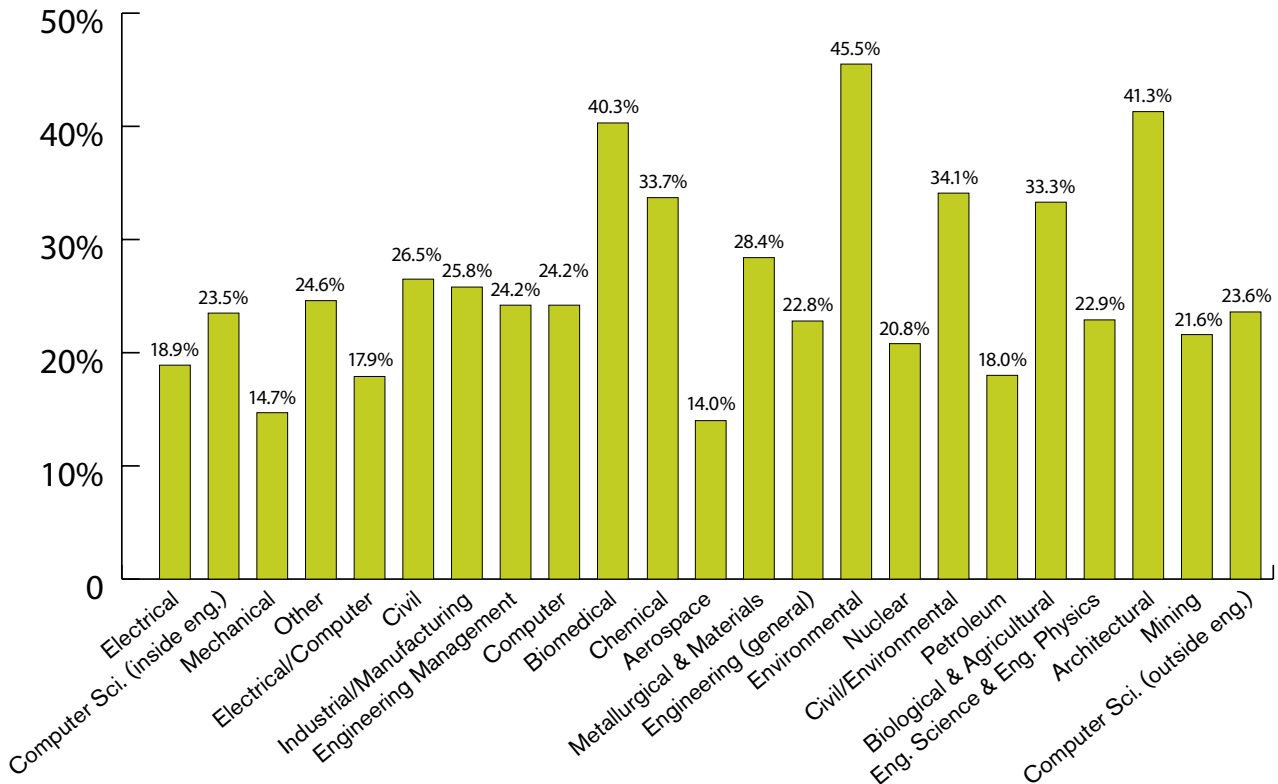


\* Enrollment is for full-time bachelor's degree candidates in engineering.

**MASTER'S DEGREES AWARDED BY DISCIPLINE: 41,632**



**PERCENTAGE OF MASTER'S DEGREES AWARDED TO WOMEN BY DISCIPLINE: 23% OF TOTAL**



## ENGINEERING MASTER'S DEGREES AWARDED BY SCHOOL

1. University of Southern California	1,458
2. Georgia Institute of Technology	1,018
3. San Jose State University	942
4. Stanford University	939
5. Johns Hopkins University	819
6. University of Florida	787
7. University of Michigan	758
8. Massachusetts Inst. of Technology	719
9. University of Bridgeport	698
10. Columbia University	603
11. George Washington University	599
12. Cornell University	575
13. Texas A&M University	544
14. North Carolina State University	539
15. Arizona State University	527
16. University of Texas, Arlington	508
17. New Jersey Inst. of Technology	499
18. Stevens Institute of Technology	480
19. University of Texas, Austin	475
20. Polytechnic Institute of NYU	474
21. George Mason University	427
22. Carnegie Mellon University	422
23. Purdue University	413
24. Illinois Institute of Technology	401
25. Pennsylvania State University	390
26. University of Minnesota, Twin Cities	389
27. Virginia Tech	386
28. University of Colorado, Boulder	375
29. University of California, Berkeley	373
30. Univ. of Illinois, Urbana-Champaign	363
31. University of Pennsylvania	353
32. Florida International University	345
33. Northwestern University	342
34. Ohio State University	339
35. University of Maryland, College Park	333
36. University of Texas, Dallas	331
37. Missouri Univ. of Science and Tech.	328
38. Southern Methodist University	327
39. University of Washington	325
40. University of Wisconsin, Madison	322
41. Northeastern University	314
42. Univ. of California, Los Angeles	307
43. Syracuse University	294
44. Stony Brook University	292
45. Wayne State University	285
46. Univ. of California, San Diego	283
47. SUNY, Buffalo	277
48. University of Arkansas	271
49. Old Dominion University	253
50. Air Force Institute of Technology	245

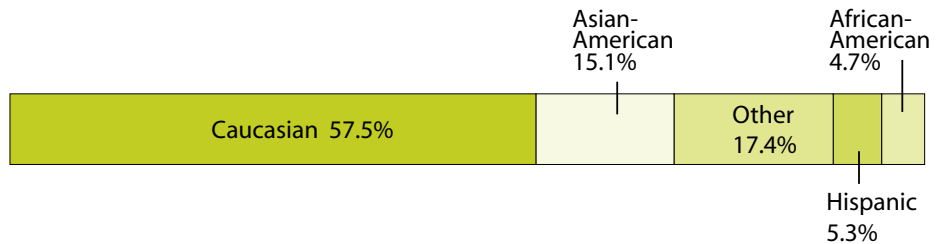
258 schools reported.

## MASTER'S DEGREES BY GENDER, 2009



	2000	2001	2002	2003	2004	2005	2006	2007	2008
Female	21.7%	22.1%	22.1%	22.3%	21.9%	22.7%	22.5%	22.4%	23.0%
Male	78.3%	77.9%	77.9%	77.7%	78.1%	77.3%	77.5%	77.6%	77.0%

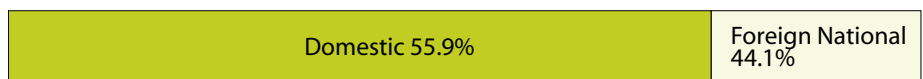
## MASTER'S DEGREES BY ETHNICITY, 2009\*



	2000	2001	2002	2003	2004	2005	2006	2007	2008
African American	4.4%	4.5%	4.7%	4.6%	4.3%	4.6%	4.4%	4.6%	4.8%
Hispanic	4.5%	3.9%	4.2%	4.3%	4.5%	5.0%	4.7%	5.2%	5.4%
Other	11.2%	13.6%	11.8%	12.1%	14.1%	14.4%	15.7%	15.2%	15.1%
Asian American	15.1%	15.4%	15.2%	15.8%	16.8%	17.7%	16.5%	16.5%	15.4%
Caucasian	64.8%	62.6%	64.1%	63.2%	60.3%	58.3%	58.7%	58.5%	59.3%

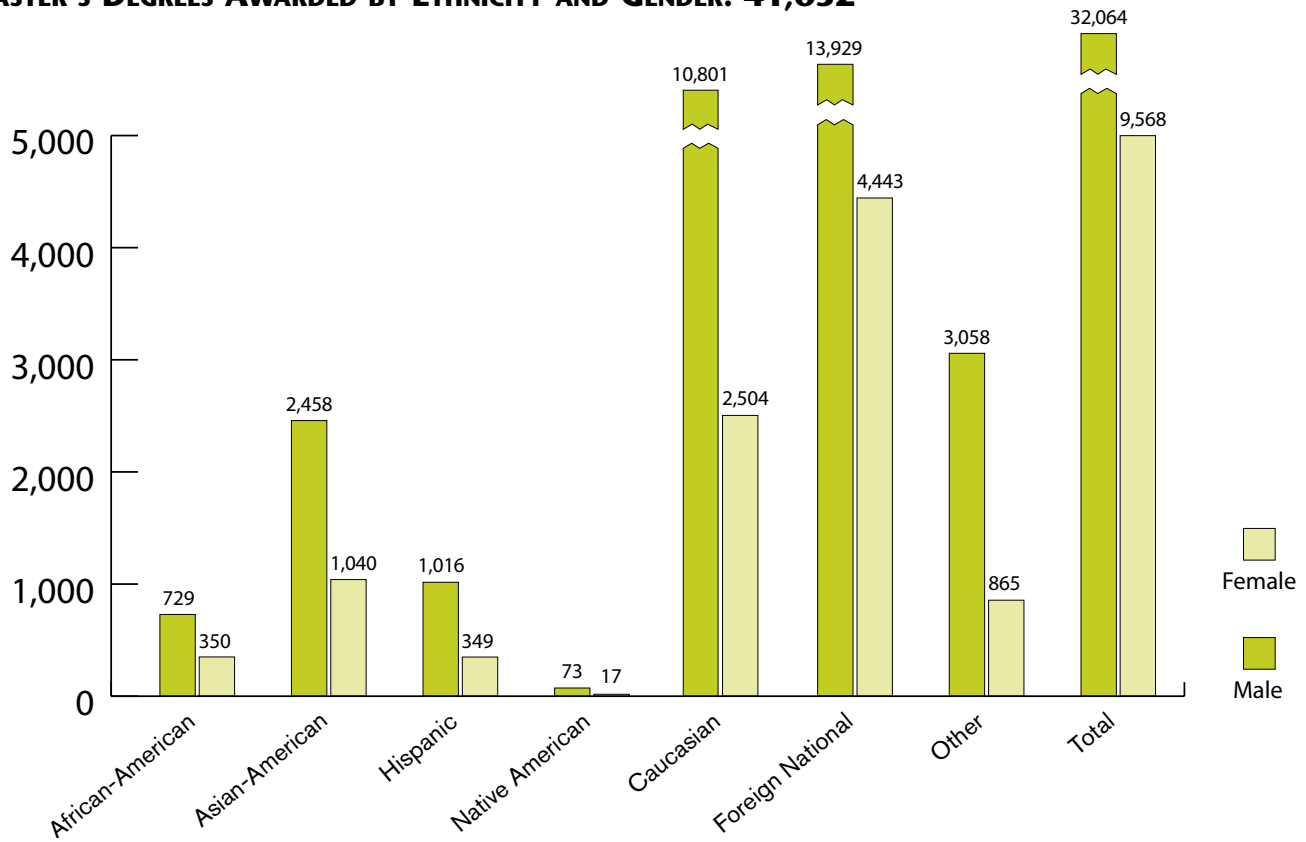
\* data on ethnicity does not include schools in Puerto Rico or foreign nationals. The percentage of Hispanic graduates is 5.9% if the two schools in Puerto Rico are included.

## MASTER'S DEGREES BY RESIDENCY, 2009



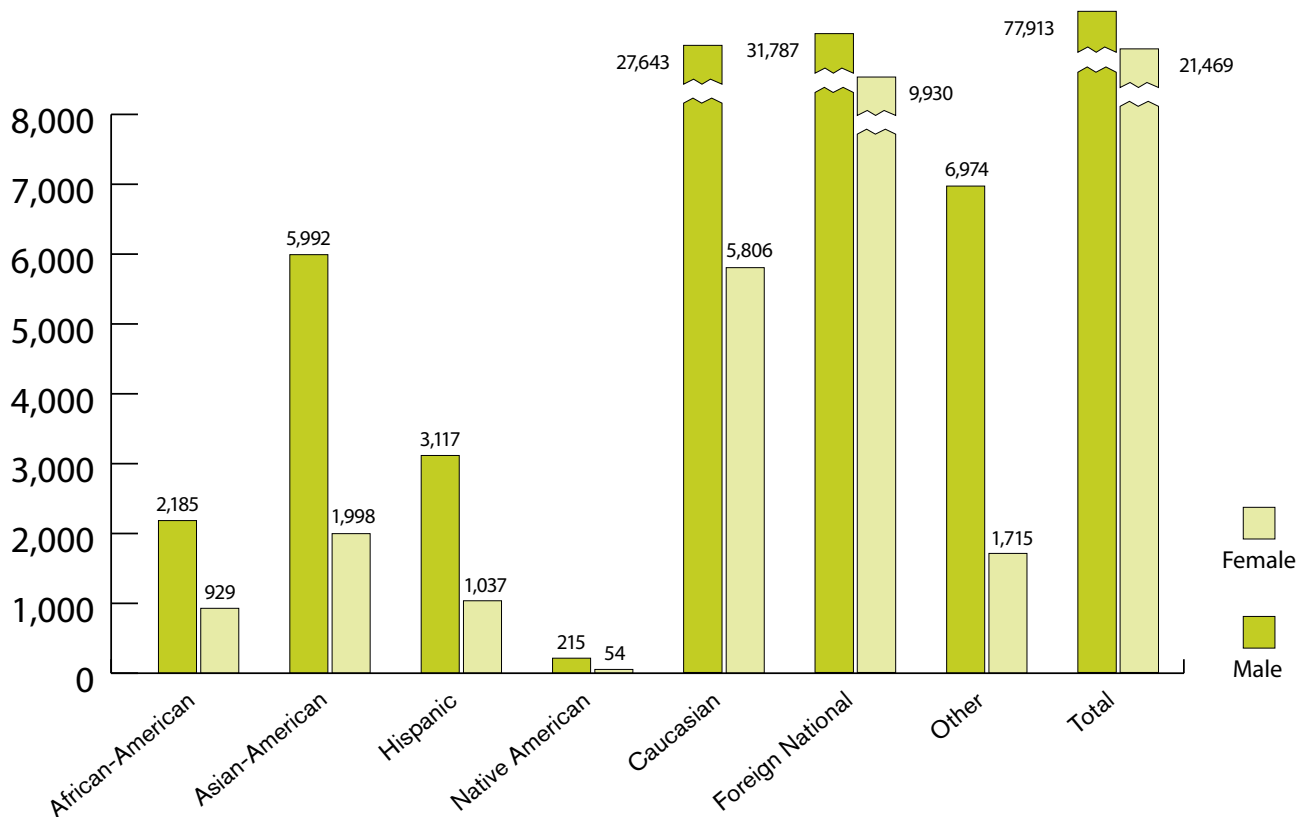
	2000	2001	2002	2003	2004	2005	2006	2007	2008
Foreign National	40.6%	43.0%	42.1%	46.0%	45.5%	42.6%	39.8%	38.7%	41.7%
Domestic	59.4%	57.0%	57.9%	54.0%	54.5%	57.4%	60.2%	61.3%	58.3%

**MASTER'S DEGREES AWARDED BY ETHNICITY AND GENDER: 41,632\***



\* Includes 86 male and 46 female graduates from schools in Puerto Rico.

**MASTER'S ENROLLMENT BY ETHNICITY AND GENDER: 99,382\***



\* Includes 424 Hispanic male and 230 Hispanic female enrolled students from schools in Puerto Rico.

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

1. Polytechnic Univ. of Puerto Rico	40.7%
2. Temple University	37.2%
3. S. Dakota School of Mines & Tech.	36.2%
4. San Jose State University	35.1%
5. University of Nevada, Las Vegas	34.7%
6. San Diego State University	34.2%
7. U. of Colorado, Colorado Springs	34.1%
8. Marquette University	34.1%
9. Rutgers University	34.1%
10. Duke University	33.9%
11. New Mexico Inst. of Mining & Tech.	33.3%
12. Tufts University	32.3%
13. Yale University	32.1%
14. Washington State University	31.7%
15. Michigan Technological University	31.4%
16. University of California, Berkeley	31.1%
17. Univ. of Massachusetts Dartmouth	31.1%
18. Brown University	30.8%
19. William Marsh Rice University	30.7%
20. University of Arkansas	30.3%

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

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

1. University of Iowa	39.5%
2. University of Pittsburgh	37.5%
3. Yale University	37.0%
4. Stony Brook University	33.9%
5. Duke University	33.3%
5. University of Oklahoma	33.3%
7. Rutgers University	32.6%
8. Northwestern University	32.0%
8. Washington University	32.0%
10. University of Louisville	31.3%
11. University of Delaware	31.0%
12. Colorado School of Mines	30.0%
12. Johns Hopkins University	30.0%
14. Carnegie Mellon University	29.7%
15. University of Arkansas	29.6%
16. University of Tennessee, Knoxville	28.8%
17. Louisiana State University	28.6%
17. Polytechnic Institute of NYU	28.6%
19. University of Notre Dame	28.3%
20. University of California, Irvine	27.9%

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

### GRADUATE ENROLLMENT BY SCHOOL\*

1. University of Southern California	4,142
2. Georgia Institute of Technology	3,756
3. Stanford University	3,366
4. Texas A&M University	2,906
5. Johns Hopkins University	2,825
6. University of Florida	2,773
7. Massachusetts Inst. of Technology	2,702
8. Univ. of Illinois, Urbana-Champaign	2,663
9. University of Michigan	2,660
10. Purdue University	2,418
11. North Carolina State University	2,399
12. Stevens Institute of Technology	2,259
13. University of Texas, Austin	2,207
14. Virginia Tech	2,032
15. Arizona State University	2,002
16. San Jose State University	1,951
17. Univ. of Minnesota, Twin Cities	1,878
18. Univ. of Maryland, College Park	1,842
19. Columbia University	1,841
20. University of California, Berkeley	1,768
21. Polytechnic Institute of NYU	1,759
22. Pennsylvania State University	1,665
23. George Mason University	1,660
24. Univ. of California, Los Angeles	1,635
25. Cornell University	1,610
26. University of Texas, Arlington	1,593
27. University of Washington	1,541
28. Ohio State University	1,509
29. University of Wisconsin, Madison	1,499
30. University of Colorado, Boulder	1,476
31. Carnegie Mellon University	1,467
32. New Jersey Institute of Technology	1,399
33. University of California, San Diego	1,345
34. Northwestern University	1,343
35. George Washington University	1,322
36. Wichita State University	1,264
37. SUNY, Buffalo	1,245
38. University of Pennsylvania	1,244
39. University of Texas, Dallas	1,213
40. University of Central Florida	1,203
41. Northeastern University	1,201
42. Drexel University	1,161
43. Illinois Institute of Technology	1,146
43. University of California, Davis	1,146
45. Clemson University	1,087
46. Colorado School of Mines	1,063
47. Stony Brook University	1,050
48. University of Bridgeport	1,049
49. University of Illinois, Chicago	1,005
50. Iowa State University	1,004

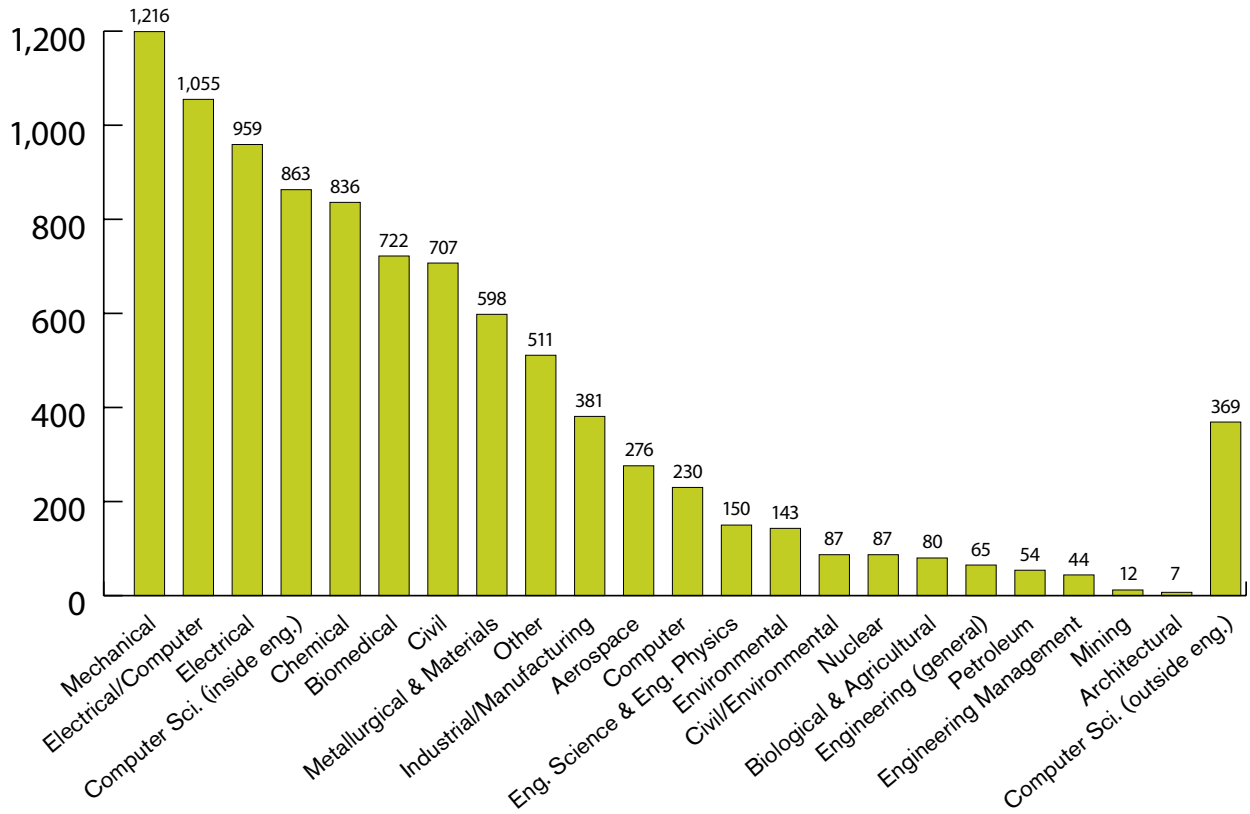
259 total schools reported.  
\*includes both full-time and part-time

### ENGINEERING DOCTORAL DEGREES AWARDED BY SCHOOL

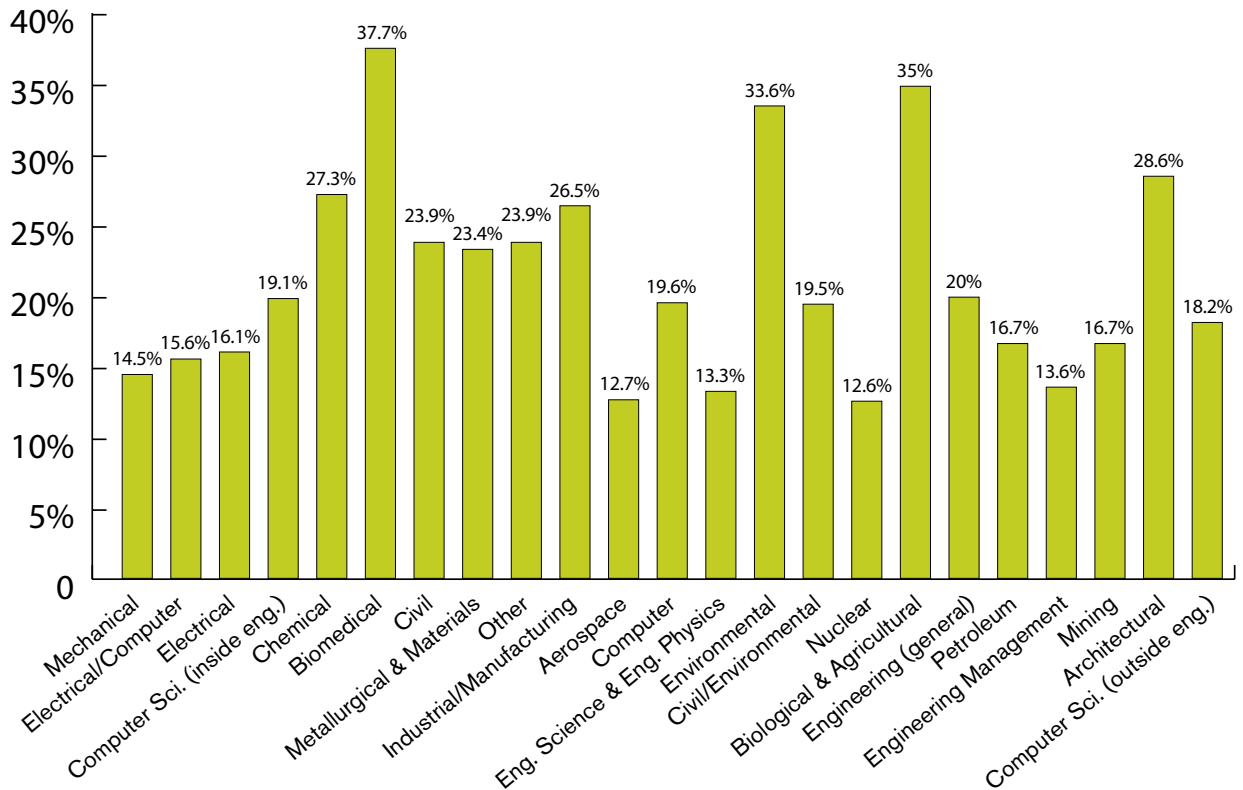
1. Georgia Institute of Technology	332
2. Massachusetts Inst. of Technology	302
3. University of California, Berkeley	268
4. University of Michigan	263
5. Univ. of Illinois, Urbana-Champaign	256
6. Stanford University	247
7. Purdue University	218
8. Texas A&M University	190
9. University of Texas, Austin	186
10. University of Florida	180
11. Pennsylvania State University	164
12. University of Southern California	163
13. North Carolina State University	157
14. Virginia Tech	154
15. University of California, Los Angeles	143
15. Ohio State University	143
17. Cornell University	137
18. University of California, San Diego	132
19. University of Maryland, College Park	127
20. Arizona State University	125
21. University of Wisconsin, Madison	124
22. Univ. of California, Santa Barbara	101
22. Carnegie Mellon University	101
24. Northwestern University	100
24. University of Washington	100
26. University of California, Davis	99
27. Iowa State University	94
28. University of Minnesota, Twin Cities	92
29. University of Arizona	91
30. Johns Hopkins University	90
30. Princeton University	90
32. University of California, Irvine	86
33. California Institute of Technology	81
34. Columbia University	77
35. Rensselaer Polytechnic Institute	75
36. University of Pennsylvania	74
37. University of Utah	73
38. William Marsh Rice University	68
39. University of Central Florida	67
40. University of Colorado, Boulder	65
41. University of Illinois, Chicago	64
42. University of Virginia	63
43. Stony Brook University	62
44. Boston University	61
44. Case Western Reserve University	61
44. George Washington University	61
47. University of Tennessee, Knoxville	59
48. University of Delaware	58
49. Michigan State University	56
49. SUNY, Buffalo	56
49. Vanderbilt University	56
50. University of Texas, Arlington	55

194 total schools reported.

**DOCTORAL DEGREES AWARDED BY DISCIPLINE: 9,083**



**PERCENTAGE OF DOCTORAL DEGREES AWARDED TO WOMEN BY DISCIPLINE: 21.3%**



### DOCTORAL DEGREES AWARDED TO FOREIGN NATIONALS BY SCHOOL

1. Georgia Institute of Technology	174
2. Purdue University	153
3. Texas A&M University	147
4. University of Michigan	145
5. Univ. of Illinois, Urbana-Champaign	144
6. Massachusetts Inst. of Technology	136
7. Stanford University	128
8. University of Florida	119
9. University of Texas, Austin	116
10. Ohio State University	110
11. University of Southern California	104
12. University of California, Berkeley	102
13. North Carolina State University	97
14. Virginia Tech	92
15. University of California, Los Angeles	81
15. Pennsylvania State University	81
17. Iowa State University	76
18. Arizona State University	75
19. Cornell University	72
20. University of Maryland, College Park	67
20. University of Wisconsin, Madison	67
22. University of Arizona	59
22. University of Minnesota, Twin Cities	59
24. Carnegie Mellon University	55
25. Univ. of California, Santa Barbara	53
26. University of California, San Diego	48
27. Columbia University	47
28. University of California, Davis	46
28. University of Central Florida	46
28. Rensselaer Polytechnic Institute	46
31. Northwestern University	45
32. University of Illinois, Chicago	44
32. SUNY, Buffalo	44
32. Stony Brook University	44
35. Princeton University	43
35. University of Texas, Arlington	43
37. Michigan State University	42
38. University of Cincinnati	40
38. Johns Hopkins University	40
38. University of Washington	40
41. Case Western Reserve University	38
42. University of Tennessee, Knoxville	37
43. New Jersey Institute of Technology	35
44. University of Utah	34
44. University of Virginia	34
46. Boston University	32
46. University of Delaware	32
46. University of Pittsburgh	32
46. Washington University	32
50. Louisiana State University	31
50. University of Pennsylvania	31

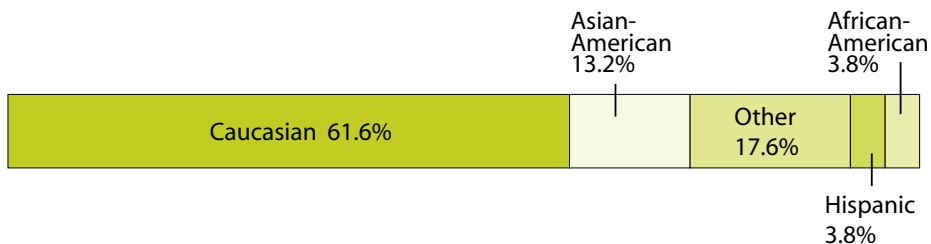
194 schools reported.

### DOCTORAL DEGREES BY GENDER, 2009



	2000	2001	2002	2003	2004	2005	2006	2007	2008
Female	15.9%	16.9%	17.4%	17.4%	17.8%	18.3%	20.2%	20.8%	21.1%
Male	84.1%	83.1%	82.6%	82.6%	82.2%	81.7%	79.8%	79.2%	78.9%

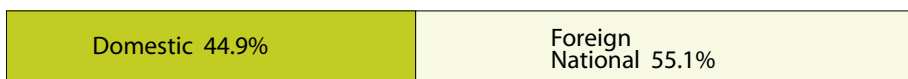
### DOCTORAL DEGREES BY ETHNICITY, 2009\*



	2000	2001	2002	2003	2004	2005	2006	2007	2008
African American	3.5%	3.9%	3.5%	3.4%	3.8%	3.7%	3.7%	3.6%	3.2%
Hispanic	2.9%	3.3%	3.9%	3.6%	3.5%	3.7%	3.0%	3.5%	3.6%
Other	13.8%	14.2%	11.4%	11.9%	14.0%	14.2%	15.1%	18.7%	19.5%
Asian American	13.8%	13.9%	14.6%	13.4%	14.0%	14.4%	16.6%	12.0%	12.4%
Caucasian	66.0%	64.7%	66.6%	66.7%	64.7%	64.0%	61.6%	62.2%	61.3%

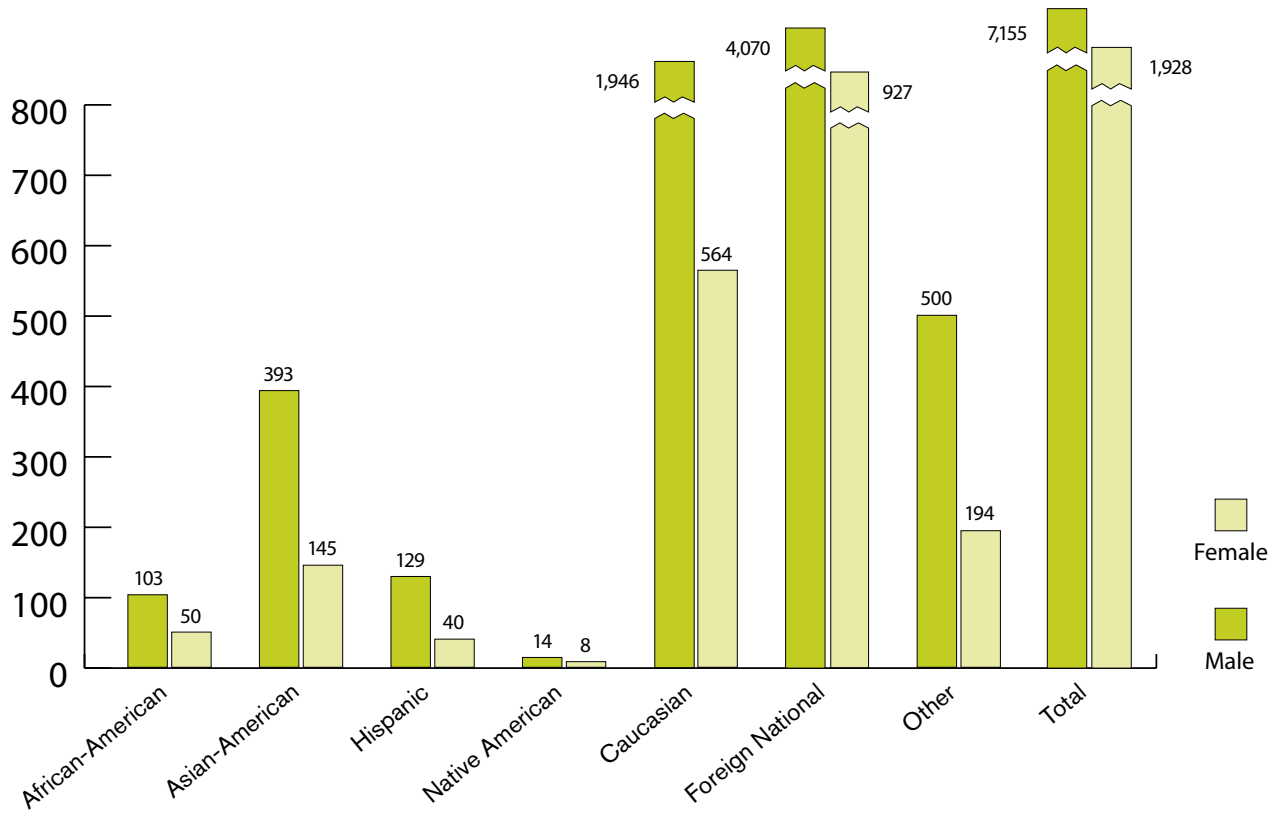
\* Data on ethnicity does not include schools in Puerto Rico or foreign nationals. The percentage of Hispanic graduates is 4.0% if the two schools in Puerto Rico are included.

### DOCTORAL DEGREES BY RESIDENCY, 2009



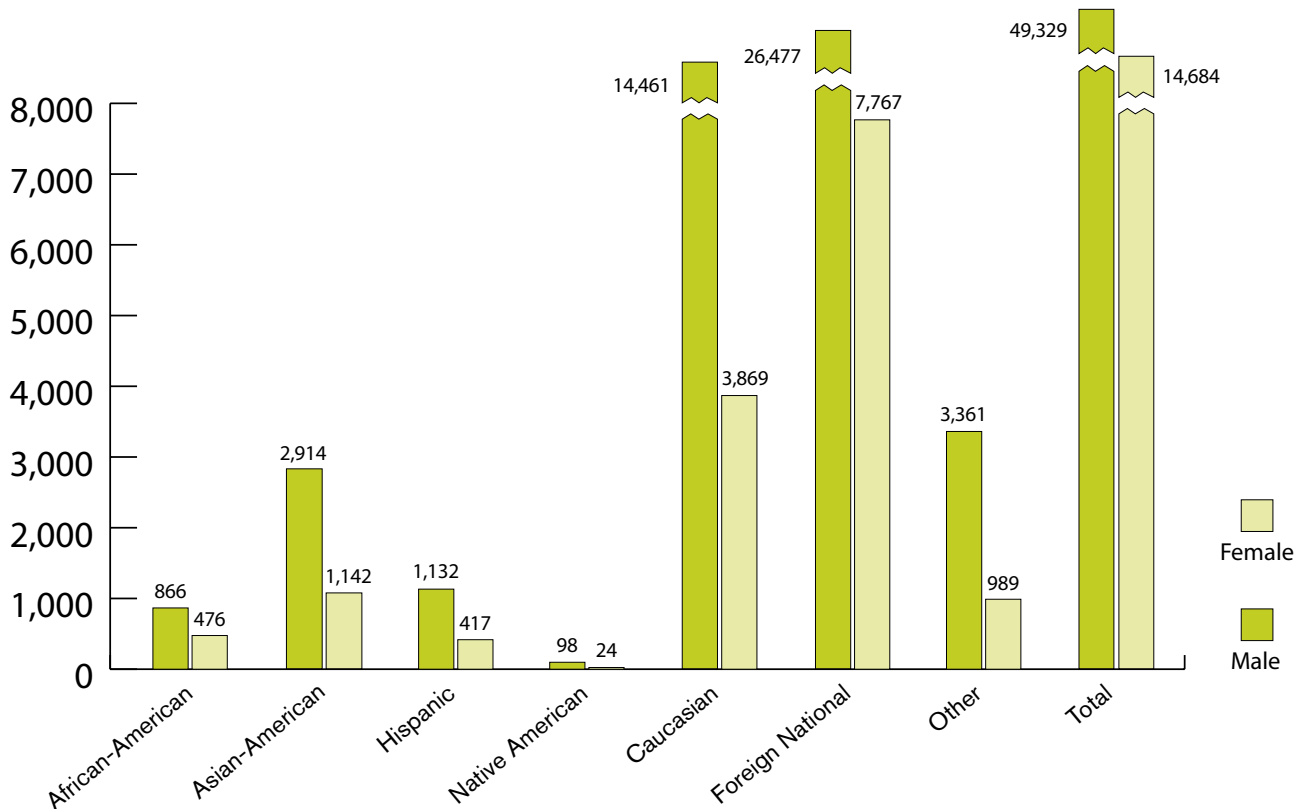
	2000	2001	2002	2003	2004	2005	2006	2007	2008
Foreign National	49.9%	53.8%	54.0%	55.2%	57.8%	59.4%	61.7%	61.6%	58.3%
Domestic	50.1%	46.2%	46.0%	44.8%	42.2%	40.6%	38.3%	38.4%	41.7%

**DOCTORAL DEGREES AWARDED BY ETHNICITY AND GENDER: 9,083\***



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

**DOCTORAL ENROLLMENT BY ETHNICITY AND GENDER: 64,013\***



\* Includes 48 Hispanic male and 25 Hispanic female enrolled students from schools in Puerto Rico.



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

1. Georgia Institute of Technology	1,543
2. Pennsylvania State University	1,236
3. University of Michigan	1,126
4. Purdue University	1,116
5. Virginia Tech	1,077
6. Univ. of Illinois, Urbana-Champaign	1,020
7. Texas A&M University	973
8. University of Texas, Austin	958
9. University of Florida	948
10. North Carolina State University	925
11. Iowa State University	788
12. California Poly. State U., SLO	774
13. University of California, Berkeley	768
14. Missouri Univ. of Science and Tech	682
15. Ohio State University	655
16. Cornell University	652
17. University of Minnesota, Twin Cities	630
17. University of Washington	630
19. Michigan Technological University	618
20. Univ. of Puerto Rico, Mayaguez	614
21. University of Maryland, College Park	603
22. University of California, San Diego	599
23. California State Poly. U., Pomona	596
24. University of Wisconsin, Madison	584
25. Colorado School of Mines	573
26. Rensselaer Polytechnic Institute	569
27. Arizona State University	561
28. Drexel University	549
29. Massachusetts Inst. of Technology	502
30. University of Colorado, Boulder	488
31. Oregon State University	474
32. Clemson University	472
33. University of California, Los Angeles	468
34. Rutgers University	464
34. Texas Tech University	464
36. University of California, Irvine	461
36. SUNY, Buffalo	461
38. University of Central Florida	459
39. University of Arizona	456
40. University of California, Davis	416
41. Kansas State University	409
42. Rochester Institute of Technology	404
43. University of Pittsburgh	402
43. San Jose State University	402
45. University of Virginia	399
46. Kettering University	397
47. Worcester Polytechnic Institute	385
48. Michigan State University	383
49. University of Nebraska, Lincoln	379
50. Auburn University	378

341 schools reported.

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

1. University of Southern California	1,032
2. Georgia Institute of Technology	1,018
3. San Jose State University	942
4. Stanford University	823
5. University of Florida	787
6. University of Michigan	758
7. Massachusetts Inst. of Technology	719
8. University of Bridgeport	562
9. Johns Hopkins University	559
10. Texas A&M University	514
11. George Washington University	508
12. New Jersey Institute of Technology	499
13. Cornell University	475
13. University of Texas, Austin	475
15. Columbia University	453
16. Carnegie Mellon University	422
17. Arizona State University	416
18. Purdue University	413
19. North Carolina State University	412
20. Illinois Institute of Technology	401
21. University of Texas, Arlington	383
22. Stevens Institute of Technology	381
23. Polytechnic Institute of NYU	380
24. University of California, Berkeley	348
24. Pennsylvania State University	348
26. University of Maryland, College Park	333
27. Northwestern University	330
28. Virginia Tech	329
29. Missouri Univ. of Science and Tech.	328
30. University of Colorado, Boulder	327
31. University of Washington	325
32. University of Wisconsin, Madison	322
33. Florida International University	316
34. Northeastern University	314
35. Univ. of Illinois, Urbana-Champaign	307
36. Ohio State University	296
37. Southern Methodist University	287
38. Wayne State University	285
39. University of Arkansas	263
40. University of Pennsylvania	260
41. Old Dominion University	253
42. Rochester Institute of Technology	234
43. Syracuse University	231
44. University of California, San Diego	229
45. University of California, Los Angeles	227
46. Naval Postgraduate School	225
47. Air Force Institute of Technology	224
48. University of Minnesota, Twin Cities	223
49. University of Central Florida	211
49. Iowa State University	211

258 schools reported.

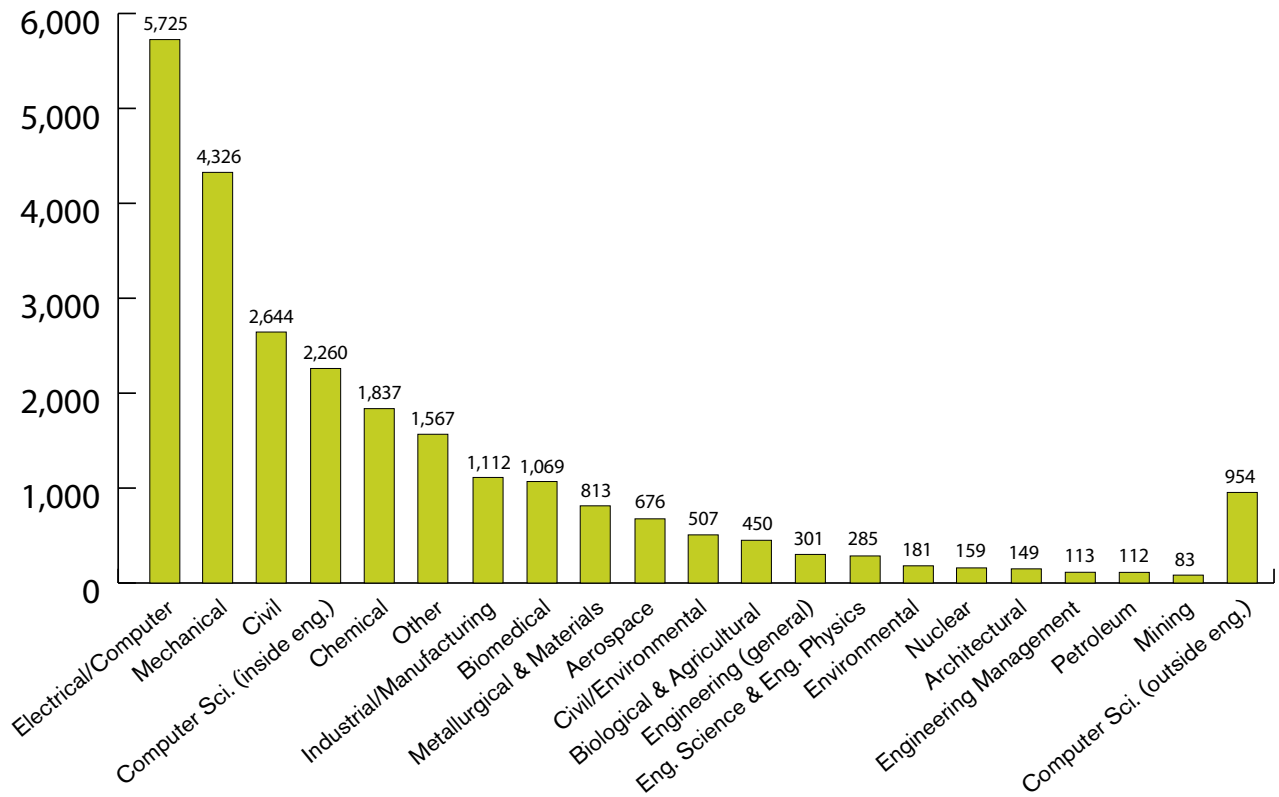
### ENGINEERING DOCTORAL DEGREES AWARDED BY SCHOOL (EXCLUDING COMPUTER SCIENCE)

1. Georgia Institute of Technology	332
2. Massachusetts Inst. of Technology	302
3. University of Michigan	263
4. University of California, Berkeley	233
5. Stanford University	226
6. Purdue University	218
7. Univ. of Illinois, Urbana-Champaign	214
8. University of Texas, Austin	186
9. University of Florida	180
10. Texas A&M University	170
11. Pennsylvania State University	142
12. Virginia Tech	137
13. North Carolina State University	134
14. University of Southern California	130
15. University of Maryland, College Park	127
16. University of Wisconsin, Madison	124
17. Ohio State University	117
18. University of California, Los Angeles	116
19. Cornell University	114
20. Arizona State University	107
20. University of California, San Diego	107
22. Carnegie Mellon University	101
23. University of Washington	100
24. Northwestern University	95
25. Iowa State University	94
26. University of Arizona	91
27. University of California, Irvine	86
28. University of California, Davis	82
28. Univ. of California, Santa Barbara	82
30. California Institute of Technology	79
31. Johns Hopkins University	78
32. University of Minnesota, Twin Cities	75
32. Rensselaer Polytechnic Institute	75
34. Princeton University	68
35. Boston University	61
36. University of Utah	60
37. University of Central Florida	59
37. Columbia University	59
39. University of Delaware	58
40. University of Pennsylvania	56
40. University of Virginia	56
42. Case Western Reserve University	55
43. University of Illinois, Chicago	54
44. University of Colorado, Boulder	53
44. William Marsh Rice University	53
46. University of Cincinnati	52
47. Duke University	51
48. Colorado School of Mines	50
49. Michigan State University	49
49. University of Tennessee, Knoxville	49
49. Vanderbilt University	49

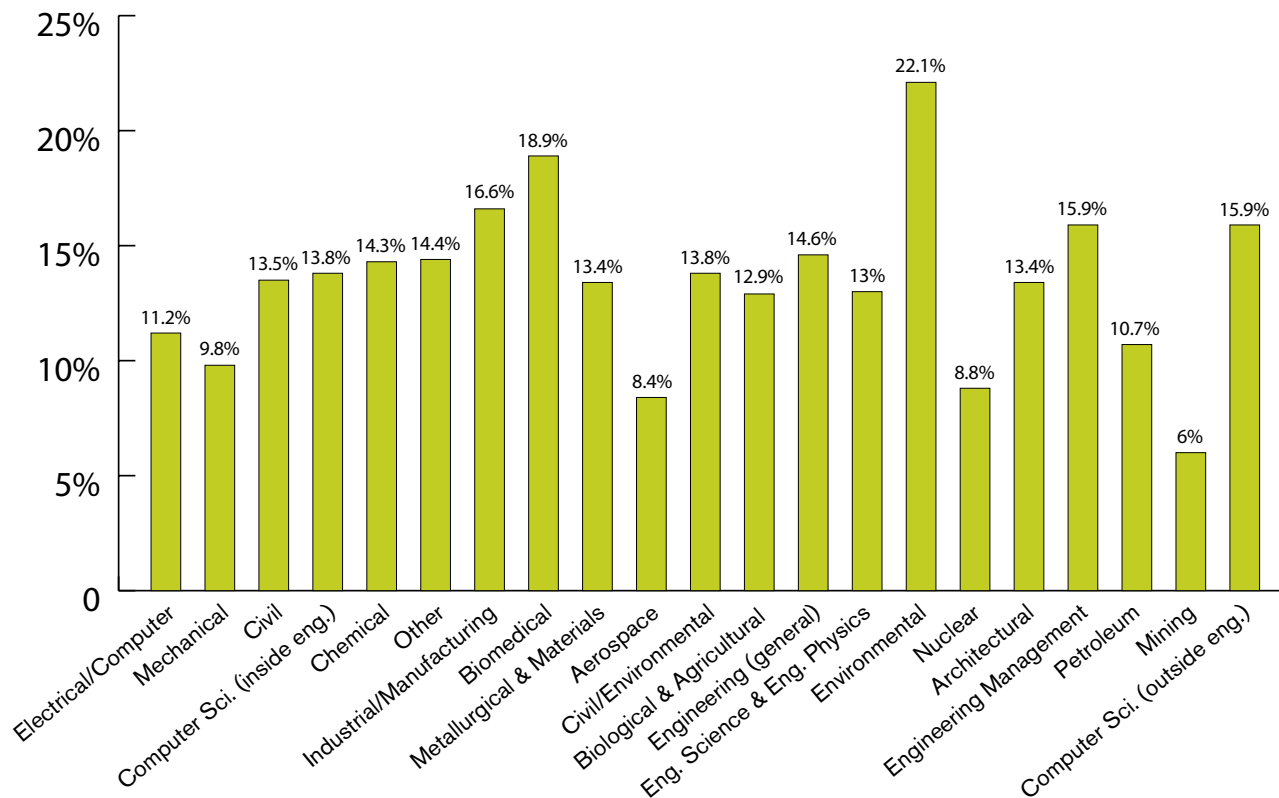
193 schools reported.

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: 24,369**



**PERCENTAGE OF WOMEN TENURED/TENURE-TRACK FACULTY BY DISCIPLINE: 12.7%**

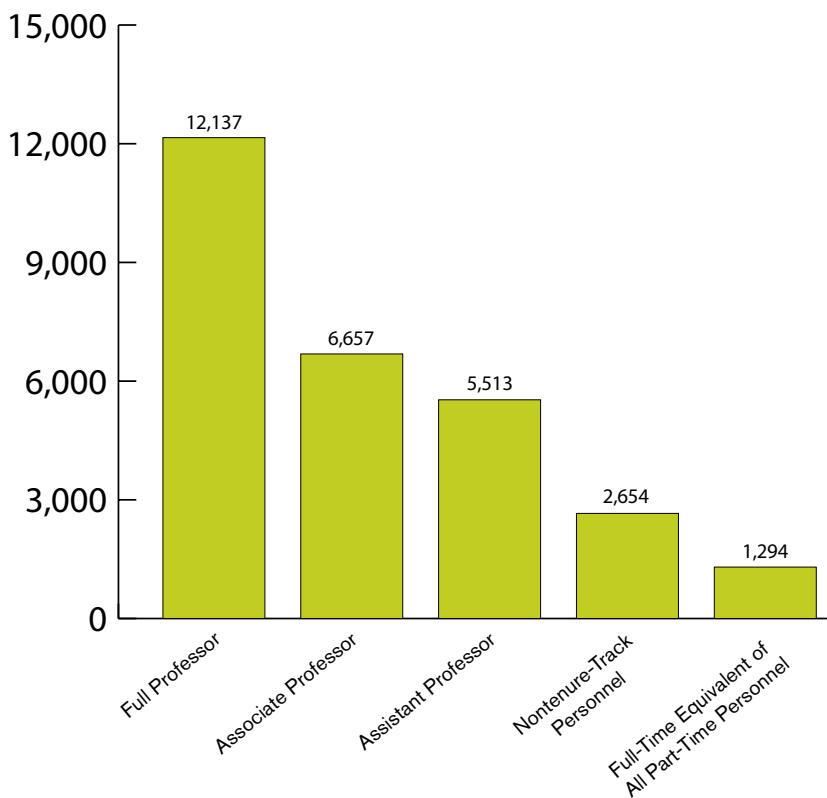


**TENURED/TENURE-TRACK FACULTY MEMBERS BY SCHOOL**

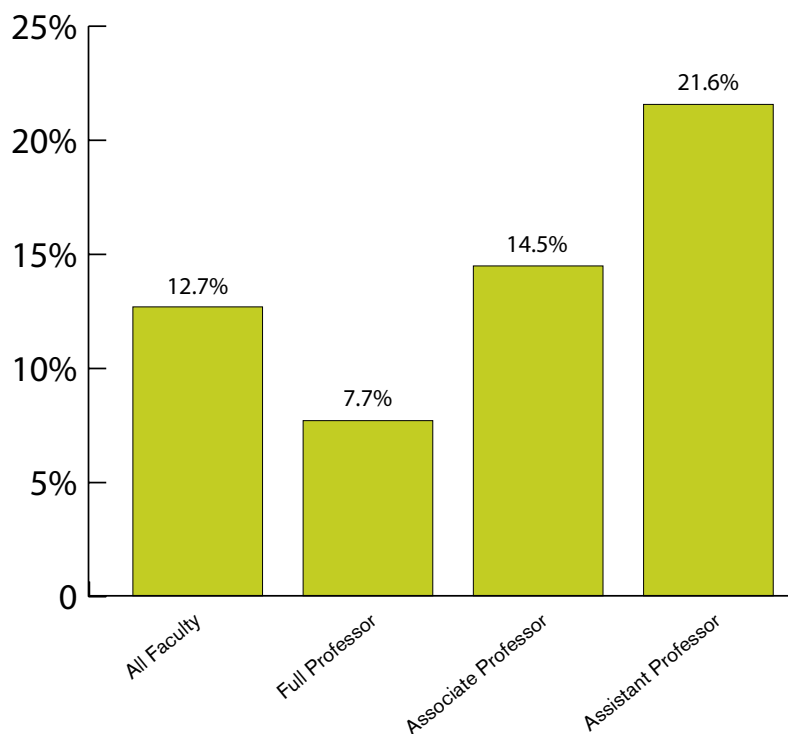
1. Georgia Institute of Technology	449
2. Univ. of Illinois, Urbana-Champaign	418
3. Massachusetts Inst. of Technology	369
4. Texas A&M University	347
5. University of Michigan	346
6. Purdue University	327
7. Virginia Tech	326
8. Pennsylvania State University	325
9. North Carolina State University	302
10. University of Florida	272
11. Ohio State University	271
12. University of Texas, Austin	266
13. University of California, Berkeley	246
14. Cornell University	242
15. Iowa State University	226
16. Stanford University	224
17. University of California, Davis	217
17. University of Washington	217
19. University of Minnesota, Twin Cities	207
20. Clemson University	204
21. University of Maryland, College Park	197
22. Arizona State University	196
23. University of Wisconsin, Madison	189
24. University of California, San Diego	184
25. University of Colorado, Boulder	183
25. Univ. of Puerto Rico, Mayaguez	183
27. Northwestern University	179
28. University of Arizona	177
29. University of Nebraska, Lincoln	171
30. University of Southern California	168
31. Colorado School of Mines	166
31. Michigan State University	166
33. Columbia University	162
34. Missouri Univ. of Science and Tech.	161
35. University of California, Los Angeles	157
36. California Poly. State U., SLO	152
37. University of Tennessee, Knoxville	149
38. University of Utah	148
39. Auburn University	147
39. Carnegie Mellon University	147
41. Johns Hopkins University	143
41. University of Kentucky	143
43. University of Virginia	138
44. Univ. of California, Santa Barbara	137
45. Drexel University	134
46. Rensselaer Polytechnic Institute	131
46. University of Texas, Arlington	131
48. SUNY, Buffalo	130
48. Rutgers University	130
50. Oklahoma State University	128

333 schools reported.

**NUMBER OF TEACHING PERSONNEL BY RANK: 28,255**



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



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

1. Santa Clara University	34.3%
2. California State Univ., Los Angeles	29.4%
3. Boise State University	28.6%
4. Union College	25.0%
5. San Jose State University	24.6%
6. Bucknell University	23.9%
7. University of New Haven	22.6%
8. Univ. of Tennessee, Chattanooga	22.5%
9. Rowan University	21.9%
10. Univ. of Maryland, Baltimore County	21.4%
11. Lafayette College	21.2%
11. Mercer University	21.2%
11. Tufts University	21.2%
14. Miami University	20.5%
15. Drexel University	20.1%
16. California State Univ., Sacramento	20.0%
16. George Mason University	20.0%
16. Gonzaga University	20.0%
16. Lawrence Technological University	20.0%
16. Oakland University	20.0%
16. Tennessee State University	20.0%
16. Tuskegee University	20.0%
23. Rose-Hulman Inst. of Technology	19.8%
23. University of Washington	19.8%

25. William Marsh Rice University	19.3%
26. Villanova University	19.0%
27. Northern Arizona University	18.4%
28. University of California, Davis	18.0%
29. Univ. of North Carolina, Chapel Hill	17.6%
30. University of Alabama, Huntsville	17.5%
30. University of California, Santa Cruz	17.5%
32. Virginia Commonwealth University	17.4%
33. U.S. Naval Academy	17.2%
34. University of Alaska, Fairbanks	17.1%
34. California State Poly. U., Pomona	17.1%
34. Polytechnic Univ. of Puerto Rico	17.1%
37. University of Colorado, Boulder	16.9%
37. Univ. of Puerto Rico, Mayaguez	16.9%
39. California Poly. State U., SLO	16.4%
39. Texas Tech University	16.4%
41. Worcester Polytechnic Institute	16.3%
42. George Washington University	16.2%
43. Oregon State University	16.1%
44. University of Massachusetts, Lowell	16.0%
44. Stevens Institute of Technology	16.0%
44. U.S. Coast Guard Academy	16.0%
44. SUNY, Coll. of Env. Science & Forestry	16.0%
48. University of Michigan	15.9%
48. University of Toledo	15.9%
50. Harvard University	15.8%

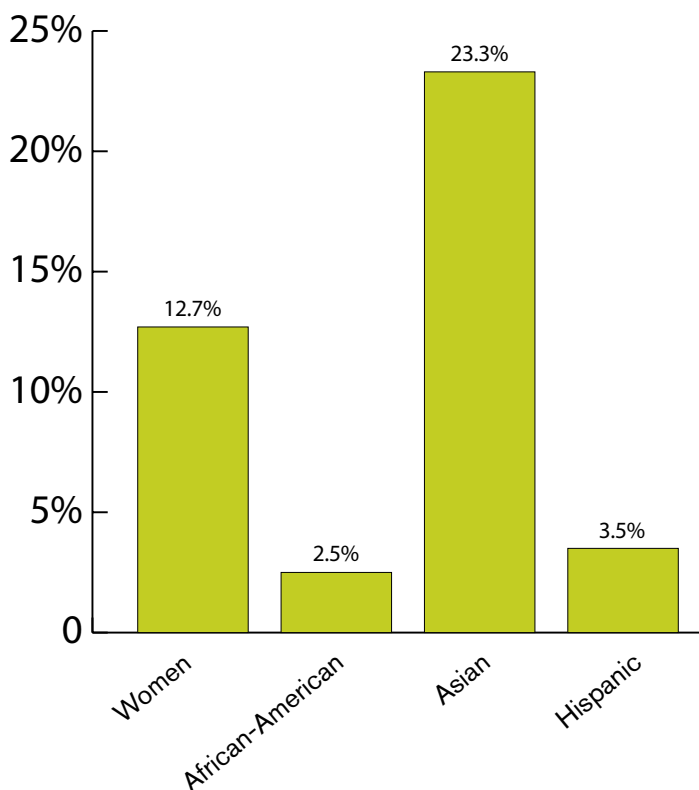
\*Minimum of 25 faculty members.  
240 schools fit this criterion.

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

1. Georgia Institute of Technology	62
2. University of Michigan	55
3. Massachusetts Inst. of Technology	54
4. Purdue University	51
5. Texas A&M University	49
6. Univ. of Illinois, Urbana-Champaign	44
7. University of Washington	43
8. Pennsylvania State University	41
9. University of California, Davis	39
9. Virginia Tech	39
11. Ohio State University	35
12. University of California, Berkeley	33
13. University of Colorado, Boulder	31
13. North Carolina State University	31
13. University of Puerto Rico, Mayaguez	31
13. Stanford University	31
17. Arizona State University	30
17. University of Texas, Austin	30
19. University of Florida	29
20. Cornell University	28

333 schools reported.

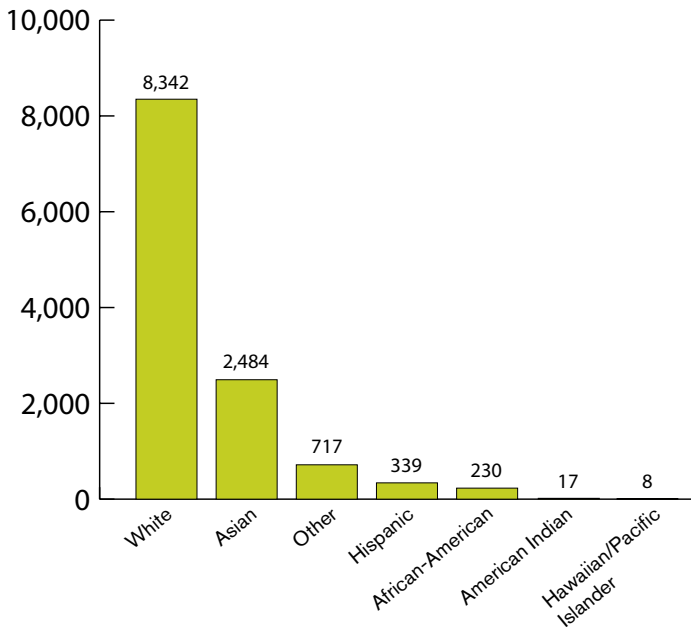
**PERCENTAGE OF WOMEN AND MINORITY FACULTY, 2001-2009\***



	Women	African-American	Asian	Hispanic
2001	8.9%	2.1%	17.0%	3.0%
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%

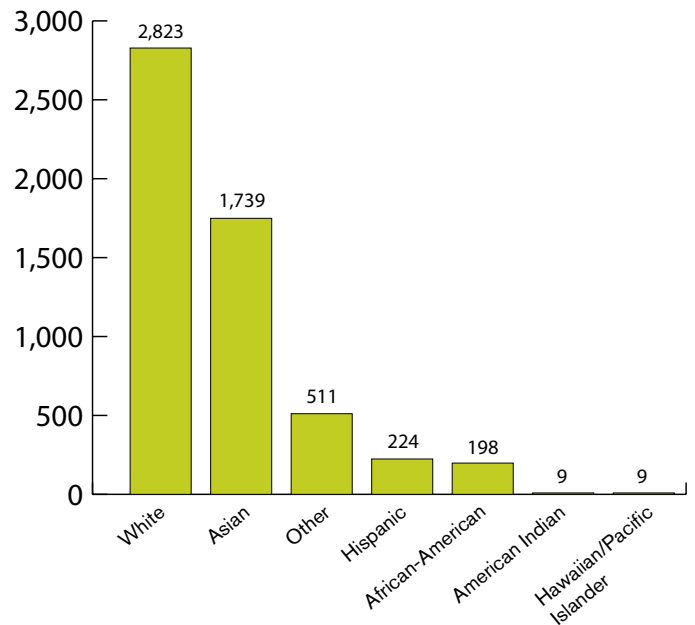
\*Note: Includes faculty data from University of Puerto Rico, Mayaguez and Polytechnic Univ. of Puerto Rico

**NUMBER OF FULL PROFESSORS BY RACE/  
ETHNICITY: 12,137\***



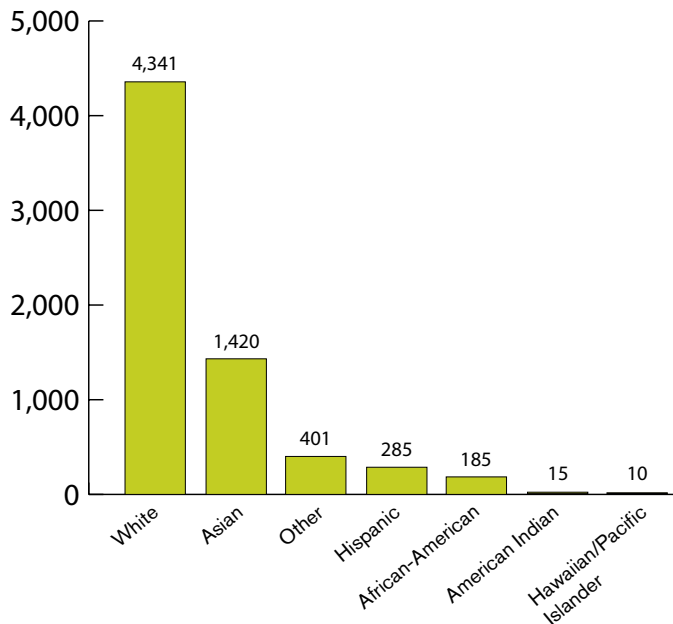
\*Note: Includes 99 Hispanic faculty from University of Puerto Rico, Mayaguez and Polytechnic Univ. of Puerto Rico.

**NUMBER OF ASSISTANT PROFESSORS BY RACE/  
ETHNICITY: 5,513\***



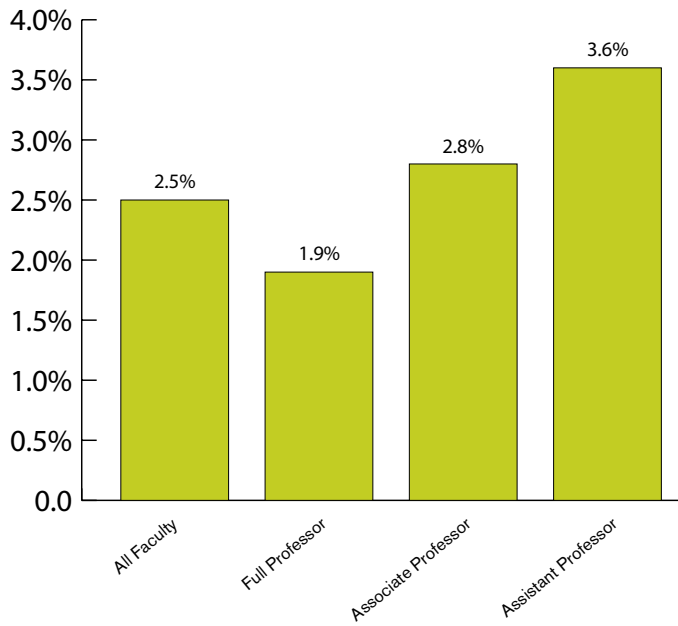
\* Note: Includes 39 Hispanic faculty from University of Puerto Rico, Mayaguez and Polytechnic Univ. of Puerto Rico.

**NUMBER OF ASSOCIATE PROFESSORS BY  
RACE/ETHNICITY: 6,657\***

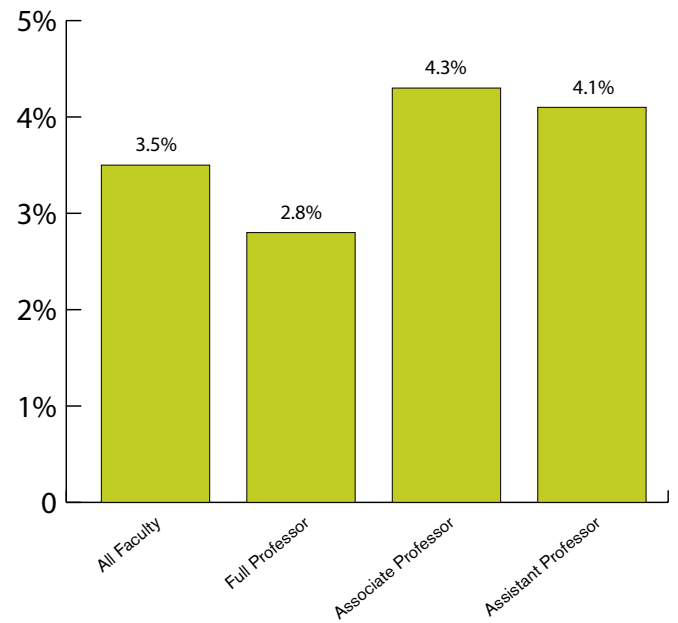


\*Note: Includes 75 Hispanic faculty from University of Puerto Rico, Mayaguez and Polytechnic Univ. of Puerto Rico.

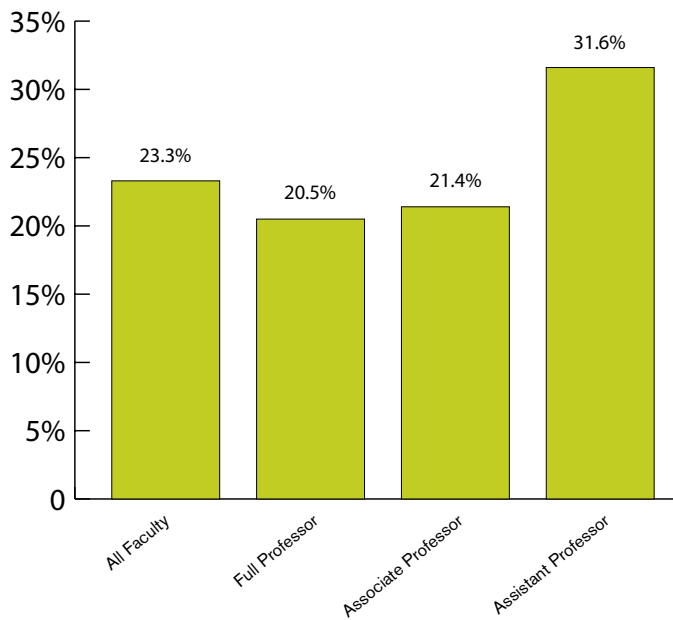
**PERCENTAGE OF AFRICAN-AMERICAN TENURED/TENURE-TRACK FACULTY BY LEVEL\***



**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 and Polytechnic Univ. of Puerto Rico

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

1. Howard University	29
2. Georgia Institute of Technology	20
2. North Carolina A&T State Univ.	20
4. Southern University and A&M College	18
5. FAMU-FSU College of Engineering	16
5. Prairie View A&M University	16
7. Morgan State University	13
8. Massachusetts Inst. of Technology	12
8. North Carolina State University	12
10. University of Michigan	11
10. Virginia Tech	11
12. Cornell University	9
12. Univ. of Illinois, Urbana-Champaign	9
12. Jackson State University	9
12. Tuskegee University	9
16. University of Central Florida	8
16. University of Maryland, College Park	8
16. Pennsylvania State University	8
16. Virginia State University	8
20. Clemson University	7
20. University of Florida	7
20. Purdue University	7

333 schools reported.

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

1. Univ. of Illinois, Urbana-Champaign	112
2. Georgia Institute of Technology	105
3. Purdue University	104
4. Texas A&M University	98
5. University of Florida	83
6. Ohio State University	78
7. University of Michigan	75
8. Iowa State University	72
9. North Carolina State University	68
10. Arizona State University	67
11. Pennsylvania State University	65
12. Virginia Tech	63
13. Michigan State University	61
14. University of Texas, Arlington	60
15. University of California, Davis	58
16. University of Nebraska, Lincoln	55
17. University of Missouri	54
17. SUNY, Buffalo	54
17. University of Washington	54
20. University of California, Los Angeles	53
20. University of Maryland, College Park	53

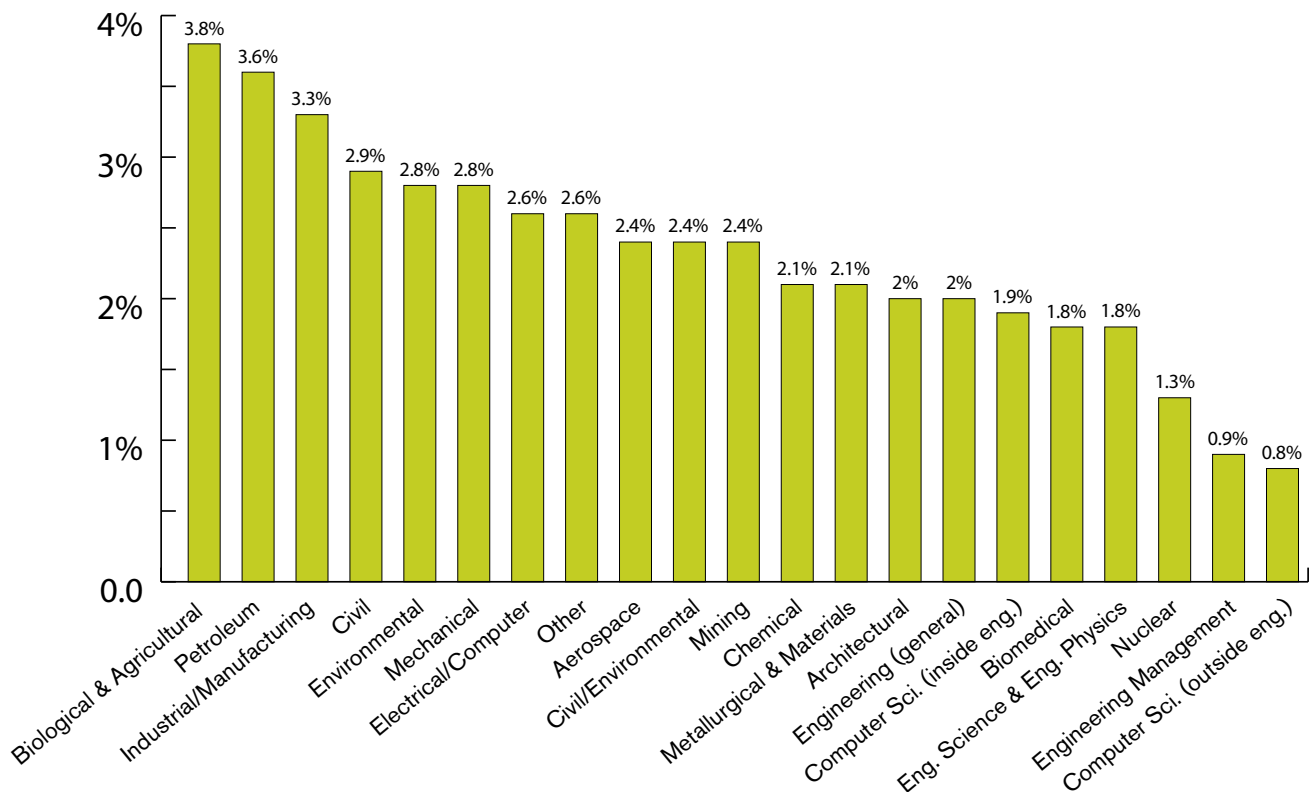
333 schools reported.

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

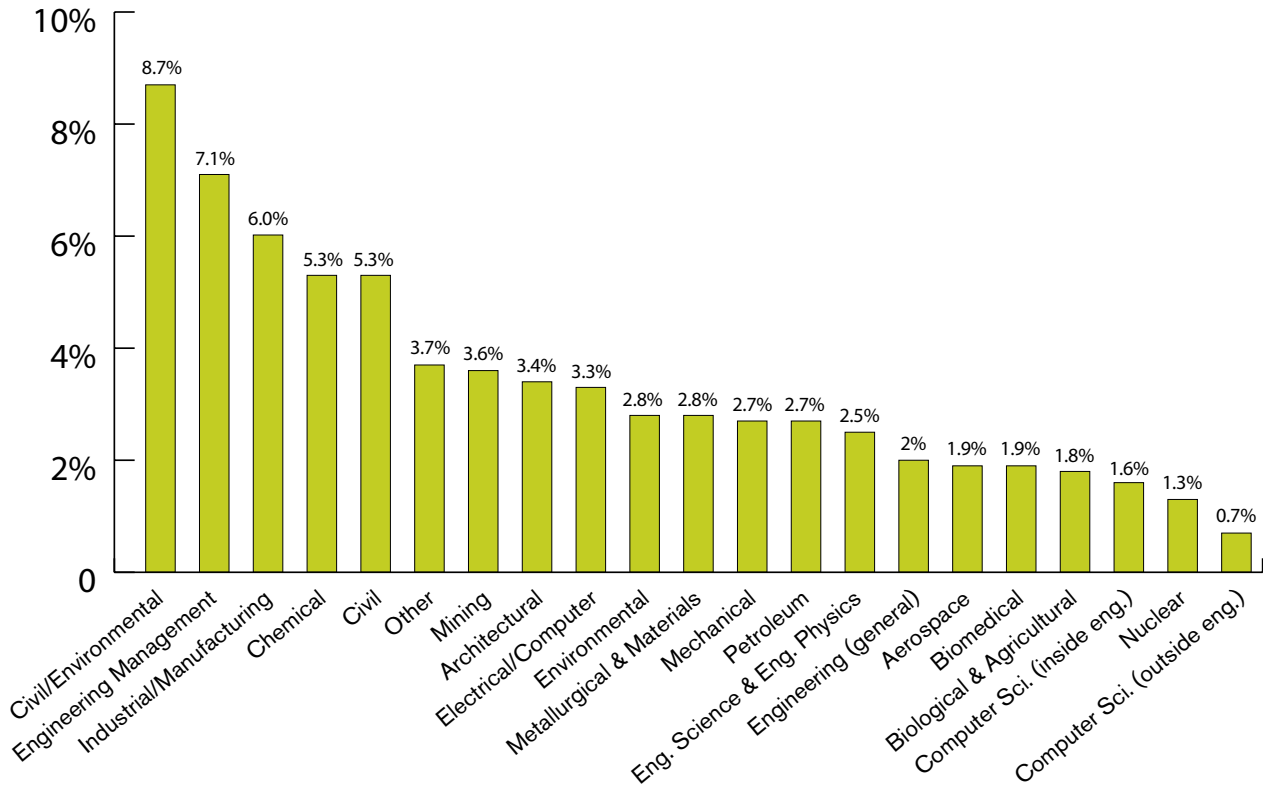
1. Univ. of Puerto Rico, Mayaguez	146
2. Polytechnic Univ. of Puerto Rico	67
3. University of Texas, El Paso	24
4. Texas A&M University	21
5. Purdue University	15
6. Pennsylvania State University	13
7. Virginia Tech	12
8. University of Arizona	11
8. University of California, Berkeley	11
8. Univ. of Illinois, Urbana-Champaign	11
8. Massachusetts Inst. of Technology	11
8. University of Texas, Austin	11
13. Arizona State University	10
13. University of Florida	10
13. Georgia Institute of Technology	10
16. Florida International University	9
16. New Mexico State University	9
16. University of South Florida	9
19. Colorado State University	8
19. Northwestern University	8
19. Rochester Institute of Technology	8
19. Stanford University	8

333 schools reported.

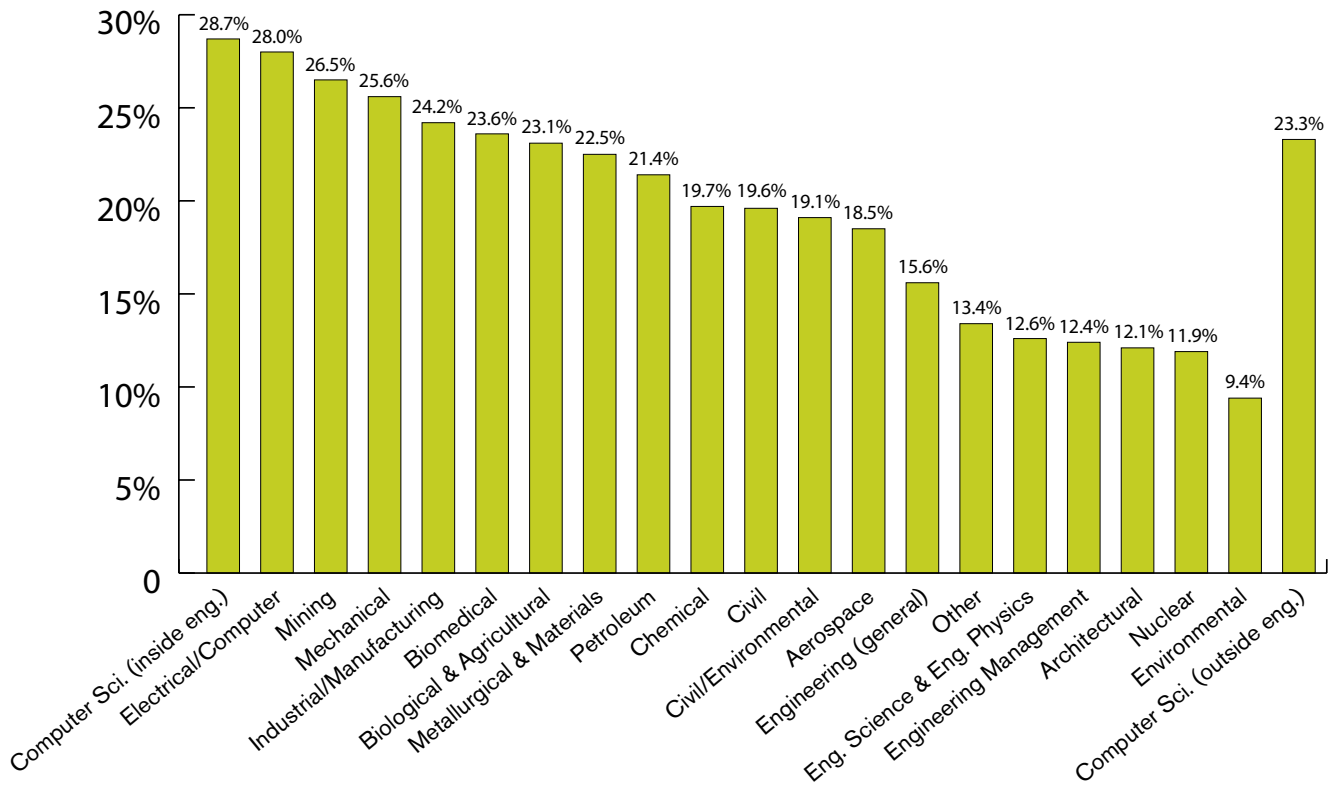
**PERCENTAGE OF AFRICAN-AMERICAN TENURED/TENURE-TRACK FACULTY BY DISCIPLINE: 2.5%**



**PERCENTAGE OF HISPANIC TENURED/TENURE-TRACK FACULTY BY DISCIPLINE: 3.5%**



**PERCENTAGE OF ASIAN-AMERICAN TENURED/TENURE-TRACK FACULTY BY DISCIPLINE: 23.3%**





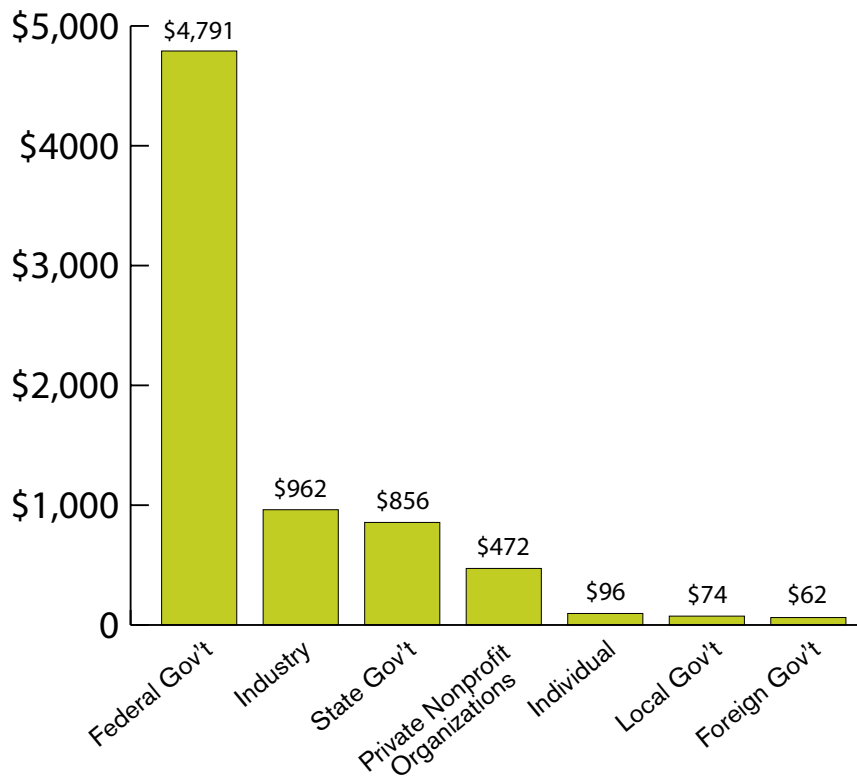
## RESEARCH EXPENDITURES BY SCHOOL

(IN MILLIONS)

1. Massachusetts Inst. of Technology	\$266.3
2. Georgia Institute of Technology	\$257.3
3. Texas A&M University	\$248.4
4. Univ. of Illinois, Urbana-Champaign	\$207.8
5. Stanford University	\$175.8
6. Carnegie Mellon University	\$170.6
7. University of Michigan	\$164.3
8. University of Southern California	\$162.3
9. University of California, Berkeley	\$161.5
10. University of Texas, Austin	\$153.6
11. Univ. of Maryland, College Park	\$148.5
12. Purdue University	\$147.3
13. University of California, San Diego	\$133.4
14. North Carolina State University	\$128.5
15. Ohio State University	\$128.1
16. Pennsylvania State University	\$126.9
17. Cornell University	\$123.0
18. University of Wisconsin, Madison	\$122.0
19. Virginia Tech	\$121.2
20. Northwestern University	\$107.8
21. University of Florida	\$103.9
22. University of Washington	\$96.8
23. University of Minnesota, Twin Cities	\$95.2
24. University of California, Los Angeles	\$93.3
25. University of Dayton	\$91.2
26. University of Rochester	\$87.1
27. University of California, Davis	\$86.3
28. Boston University	\$74.2
29. University of Central Florida	\$71.5
30. Iowa State University	\$70.6
31. Arizona State University	\$70.3
32. California Institute of Technology	\$68.1
33. University of Colorado, Boulder	\$65.1
34. Duke University	\$64.7
35. University of Pittsburgh	\$64.4
36. Johns Hopkins University	\$64.0
37. Princeton University	\$63.3
38. University of Virginia	\$58.6
39. University of California, Irvine	\$57.9
40. Colorado State University	\$57.4
41. University of Utah	\$57.0
42. Mississippi State University	\$55.4
43. SUNY, Buffalo	\$54.8
44. Vanderbilt University	\$54.6
45. Rensselaer Polytechnic Institute	\$52.7
46. Auburn University	\$49.5
47. Rutgers University	\$44.3
48. University of Arizona	\$43.8
48. Harvard University	\$43.8
50. University of Iowa	\$43.6

203 total schools reported.

## RESEARCH EXPENDITURES BY SOURCE IN MILLIONS OF DOLLARS: \$7,313



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

(IN MILLIONS)

1. Carnegie Mellon University	\$83.1
2. University of Texas, Austin	\$20.1
3. University of Wisconsin, Madison	\$18.4
4. Univ. of Massachusetts, Amherst	\$15.3
5. University of Alabama, Huntsville	\$10.8
6. Purdue University	\$10.6
7. University of California, Irvine	\$9.6
8. University of Maryland, College Park	\$5.6
9. Univ. of North Carolina, Charlotte	\$5.4
10. Duke University	\$5.2
11. Rensselaer Polytechnic Institute	\$4.0
12. University of Pittsburgh	\$3.6
13. Rutgers University	\$3.5
14. Dartmouth College	\$3.4
15. University of Houston	\$3.2
15. University of Memphis	\$3.2
17. University of Arizona	\$2.9
17. Northeastern University	\$2.9
19. University of Delaware	\$2.6
20. Worcester Polytechnic Institute	\$2.5

38 schools reported.

\* Schools are not required to report this data to ASEE.

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

1. California State Poly. U., Pomona	7.84
2. Kettering University	7.22
3. California State University, Fresno	6.14
4. San Jose State University	5.83
5. California State University, Chico	5.82
6. Lawrence Technological University	5.77
7. U.S. Naval Academy	5.64
8. California Poly. State U., SLO	5.45
9. Purdue University, Calumet	5.44
10. University of North Florida	5.33
11. Montana State University	5.25
11. San Diego State University	5.25
13. California State Univ., Long Beach	5.11
14. Michigan Technological University	5.07
15. Ohio Northern University	5.00
16. University of Central Florida	4.98
17. Southern Illinois Univ., Edwardsville	4.93
18. Pennsylvania State University, Erie	4.71
19. Brigham Young University	4.64
20. Drexel University	4.61

\* Minimum of 50 degrees awarded  
258 schools fit the criteria for this table.  
Faculty refers to tenured/tenure-track faculty members.

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

1. Yale University	0.91
2. California Institute of Technology	1.24
3. Howard University	1.33
4. Princeton University	1.37
5. University of California, Santa Cruz	1.39
6. Brown University	1.41
7. University of Memphis	1.42
8. University of Rochester	1.51
9. Wayne State University	1.54
10. Mercer University	1.58
11. George Washington University	1.59
12. Stanford University	1.60
13. South Dakota State University	1.65
14. Massachusetts Inst. of Technology	1.70
14. Univ. of Tennessee, Chattanooga	1.70
16. Harvard University	1.77
17. Univ. of California, Santa Barbara	1.80
17. Cleveland State University	1.80
19. William Marsh Rice University	1.81
20. University of Mississippi	1.85

\* Minimum of 50 degrees awarded.  
258 schools fit the criteria for this table.  
Faculty refers to tenured/tenure-track faculty members.

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

1. Mississippi State University	\$2.64
2. University of Rochester	\$2.18
3. University of California, Santa Cruz	\$1.77
4. Carnegie Mellon University	\$1.69
5. University of Alabama, Huntsville	\$1.62
6. Colorado State University	\$1.44
7. University of Pittsburgh	\$1.34
8. Texas A&M University	\$1.31
9. Duke University	\$1.27
10. Boston University	\$1.22
11. West Virginia University	\$1.20
12. University of Kentucky	\$1.17
12. University of Maryland, College Park	\$1.17
14. University of Iowa	\$1.15
15. University of Connecticut	\$1.12
16. Northwestern University	\$1.08
17. University of Central Florida	\$1.07
18. University of California, Riverside	\$1.06
19. University of Minnesota, Twin Cities	\$1.03
19. University of Missouri	\$1.03
19. Oklahoma State University	\$1.03
19. University of Texas, Dallas	\$1.03
23. University of California, San Diego	\$1.01
24. University of Colorado, Boulder	\$1.00
24. FAMU-FSU College of Engineering	\$1.00
24. University of Southern California	\$1.00
27. SUNY, Buffalo	\$0.98
27. University of Wisconsin, Madison	\$0.98
29. Auburn University	\$0.97
29. Vanderbilt University	\$0.97
31. University of Washington	\$0.97
32. Rutgers University	\$0.96
33. City College of the CUNY	\$0.94
34. Harvard University	\$0.93
34. University of Virginia	\$0.93
36. University of Nevada-Reno	\$0.92
37. Cornell University	\$0.90
37. Ohio State University	\$0.90
39. Massachusetts Inst. of Technology	\$0.88
39. University of Nebraska, Lincoln	\$0.88
41. University of California, Davis	\$0.87
41. Kansas State University	\$0.87
41. Northeastern University	\$0.87
44. Missouri Univ. of Science and Tech.	\$0.86
44. Yale University	\$0.86
46. California Institute of Technology	\$0.84
46. New Jersey Institute of Technology	\$0.84
48. University of Texas, Austin	\$0.83
49. North Carolina State University	\$0.82
50. Univ. of Illinois, Urbana-Champaign	\$0.81

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

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

1. Louisiana State University	88.6%
2. Iowa State University	80.9%
3. New Jersey Institute of Technology	79.5%
4. SUNY, Buffalo	78.6%
5. University of Texas, Arlington	78.2%
6. University of California, Riverside	78.1%
7. Texas A&M University	77.4%
8. University of Cincinnati	76.9%
8. Ohio State University	76.9%
10. Michigan State University	75.0%
11. SUNY, Binghamton	74.3%
12. Stevens Institute of Technology	72.4%
13. Illinois Institute of Technology	72.2%
14. University of Connecticut	71.4%
15. Stony Brook University	71.0%
16. University of Arkansas	70.4%
17. University of Houston	70.3%
18. Purdue University	70.2%
19. Missouri Univ. of Science and Tech.	69.7%
20. University of Illinois, Chicago	68.8%

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

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

1. Colorado School of Mines	20.0%
2. University of Colorado, Boulder	30.8%
3. University of Nebraska, Lincoln	35.3%
4. University of California, San Diego	36.4%
5. University of California, Berkeley	38.1%
6. William Marsh Rice University	38.2%
7. University of Washington	40.0%
8. University of Pennsylvania	41.9%
9. Texas Tech University	42.4%
10. George Washington University	42.6%
11. Michigan Technological University	43.8%
12. Johns Hopkins University	44.4%
13. Northwestern University	45.0%
13. Massachusetts Inst. of Technology	45.0%
15. Vanderbilt University	46.4%
16. University of California, Davis	46.5%
17. University of Utah	46.6%
18. Harvard University	46.8%
19. University of Notre Dame	47.8%
19. Princeton University	47.8%

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

## BACHELOR'S DEGREES BY DISCIPLINE 2000-2009

Bachelor's Degrees	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Aerospace	1,296	1,558	1,711	2,011	2,232	2,371	2,722	2,788	2,930	3,057
Architectural	559	554	513	627	590	722	631	625	646	723
Biological/Agricultural	583	549	556	603	601	635	646	659	623	631
Biomedical	1,156	1,138	1,315	1,628	2,019	2,410	2,917	2,969	3,237	3,644
Chemical	6,023	5,740	5,529	5,233	4,801	4,521	4,452	4,551	4,850	5,185
Civil	8,653	8,027	8,066	8,192	8,142	8,247	8,935	9,402	10,132	10,508
Civil/Environmental <sup>1</sup>	—	—	—	—	—	212	291	445	464	558
Computer	3,972	4,519	4,720	5,746	5,838	5,455	4,901	4,046	3,808	3,394
Computer Science (inside eng.)	5,510	6,062	6,842	8,649	9,156	8,419	7,330	6,446	5,964	5,652
Electrical	11,211	11,096	11,402	11,994	12,500	12,459	11,915	11,467	10,790	9,859
Electrical/Computer	2,126	2,444	2,597	2,782	2,700	2,924	2,825	2,425	2,216	2,194
Engineering (general)	944	992	1,069	1,105	1,138	1,179	1,176	1,246	1,160	1,246
Engineering Management	186	187	227	296	302	303	238	274	331	309
Eng. Science & Eng. Physics	535	475	489	451	501	383	431	460	472	431
Environmental	588	510	465	516	576	522	437	454	486	503
Industrial/Manufacturing	3,555	3,474	3,575	3,769	3,790	3,647	3,664	3,503	3,367	3,510
Mechanical	12,992	12,921	13,247	13,801	14,182	14,947	16,063	16,701	17,324	17,375
Metallurgical & Materials	904	791	838	859	817	840	909	963	1,095	1,035
Mining	164	150	112	96	85	92	120	119	153	190
Nuclear	134	118	145	135	202	275	342	402	415	378
Other	2,478	2,627	3,106	2,422	2,488	2,724	2,902	2,942	3,211	3,351
Petroleum	251	268	257	250	233	315	339	428	496	654
<b>TOTAL</b>	<b>63,820</b>	<b>64,200</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>

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

## ENROLLMENT BY CLASS 2000-2009

UNDERGRAD ENROLLMENT	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Freshmen	90,141	96,962	98,353	97,706	97,514	95,961	102,125	106,110	110,543	113,588
Sophomores	73,798	76,571	78,107	80,768	80,083	78,317	79,883	83,753	88,227	94,111
Juniors	76,655	78,566	78,619	80,931	80,511	78,232	79,244	80,647	86,835	92,758
Seniors	101,541	106,972	113,501	117,298	117,988	114,741	112,950	115,180	117,586	127,046
<b>TOTAL FULL TIME</b>	<b>342,135</b>	<b>359,071</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>TOTAL PART TIME</b>	<b>32,289</b>	<b>32,273</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>

**MASTER'S DEGREES BY DISCIPLINE 2000-2009**

<b>MASTERS DEGREES</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>
Aerospace	705	633	735	720	915	1,043	1,094	1,056	1,096	1,075
Architectural	115	119	98	111	160	164	112	116	119	121
Biological/Agricultural	194	143	150	139	191	173	182	149	155	171
Biomedical	476	526	652	762	862	1,007	1,326	1,156	1,221	1,396
Chemical	1,161	1,133	1,054	1,136	1,321	1,404	1,204	1,036	1,051	1,084
Civil	3,530	3,399	3,410	3,638	3,745	3,875	3,835	3,368	3,437	3,659
Civil/Environmental <sup>1</sup>	—	—	—	—	—	78	109	178	223	249
Computer	1,329	1,717	1,485	1,800	1,735	1,557	1,510	1,479	1,662	1,880
Computer Science (inside eng.)	3,573	3,845	4,096	5,163	5,797	5,735	5,197	4,913	4,924	5,373
Electrical	3,699	3,528	3,597	4,419	5,656	5,615	5,256	5,026	5,735	6,137
Electrical/Computer	3,293	3,556	3,348	3,653	4,393	4,243	3,753	3,532	3,757	3,682
Engineering (general)	350	426	377	607	642	539	671	602	612	729
Engineering Management	1,101	1,145	1,352	1,663	1,764	1,818	1,817	2,114	2,036	2,240
Eng. Science & Eng. Physics	409	372	417	344	315	282	315	205	194	170
Environmental	572	557	517	488	579	635	571	552	524	552
Industrial/Manufacturing	2,455	2,475	2,502	2,766	3,262	3,138	2,663	2,565	2,669	2,986
Mechanical	3,399	3,594	3,566	3,680	4,461	4,767	4,631	4,485	4,647	4,757
Metallurgical & Materials	735	605	568	642	737	743	702	702	715	771
Mining	23	39	34	27	46	38	48	49	54	51
Nuclear	150	161	141	212	197	181	246	255	268	264
Other	2,738	2,497	2,809	3,026	2,826	3,259	3,532	3,232	3,655	4,063
Petroleum	153	199	181	200	233	256	241	213	232	222
<b>TOTAL</b>	<b>30,160</b>	<b>30,669</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>

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

## DOCTORAL DEGREES BY DISCIPLINE 2000-2009

DOCTORAL DEGREES	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Aerospace	214	216	211	197	210	259	244	259	252	276
Architectural	2	2	4	2	7	6	2	8	11	7
Biological/Agricultural	66	72	68	69	90	68	66	65	88	80
Biomedical	203	219	213	240	339	333	436	536	662	722
Chemical	653	645	632	592	655	805	834	898	888	836
Civil	529	574	628	618	644	725	767	770	706	707
Civil/Environmental <sup>1</sup>	—	—	—	—	—	20	29	51	100	87
Computer	69	80	76	95	125	115	191	193	216	230
Computer Science (inside eng.)	399	381	350	410	494	606	761	867	847	863
Electrical	767	691	627	644	720	834	939	1,064	1,006	959
Electrical/Computer	792	840	776	761	901	938	1,112	1,234	1,169	1,055
Engineering (general)	31	36	32	47	44	46	75	56	64	65
Engineering Management	28	32	26	30	40	35	39	37	35	44
Eng. Science & Eng. Physics	120	132	100	102	109	111	131	143	133	150
Environmental	77	57	83	89	124	112	129	133	138	143
Industrial/Manufacturing	234	231	274	275	306	302	348	398	401	381
Mechanical	838	858	796	792	855	964	1,132	1,161	1,140	1,216
Metallurgical & Materials	392	408	342	388	442	464	519	584	617	598
Mining	11	11	11	12	7	11	16	15	13	12
Nuclear	95	84	64	81	61	76	81	88	103	87
Other	443	443	429	398	403	457	460	447	447	511
Petroleum	36	32	30	28	28	46	40	48	50	54
<b>TOTAL</b>	<b>5,999</b>	<b>6,044</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>

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

## UNDERGRADUATE ENROLLMENT BY DISCIPLINE 2000-2009

UNDERGRAD ENROLLMENT	2000		2001		2002		2003		2004
	Full Time	Part Time	Full Time	Part Time	Full Time	Part Time	Full Time	Part Time	Full Time
Aerospace	8,422	420	9,410	346	9,386	386	10,834	476	11,436
Architectural	2,360	97	2,404	110	2,537	102	2,793	126	2,878
Biological/Agricultural	2,375	76	2,503	56	2,816	58	2,878	68	2,629
Biomedical	6,262	78	7,093	72	9,178	146	10,716	230	12,566
Chemical	25,118	1,655	23,534	1,392	22,641	1,328	21,926	1,310	22,088
Civil	37,310	3,750	37,449	3,769	39,031	3,451	41,442	3,911	43,590
Civil/Environmental <sup>1</sup>	—	—	—	—	—	—	—	—	—
Computer Science (inside eng.)	30,063	3,349	33,695	3,778	32,668	4,077	35,448	4,400	31,646
Electrical/Computer	98,578	12,370	102,943	12,173	102,983	11,158	99,658	11,525	91,366
Engineering (general)	6,037	422	7,520	547	7,864	413	7,607	536	7,052
Engineering Management	543	56	595	52	663	65	921	62	911
Eng. Science & Eng. Physics	1,584	73	1,761	57	2,310	88	2,246	48	2,332
Environmental	740	49	729	51	734	56	850	77	793
Industrial/Manufacturing	12,377	1,015	13,076	1,053	13,376	1,116	13,621	1,122	13,573
Mechanical	64,005	6,843	66,608	6,880	71,902	6,345	76,482	7,255	80,863
Metallurgical & Materials	3,268	125	3,063	117	3,087	126	3,181	110	3,215
Mining	502	37	482	36	456	47	450	20	566
Nuclear	709	20	845	28	960	39	1,259	42	1,371
Other	40,613	1,809	44,061	1,702	44,497	1,576	42,760	2,045	45,393
Petroleum	1,269	45	1,300	54	1,491	72	1,631	51	1,828
<b>TOTAL</b>	<b>342,135</b>	<b>32,289</b>	<b>359,071</b>	<b>32,273</b>	<b>368,580</b>	<b>30,649</b>	<b>376,703</b>	<b>33,414</b>	<b>376,096</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 1999-2004 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.

2004	2005		2006		2007		2008		2009	
Part Time	Full Time	Part Time	Full Time	Part Time	Full Time	Part Time	Full Time	Part Time	Full Time	Part Time
476	15,882	588	15,945	654	16,551	633	17,561	664	18,108	601
126	4,392	134	3,986	187	4,205	199	4,033	130	3,618	179
68	2,978	72	3,038	68	3,103	103	3,191	78	3,778	96
230	14,213	464	15,411	481	16,153	518	17,798	519	19,558	504
1,310	21,727	1,323	23,455	1,269	25,852	1,431	28,636	1,326	32,050	1,476
3,911	42,007	3,448	44,389	3,783	47,296	3,709	50,167	4,430	53,436	4,784
—	1,264	185	1,790	245	2,437	259	2,546	247	2,929	235
4,400	27,577	4,678	27,062	4,355	27,348	4,202	27,766	4,081	29,959	4,092
11,525	79,883	8,977	75,302	8,979	72,353	8,389	73,343	8,158	75,061	7,952
536	16,140	680	18,139	526	21,944	1,039	22,856	1,186	22,903	1,226
62	1,239	37	1,014	35	1,034	31	1,224	23	1,036	24
48	3,161	486	3,533	525	2,510	105	2,643	99	2,497	84
77	2,007	112	2,270	128	2,761	171	3,180	308	4,027	338
1,122	13,065	1,170	12,970	1,054	12,921	1,019	13,476	1,184	14,224	1,033
7,255	78,202	6,636	80,288	6,786	82,246	6,843	85,249	7,089	91,856	7,082
110	3,577	175	3,862	184	4,019	210	4,312	164	4,520	146
20	626	26	764	37	836	51	881	51	974	68
42	1,562	61	1,667	75	1,771	64	1,832	41	2,207	60
2,045	35,943	1,865	36,503	1,877	36,955	1,897	38,468	1,922	40,536	1,912
51	2,131	95	2,814	83	3,395	98	4,029	128	4,226	193
<b>33,414</b>	<b>367,576</b>	<b>31,212</b>	<b>374,202</b>	<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>

## MASTER'S ENROLLMENT BY DISCIPLINE 2000-2009

MASTER'S ENROLLMENT	2000	2001	2002	2003	2004	2005		
	Total	Total	Total	Total	Total	Full Time	Part Time	Total
Aerospace	1,755	1,741	1,631	1,984	2,162	1,853	575	2,428
Architectural	218	172	204	221	250	256	32	288
Biological/Agricultural	360	358	370	421	369	338	61	399
Biomedical	1,218	1,361	1,718	2,029	2,314	1,701	612	2,313
Chemical	2,865	2,729	2,958	2,854	2,746	1,527	801	2,328
Civil	8,649	8,721	9,180	9,435	9,298	4,955	2,599	7,554
Civil/Environmental <sup>1</sup>	—	—	—	—	—	92	119	211
Computer Science (inside eng.)	8,257	9,741	10,815	12,132	10,897	6,040	4,933	10,973
Electrical/Computer	22,510	24,443	28,125	28,420	26,049	13,799	8,995	22,794
Engineering (general)	303	713	1,008	1,132	1,209	669	1,067	1,736
Engineering Management	2,340	1,926	2,367	2,299	2,984	1,384	2,826	4,210
Eng. Science & Eng. Physics	834	413	493	499	364	210	167	377
Environmental	388	378	452	739	584	852	445	1,297
Industrial/Manufacturing	6,100	6,418	7,120	6,874	6,068	3,608	2,105	5,713
Mechanical	10,069	10,726	11,990	12,340	11,666	6,658	3,564	10,222
Metallurgical & Materials	1,394	1,270	1,229	1,109	1,027	920	293	1,213
Mining	114	107	110	110	112	82	30	112
Nuclear	299	307	284	312	310	379	96	475
Other	7,307	7,043	8,923	8,266	9,012	3,089	4,400	7,489
Petroleum	388	380	465	489	493	387	128	515
<b>TOTAL</b>	<b>75,368</b>	<b>78,947</b>	<b>89,442</b>	<b>91,665</b>	<b>87,914</b>	<b>48,799</b>	<b>33,848</b>	<b>82,647</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 1999-2004 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		
Full Time	Part Time	Total	Full Time	Part Time	Total	Full Time	Part Time	Total	Full Time	Part Time	Total
1,758	627	2,385	1,893	600	2,493	1,996	672	2,668	2,125	849	2,974
104	40	144	100	27	127	107	30	137	139	21	160
309	55	364	343	48	391	395	59	454	438	48	486
1,795	595	2,390	1,781	674	2,455	1,890	678	2,568	1,911	693	2,604
1,285	678	1,963	1,391	682	2,073	1,507	648	2,155	1,538	696	2,234
5,067	2,432	7,499	5,193	2,637	7,830	5,297	2,882	8,179	6,326	3,130	9,456
127	125	252	280	166	446	421	165	586	479	165	644
6,240	4,595	10,835	7,311	4,397	11,708	7,161	4,507	11,668	7,274	4,675	11,949
14,950	8,731	23,681	17,013	8,919	25,932	17,041	8,925	25,966	17,664	9,346	27,010
698	1,012	1,710	812	937	1,749	798	1,232	2,030	799	1,073	1,872
1,390	3,235	4,625	1,755	3,330	5,085	2,172	3,051	5,223	2,430	3,397	5,827
193	134	327	192	96	288	195	106	301	215	94	309
767	507	1,274	718	451	1,169	787	481	1,268	990	514	1,504
3,542	1,963	5,505	4,033	1,781	5,814	4,195	2,127	6,322	4,272	2,312	6,584
6,762	3,529	10,291	7,352	3,678	11,030	7,857	3,735	11,592	8,511	4,220	12,731
904	303	1,207	965	325	1,290	1,019	357	1,376	1,144	360	1,504
72	43	115	83	40	123	93	29	122	90	36	126
422	100	522	443	156	599	449	152	601	460	176	636
3,421	4,369	7,790	3,629	4,757	8,386	4,104	4,780	8,884	4,409	5,518	9,927
362	194	556	429	156	585	532	183	715	634	211	845
<b>50,168</b>	<b>33,267</b>	<b>83,435</b>	<b>55,716</b>	<b>33,857</b>	<b>89,573</b>	<b>58,016</b>	<b>34,799</b>	<b>92,815</b>	<b>61,848</b>	<b>37,534</b>	<b>99,382</b>

## DOCTORAL ENROLLMENT BY DISCIPLINE 2000-2009

DOCTORAL ENROLLMENT	2000	2001	2002	2003	2004	2005		
	Total	Total	Total	Total	Total	Full Time	Part Time	Total
Aerospace	1,175	1,200	1,206	1,321	1,459	1,605	192	1,797
Architectural	45	57	61	65	65	42	2	44
Biological/Agricultural	352	350	373	412	400	411	50	461
Biomedical	1,643	1,949	2,348	2,903	3,546	3,597	339	3,936
Chemical	3,853	3,992	4,620	5,044	5,185	4,659	336	4,995
Civil	3,929	4,134	4,543	4,666	4,971	3,847	701	4,548
Civil/Environmental <sup>1</sup>	—	—	—	—	—	49	87	136
Computer Science (inside eng.)	2,779	3,264	3,941	4,835	5,174	5,313	1,093	6,406
Electrical/Computer	11,562	12,070	13,694	15,419	16,074	13,304	2,168	15,472
Engineering (general)	159	168	176	280	342	272	69	341
Engineering Management	213	299	477	342	487	136	178	314
Eng. Science & Eng. Physics	634	702	746	872	902	974	62	1,036
Environmental	196	270	293	472	416	771	104	875
Industrial/Manufacturing	1,787	1,850	2,050	2,246	2,427	2,046	500	2,546
Mechanical	5,471	5,584	6,212	7,117	7,295	5,896	881	6,777
Metallurgical & Materials	2,083	2,235	2,425	2,690	2,831	3,060	221	3,281
Mining	69	62	63	69	89	80	13	93
Nuclear	398	418	409	453	464	529	51	580
Other	2,927	2,683	3,441	3,200	3,664	2,573	628	3,201
Petroleum	192	159	185	198	210	209	29	238
<b>TOTAL</b>	<b>39,467</b>	<b>41,446</b>	<b>47,263</b>	<b>52,604</b>	<b>56,001</b>	<b>49,373</b>	<b>7,704</b>	<b>57,077</b>

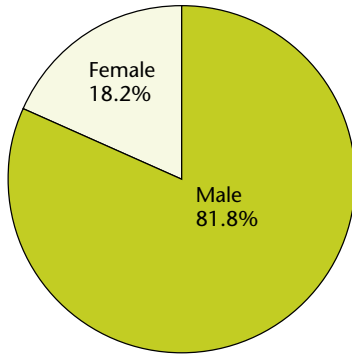
<sup>1</sup> New discipline added in 2005

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 1999-2004 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.

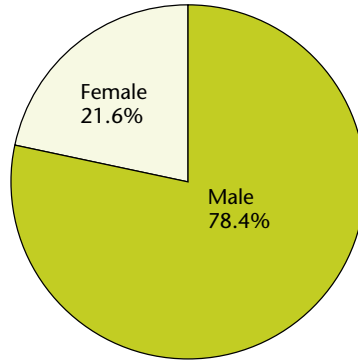
2006			2007			2008			2009		
Full Time	Part Time	Total	Full Time	Part Time	Total	Full Time	Part Time	Total	Full Time	Part Time	Total
1,574	206	1,780	1,462	195	1,657	1,520	183	1,703	1,711	202	1,913
24	1	25	20	7	27	34	2	36	49	4	53
459	48	507	476	48	524	526	63	589	591	64	655
4,054	357	4,411	4,305	363	4,668	4,518	376	4,894	4,863	426	5,289
4,692	333	5,025	4,684	296	4,980	4,865	289	5,154	5,142	333	5,475
3,837	546	4,383	3,704	615	4,319	3,587	592	4,179	3,961	664	4,625
133	97	230	262	115	377	375	122	497	383	126	509
5,452	894	6,346	5,367	940	6,307	5,527	781	6,308	5,855	906	6,761
13,360	1,943	15,303	13,435	1,996	15,431	13,519	1,862	15,381	14,506	1,934	16,440
399	173	572	380	119	499	370	150	520	413	158	571
88	152	240	102	159	261	95	162	257	112	225	337
894	72	966	880	57	937	926	55	981	896	66	962
649	120	769	771	100	871	706	122	828	779	105	884
2,046	475	2,521	1,940	509	2,449	1,965	467	2,432	2,253	504	2,757
6,129	853	6,982	6,070	867	6,937	6,454	819	7,273	7,183	893	8,076
3,035	267	3,302	3,384	236	3,620	3,419	248	3,667	3,597	218	3,815
51	20	71	78	27	105	64	13	77	71	12	83
538	51	589	598	49	647	623	44	667	660	45	705
2,540	788	3,328	2,764	670	3,434	2,982	656	3,638	3,058	641	3,699
171	40	211	221	47	268	289	80	369	364	40	404
<b>50,125</b>	<b>7,436</b>	<b>57,561</b>	<b>50,903</b>	<b>7,415</b>	<b>58,318</b>	<b>52,364</b>	<b>7,086</b>	<b>59,450</b>	<b>56,447</b>	<b>7,566</b>	<b>64,013</b>

## ENROLLMENT BY GENDER

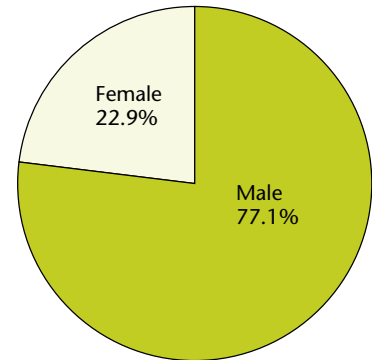
**BACHELOR'S**



**MASTER'S**

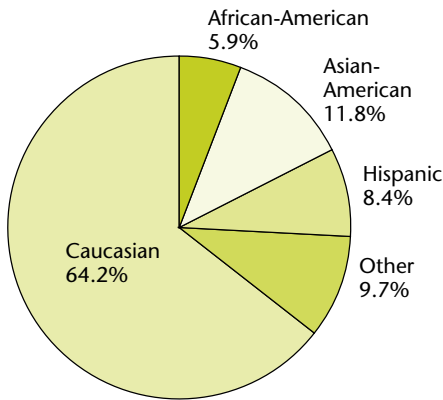


**DOCTORAL**

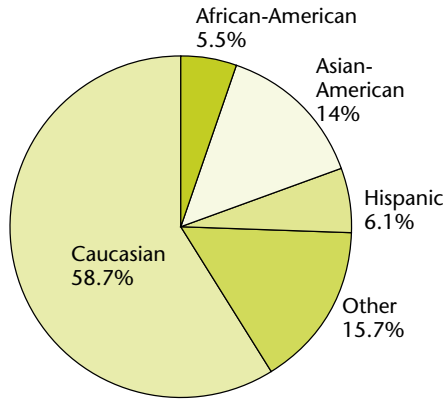


## ENROLLMENT BY ETHNICITY\*

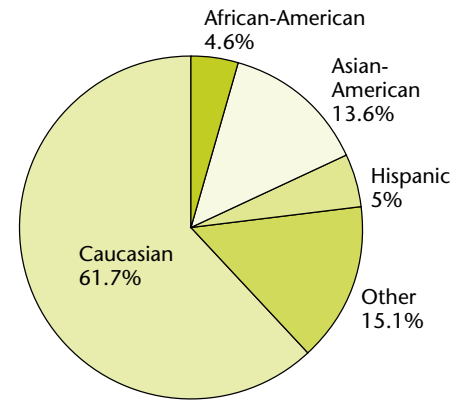
**BACHELOR'S**



**MASTER'S**



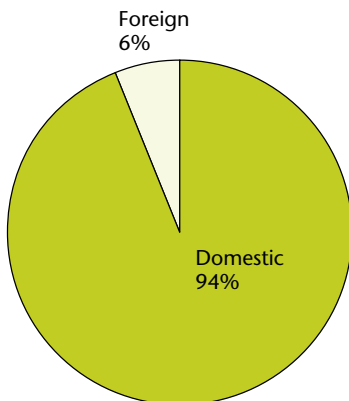
**DOCTORAL**



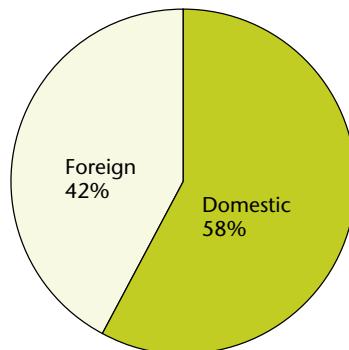
\* Calculations for enrollment by ethnicity do not include schools in Puerto Rico or foreign nationals. The percentage of Hispanic enrollees is BS: 10%, MS: 7.2%, PhD: 5.2% if the two schools in Puerto Rico are included.

## ENROLLMENT BY RESIDENCY

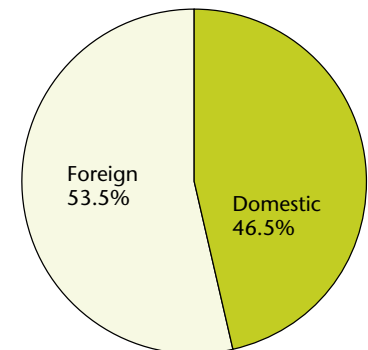
**BACHELOR'S**



**MASTER'S**



**DOCTORAL**



**BACHELOR'S TOTAL\***  
**427,503**

**MASTER'S TOTAL**  
**99,382**

**DOCTORAL TOTAL**  
**64,013**

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