

ENGINEERING BY THE NUMBERS

BY BRIAN L. YODER, PH.D.

A NOTE ON DATA IN THE 2016 PROFILES:

In a change from previous issues of *Profiles*, ASEE has decided to omit data from schools that have not participated in our survey for more than two years. In the past, we carried forward data from prior years for non-participating schools so as to maintain a consistent benchmark. As a result of our tightened inclusion requirements, tabulations in this issue of *Profiles* exclude data from 50 colleges. This difference accounts for totals that are noticeably lower than in the 2015 *Profiles*: 13,000 fewer undergraduate engineering students, awards of 2,000 fewer bachelor's degrees, and a decrease in master's-level enrollment. Schools excluded from tabulations were mostly smaller institutions, many with undergraduate engineering programs only.

Despite the lower totals, which reflect current data from participating schools, ASEE's survey results show substantial growth in engineering schools over the past 10 years. Recent enrollment numbers, however, suggest that engineering may be now entering a period of slower growth.

BACHELOR'S DEGREES AND ENROLLMENT

The number of students awarded bachelor's degrees in engineering rose by 6 percent from 2015 to 2016, slightly above the average 5.4 percent annual increase in bachelor's degrees in engineering since 2007. Engineering Science and Engineering Physics, and Computer Science (inside Engineering) had the largest percentage increases in 2016 over the previous year: 24 percent and 23 percent, respectively. Electrical/Computer Engineering and Mining Engineering had the largest percentage decline from 2015 to 2016, a decrease of 17 percent and a decrease of 8 percent, respectively.

Enrollment trends indicate that the number of bachelor's degrees may not continue to grow at its recent pace. Growth in undergraduate engineering enrollment is slowing after more than a decade of strong annual increases. Our benchmark in 2016 shows a decrease from 2015 of 10,026 full-time and part-time students enrolled in an undergraduate engineering program. That number takes into account the exclusion of non-participating schools, which resulted in 13,000 fewer enrolled engineering students. If the excluded schools' data from previous years had been included in the latest totals, our benchmark would show a slight increase in 2016 over 2015, but a lower rate of growth than the annual average for the past 10 years. Based on this year's benchmark, undergraduate engineering enrollment has grown by 57 percent since 2007, an average increase of 5.7 percent per year. Civil Engineering/Environmental Engineering and Computer Science (inside Engineering) had the largest percentage increase in 2016

over the previous year, with both showing an 11 percent gain. Petroleum Engineering and Mining Engineering had the largest percentage drop in enrollment, showing a decrease of 22 percent and 23 percent, respectively.

MASTER'S DEGREES AND ENROLLMENT

Master's degrees awarded in 2016 increased by 9 percent over 2015, reflecting a higher growth rate than the 6.9 percent average annual increase in degrees awarded since 2007. Engineering disciplines with the largest percentage increase in degrees awarded included Civil/Environmental Engineering, which granted 24 percent more degrees in 2016 than in 2015, and Computer Science (inside Engineering) which granted 20 percent more degrees in 2016 over the previous year.

As with bachelor's degrees, the trend of strong growth in master's degrees is unlikely to continue in coming years. Enrollment in engineering master's degree programs decreased by 3 percent from 2015 to 2016 to 127,159. Enrollment in master's degree programs has increased by 42 percent since 2007, or 4.2 percent per year, on average.

DOCTORAL DEGREES AND ENROLLMENT

Engineering doctoral degrees decreased slightly from 2015 to 2016 – less than 1 percent – breaking a trend that saw the award of doctorates increase by an average of 2.9 percent a year over the previous decade. The engineering disciplines with the largest percentage drop in doctoral degrees included Petroleum Engineering, which fell 18 percent, and Electrical/Computer Engineering, which declined by 10 percent.

Enrollment in doctoral programs flattened, increasing by 1 percent from 2015 to 2016, following a 31 percent growth 2007, or an average 3.1 percent per year. Civil/Environmental Engineering and Engineering (General) showed the largest percentage increases in doctoral enrollment of 30 percent and 19 percent, respectively, from 2015 to 2016.

ENGINEERING STUDENTS FROM OTHER COUNTRIES

Engineering degrees earned by students from outside the United States increased from 2015 to 2016. The proportion of bachelor's degrees earned by non-resident aliens increased from 9.1 percent to 9.6 percent, reaching a new high mark for this cohort. After dropping in 2008 and 2009 to a low of 6.0 percent, the proportion of bachelor's degrees awarded to non-resident aliens has increased every year since. The proportion of master's degrees awarded to non-resident aliens increased by more than 11 percent, from 47.0 percent in 2015

to 58.1 percent in 2016. Since 2007, when non-resident aliens accounted for 38.7 of master's degrees, their representation has increased nearly 20 percent. Students from outside the United States accounted for 54.8 percent of doctoral degrees awarded in 2016, maintaining a rate that has been consistent since 2008.

FEMALE ENGINEERING STUDENTS

Female engineering students continued their slow increase as a percentage of engineering degrees awarded at all degree levels: bachelor's, master's, and doctoral. The proportion of women among students receiving a bachelor's degree increased by one percent in 2016 over the previous year, to 20.9 percent. The representation of women among bachelor's degree recipients has risen from 18.1 percent in 2007 to 20.9 percent in 2016. The highest proportion of degrees awarded to women in 2016 was at the master's level—25.4 percent. This represented a slight percent increase over 2015 and a three percent increase since 2007. The representation of females among doctoral degree recipients also increased slightly – from 23.1 percent in 2015 to 23.3 percent in 2016. The proportion of women among doctoral degree recipients has increased 2.5 percent from since 2007, when they made up 20.8 percent of that cohort.

FACULTY

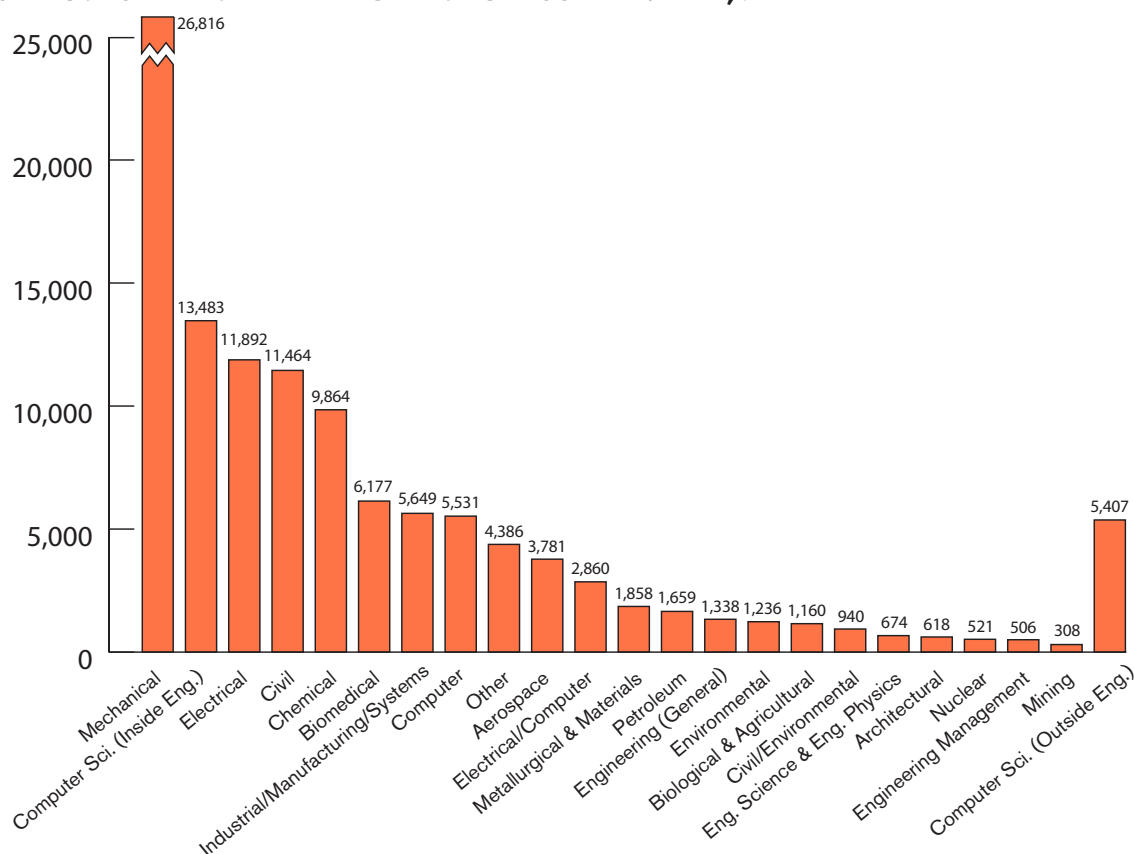
The number of tenured and tenure-track faculty increased to 27,907 in 2016. The number of full professors and assistant professors increased by 538 and 710, respectively, while the number of associate professors decreased by 180 from the fall of 2015 to the fall of 2016. The percentage of faculty members who are women increased by half a percent from 2015 to 16.3 percent in 2016. The representation of African Americans decreased slightly to 2.3 percent in 2016, while that of Asian faculty increased to 27.5 percent and that of Latinos rose to 3.6 percent.

More detailed data for 351 U.S. and 9 Canadian engineering colleges can be found in the following pages of the 2016 *Profiles of Engineering and Engineering Technology Colleges* or online at www.asee.org/colleges.

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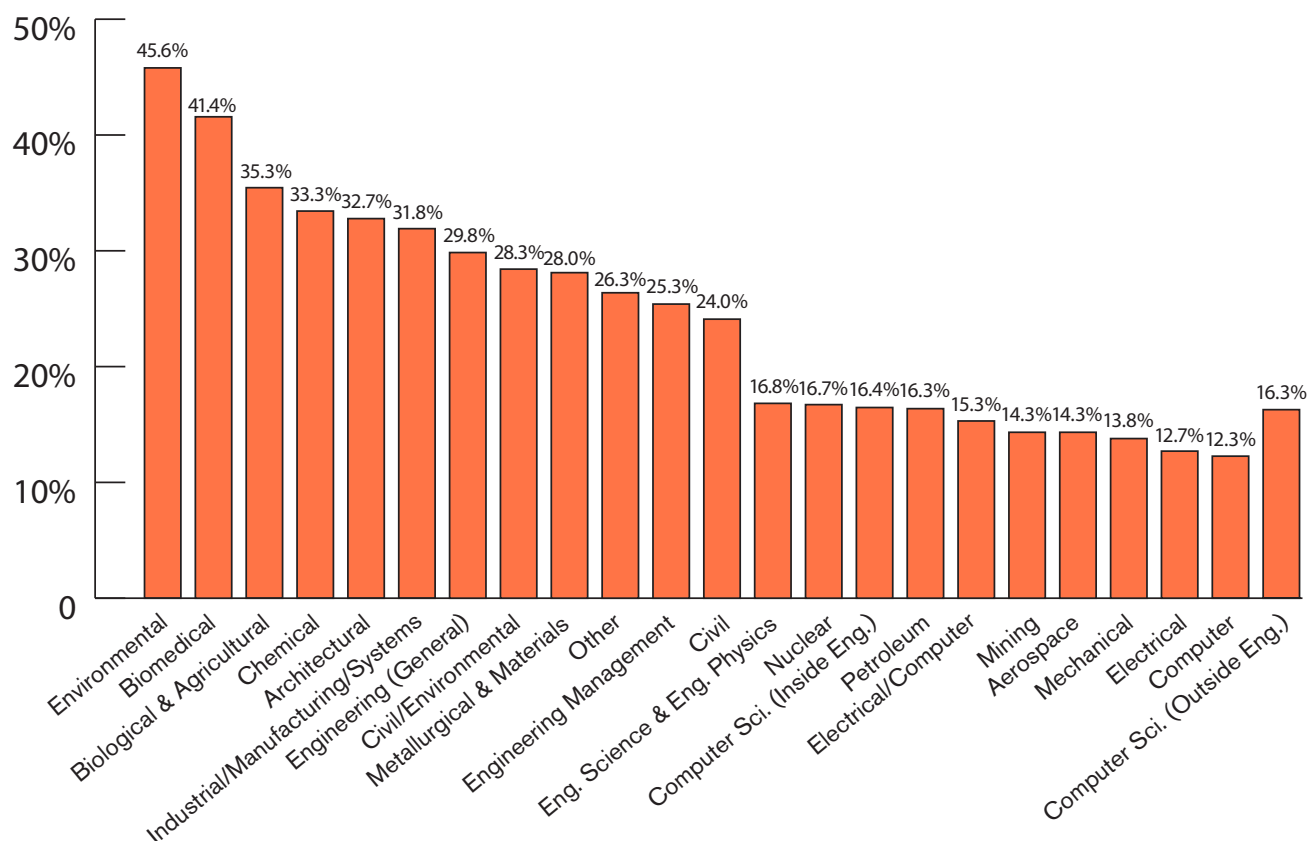
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BACHELOR'S DEGREES AWARDED BY ENGINEERING DISCIPLINE: 112,721*



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

PERCENTAGE OF BACHELOR'S DEGREES AWARDED TO WOMEN BY DISCIPLINE: 20.8% OF TOTAL

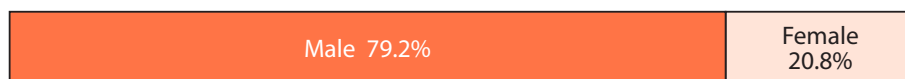


ENGINEERING BACHELOR'S DEGREES AWARDED BY SCHOOL

1. Georgia Institute of Technology	2,140
2. Univ. of Illinois, Urbana-Champaign	2,111
3. Pennsylvania State University	1,797
4. Virginia Tech	1,635
5. University of Michigan	1,583
6. Texas A&M University	1,559
7. Arizona State University	1,554
8. Purdue University	1,547
9. University of California, San Diego	1,541
10. The Ohio State University	1,496
11. North Carolina State University	1,489
12. University of Central Florida	1,356
13. Iowa State University	1,315
14. University of California, Berkeley	1,273
15. The University of Texas at Austin	1,207
16. University of Florida	1,182
17. California Polytechnic State University	1,178
18. Missouri Univ. of Science and Tech.	1,055
19. Oregon State University	1,053
20. University of Maryland, College Park	1,011
21. University of Minnesota -Twin Cities	1,000
22. University of Washington	988
23. Colorado School of Mines	966
24. Clemson University	940
25. SUNY, Buffalo	873
26. Drexel University	865
27. Cornell University	864
28. Florida International University	843
29. Stony Brook University	841
30. Rutgers University	839
31. University of Wisconsin-Madison	826
32. Louisiana State University	824
33. Michigan State University	813
34. University of California, Davis	810
35. University of Colorado Boulder	796
36. Massachusetts Institute of Technology	786
37. Auburn University	775
38. Rensselaer Polytechnic Institute	762
39. California State Poly. U., Pomona	749
40. California State University, Long Beach	734
41. University of Southern California	731
42. Texas Tech University	730
43. Washington State University	721
44. The University of Alabama	720
44. University of California, Los Angeles	720
46. George Mason University	705
47. Stanford University	701
48. University of Missouri	693
49. University of California, Irvine	690
50. West Virginia University	688

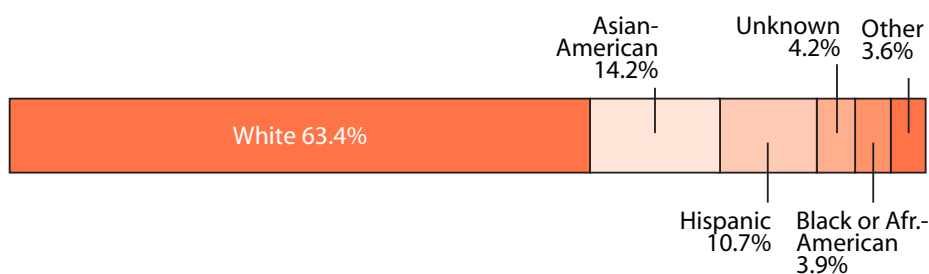
300 schools reported.

BACHELOR'S DEGREES BY GENDER, 2016



	2007	2008	2009	2010	2011	2012	2013	2014	2015
Female	18.1%	18.0%	17.8%	18.1%	18.4%	18.9%	19.1%	19.9%	19.9%
Male	81.9%	82.0%	82.2%	81.9%	81.6%	81.1%	80.9%	80.1%	80.1%

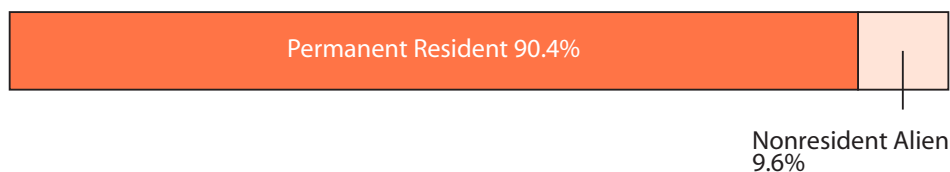
BACHELOR'S DEGREES BY ETHNICITY, 2016*



	2007	2008	2009	2010	2011	2012	2013	2014	2015
Black or African-American	4.9%	4.7%	4.6%	4.5%	4.2%	4.2%	4.3%	3.50%	4.0%
Hispanic	6.2%	6.5%	6.6%	7.0%	8.5%	9.0%	9.3%	10.1%	10.7%
Other	8.3%	8.9%	11.0%	1.2%	1.6%	2.0%	2.3%	2.9%	3.1%
Asian American	13.3%	13.0%	12.4%	12.2%	12.2%	12.2%	12.9%	13.1%	13.4%
White	67.3%	66.9%	65.4%	69.8%	66.6%	66.2%	65.7%	65.9%	64.9%
Unknown				5.3%	6.9%	6.5%	5.6%	4.5%	3.9%

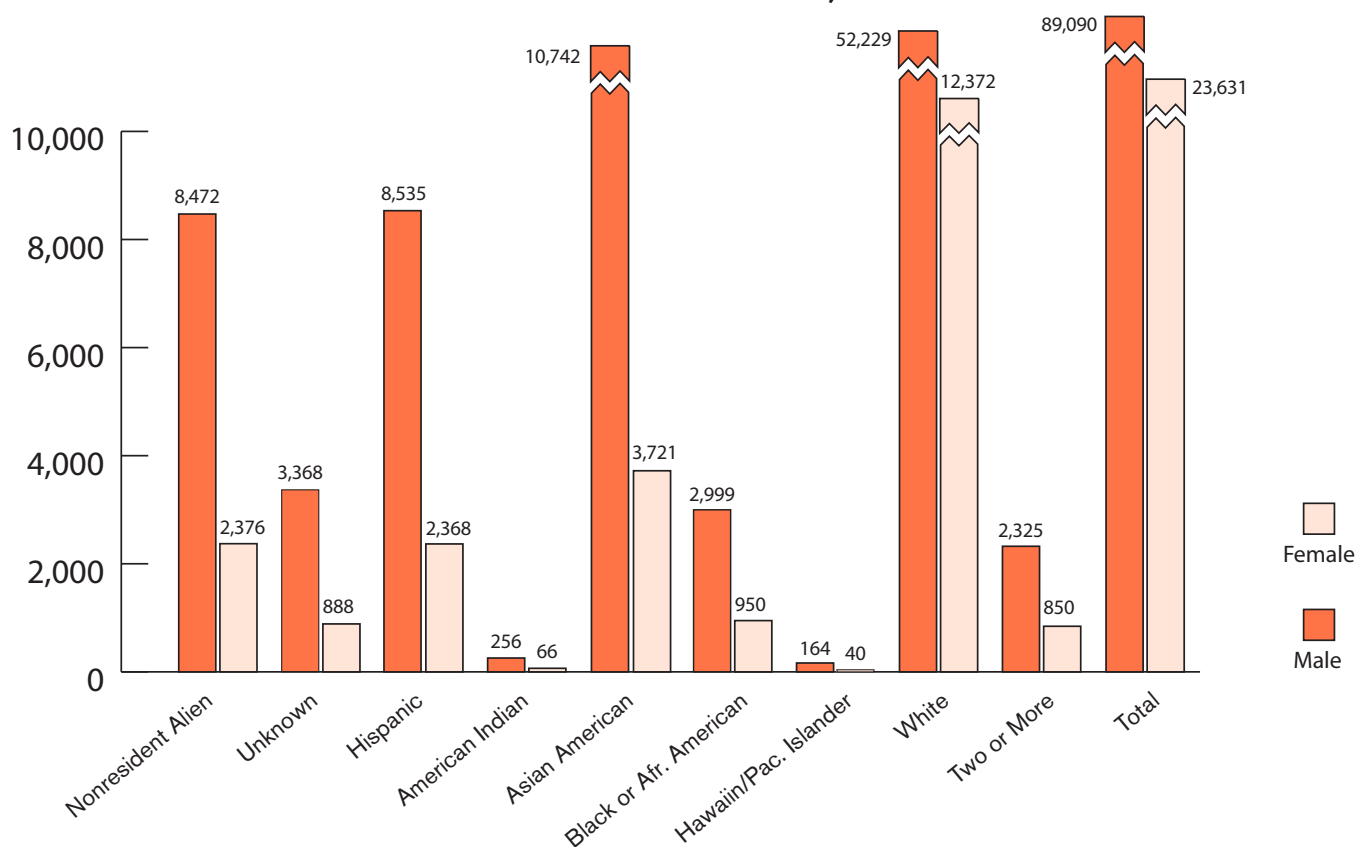
*Data on ethnicity does not include foreign nationals. American Indians (0.3%), Hawaiian/Pacific Islanders (0.2%) and Two or More (3.1%) are combined under Other.

BACHELOR'S DEGREES BY RESIDENCY, 2016



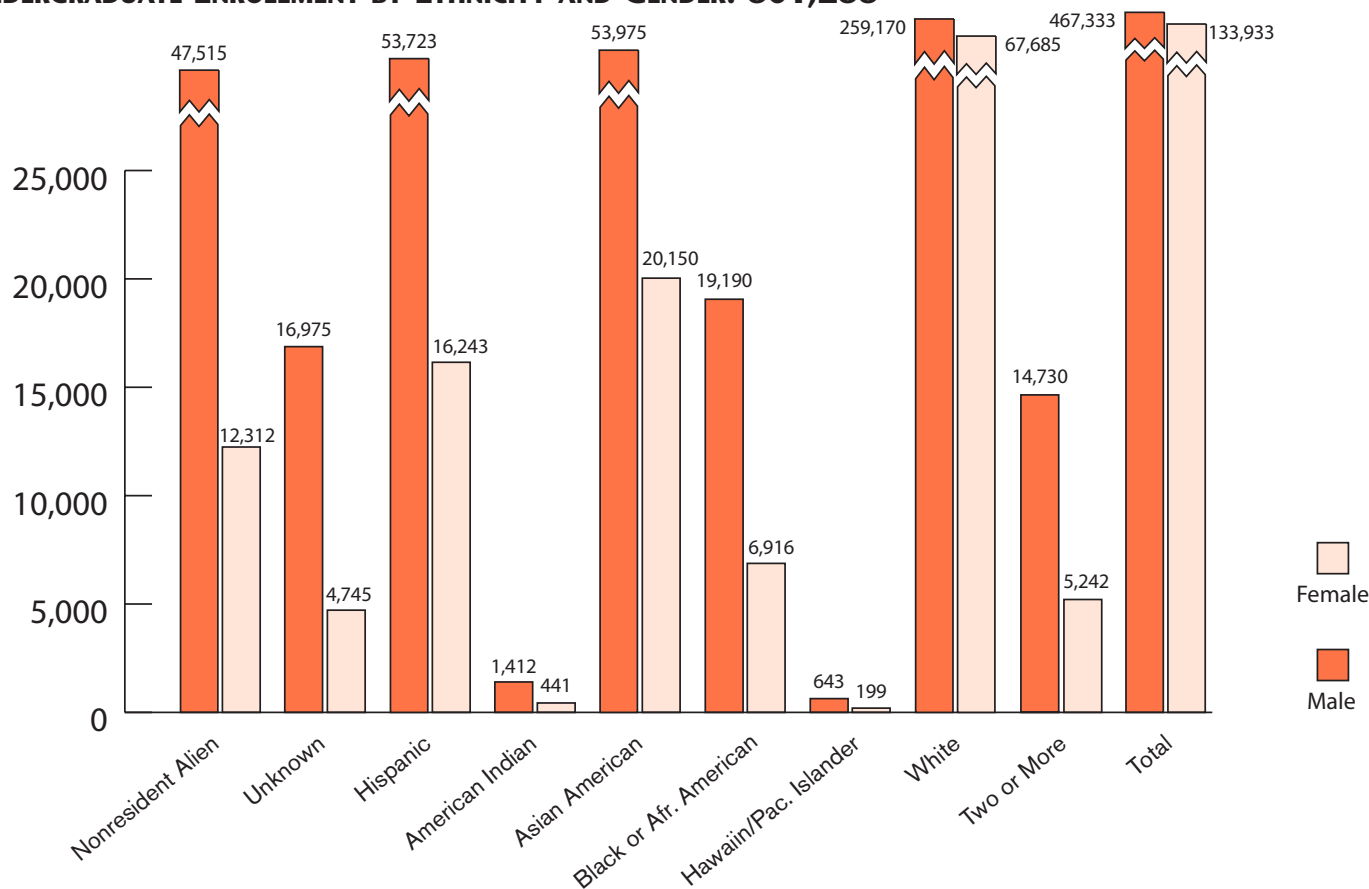
	2007	2008	2009	2010	2011	2012	2013	2014	2015
Nonresident Alien	6.7%	6.0%	6.0%	6.2%	6.7%	7.5%	7.8%	8.5%	9.1%
Permanent Resident	93.3%	94.0%	94.0%	93.8%	93.3%	92.5%	92.2%	91.5%	90.9%

BACHELOR'S DEGREES AWARDED BY ETHNICITY AND GENDER: 112,721*



*Includes 366 male and 168 female graduates from schools in Puerto Rico.

UNDERGRADUATE ENROLLMENT BY ETHNICITY AND GENDER: 601,266*



*Includes 3,168 male and 1,163 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	594
2. University of Michigan	415
3. Purdue University	409
4. Massachusetts Institute of Technology	352
5. University of California, San Diego	349
6. Cornell University	345
7. Univ. of Illinois, Urbana-Champaign	340
8. Texas A&M University	336
9. Pennsylvania State University	325
10. North Carolina State University	316
11. Virginia Tech	315
12. University of California, Berkeley	304
13. Arizona State University	298
14. The University of Texas at Austin	282
15. University of Florida	281
16. University of Washington	272
17. The Ohio State University	267
17. Colorado School of Mines	267
19. California Polytechnic State University	249
20. Stanford University	234
21. University of Southern California	222
21. Clemson University	222
23. University of California, Davis	219
24. Drexel University	214
25. Iowa State University	208
25. Worcester Polytechnic Institute	208
27. Rensselaer Polytechnic Institute	203
27. University of Maryland, College Park	203
29. University of Central Florida	202
30. University of Virginia	201
31. Rutgers University	196
32. Oregon State University	195
33. Missouri Univ. of Science and Tech.	193
34. Stony Brook University	185
35. University of Minnesota -Twin Cities	179
36. University of Colorado Boulder	178
37. University of Wisconsin-Madison	172
38. University of Puerto Rico, Mayaguez	168
39. The University of Alabama	165
40. Columbia University	163
41. Florida International University	159
42. Louisiana State University	158
42. Michigan Technological University	158
44. University of California, Los Angeles	156
45. Lehigh University	152
46. University of California, Irvine	148
46. University of Pittsburgh	148
46. Northeastern University	148
49. George Mason University	147
50. Auburn University	145

300 schools reported.

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

1. Franklin W. Olin College of Eng.	46.2%
2. Massachusetts Institute of Technology	44.8%
3. Dartmouth College	44.0%
4. Harvey Mudd College	41.7%
5. George Washington University	40.1%
6. Cornell University	39.9%
7. Southern Methodist University	39.3%
8. Tulane University	38.9%
9. Howard University	37.7%
10. Columbia University	37.3%
10. Princeton University	37.3%
12. Carnegie Mellon University	36.6%
13. Bucknell University	36.5%
14. William Marsh Rice University	35.9%
15. Yale University	35.4%
16. Brown University	34.7%
16. Harvard University	34.7%
18. Vanderbilt University	34.6%
19. Stanford University	33.4%
20. Worcester Polytechnic Institute	32.9%

*Minimum of 50 total bachelor's degrees awarded. 264 schools fit this criterion.

BACHELOR'S DEGREES AWARDED TO BLACK OR AFRICAN-AMERICANS BY SCHOOL

1. North Carolina A&T State University	147
2. Georgia Institute of Technology	124
3. University of Central Florida	98
4. Florida International University	84
5. Howard University	65
6. FAMU-FSU College of Engineering	62
7. University of Maryland, College Park	57
8. Univ. of Maryland, Baltimore County	55
9. Louisiana State University	52
9. Kennesaw State University	52
11. Mississippi State University	50
11. The University of Alabama	50
13. North Carolina State University	47
13. The Ohio State University	47
15. Massachusetts Institute of Technology	46
16. Texas Tech University	45
17. City College of the CUNY	43
18. George Mason University	42
19. University of Florida	40
19. Stanford University	40

300 schools reported.

BACHELOR'S DEGREES AWARDED TO ASIAN-AMERICANS BY SCHOOL

1. University of California, San Diego	739
2. University of California, Berkeley	684
3. Univ. of Illinois, Urbana-Champaign	459
4. Georgia Institute of Technology	403
5. University of California, Davis	385
6. University of California, Irvine	322
7. University of California, Los Angeles	308
8. Rutgers University	301
9. The University of Texas at Austin	278
10. Stony Brook University	271
11. University of Michigan	239
12. Cornell University	237
13. George Mason University	235
14. University of Washington	223
15. University of Southern California	211
16. California Polytechnic State University	210
17. California State University, Long Beach	198
18. Massachusetts Institute of Technology	196
18. University of Maryland, College Park	196
20. Stanford University	177

300 schools reported.

BACHELOR'S DEGREES AWARDED TO HISPANICS BY SCHOOL

1. Florida International University	561
2. University of Puerto Rico, Mayaguez	534
3. University of Central Florida	326
4. The University of Texas at El Paso	281
5. Texas A&M University	276
6. Arizona State University	256
7. The University of Texas Rio Grande Valley	235
8. University of Florida	221
9. California State University, Long Beach	217
10. California State Poly. U., Pomona	208
11. The University of Texas at Austin	196
12. University of California, San Diego	174
13. California Polytechnic State University	153
14. University of Arizona	145
15. The University of Texas at San Antonio	144
16. California State University, Los Angeles	141
17. California State University, Northridge	135
18. University of California, Irvine	132
19. Texas A&M University - Kingsville	129
19. University of Houston	129

300 schools reported.

AEROSPACE ENGINEERING DEGREES AWARDED BY SCHOOL

1. Embry Riddle Aero. U., Daytona Beach	214
2. Georgia Institute of Technology	162
3. Purdue University	149
4. Iowa State University	117
5. University of Michigan	112
6. University of Central Florida	111
7. Virginia Tech	108
8. Embry Riddle Aero. U., Prescott	106
8. Pennsylvania State University	106
8. The University of Texas at Austin	106
11. University of Maryland, College Park	101
12. University of North Dakota	96
13. Univ. of Illinois, Urbana-Champaign	95
14. Arizona State University	84
14. SUNY, Buffalo	84
16. Texas A&M University	83
17. California Polytechnic State University	81
17. University of Florida	81
19. Rensselaer Polytechnic Institute	78
20. California State University, Long Beach	71

62 schools reported.

BIOMEDICAL ENGINEERING DEGREES AWARDED BY SCHOOL

1. Georgia Institute of Technology	254
2. Arizona State University	152
3. University of California, San Diego	137
4. Boston University	131
5. Rutgers University	123
5. The Johns Hopkins University	123
7. Drexel University	122
8. Case Western Reserve University	106
9. University of Maryland, College Park	104
10. Clemson University	102
11. Duke University	99
11. University of California, Irvine	99
13. Rensselaer Polytechnic Institute	97
14. The University of Iowa	92
15. University of California, Davis	89
15. University of Virginia	89
17. The University of Texas at Austin	88
17. University of Wisconsin-Madison	88
19. University of Missouri	82
20. University of Minnesota -Twin Cities	80

117 schools reported.

CHEMICAL ENGINEERING DEGREES AWARDED BY SCHOOL

1. University of California, San Diego	193
2. Georgia Institute of Technology	189
3. The Ohio State University	180
4. North Carolina State University	177
5. University of Michigan	174
6. The University of Alabama	172
7. Arizona State University	166
8. Pennsylvania State University	160
9. Iowa State University	159
10. The University of Texas at Austin	152
11. Purdue University	146
12. University of Florida	144
13. University of Colorado Boulder	140
14. University of California, Davis	125
15. Univ. of Illinois, Urbana-Champaign	122
16. Texas A&M University	116
17. University of Massachusetts Amherst	108
17. University of Pittsburgh	108
19. University of Minnesota -Twin Cities	107
20. Colorado School of Mines	105
21. Rutgers University	104
22. Louisiana State University	103
22. Missouri Univ. of Science and Tech.	103
22. Montana State University	103
22. University of California, Berkeley	103
26. Michigan Technological University	102
27. Cornell University	100
27. Michigan State University	100
29. Lehigh University	97
30. University of Wisconsin-Madison	96
31. Auburn University	95
32. Drexel University	94
33. University of Oklahoma	92
33. Virginia Tech	92
35. University of South Florida	91
36. Northeastern University	89
37. Oregon State University	88
38. Brigham Young University	86
38. University of Puerto Rico, Mayaguez	86
40. University of Delaware	85
41. Worcester Polytechnic Institute	84
42. University of Notre Dame	83
43. New Jersey Institute of Technology	82
43. Rensselaer Polytechnic Institute	82
43. University of California, Los Angeles	82
46. University of Maryland, College Park	76
47. Mississippi State University	75
48. University of Cincinnati	73
49. FAMU-FSU College of Engineering	72
50. University of Kansas	71

152 schools reported.

CIVIL ENGINEERING DEGREES AWARDED BY SCHOOL

1. Texas A&M University	224
2. Univ. of Illinois, Urbana-Champaign	196
3. Virginia Tech	195
4. California State Poly. U., Pomona	174
4. Pennsylvania State University	174
6. The Ohio State University	169
7. Iowa State University	157
7. University of California, San Diego	157
9. North Carolina State University	154
10. Purdue University	141
11. University of California, Davis	139
12. University of Maryland, College Park	137
13. The University of Alabama	136
14. Northeastern University	135
15. Georgia Institute of Technology	130
16. Washington State University	128
17. California Polytechnic State University	125
18. The University of Texas at Austin	124
19. SUNY, Buffalo	122
20. San Diego State University	120
21. New Jersey Institute of Technology	119
21. University of Central Florida	119
21. University of Washington	119
24. Clemson University	113
24. University of Delaware	113
26. Texas Tech University	109
27. Montana State University	107
28. California State University, Long Beach	105
29. Manhattan College	102
30. California State University, Northridge	101
31. University of Wisconsin-Madison	99
32. California State University, Los Angeles	98
33. Auburn University	97
33. Missouri Univ. of Science and Tech.	97
35. University of Florida	94
36. Rutgers University	92
37. University of Hawaii at Manoa	91
38. Drexel University	90
38. Oregon State University	90
40. Mississippi State University	88
41. University of South Florida	87
42. Temple University	86
43. University of Puerto Rico, Mayaguez	83
44. Michigan Technological University	82
45. University of California, Irvine	81
45. University of Kentucky	81
45. University of Nebraska, Lincoln	81
48. Michigan State University	79
49. University of Massachusetts Amherst	78
49. University of Missouri	78

193 schools reported.

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

1. Georgia Institute of Technology	393
2. Purdue University	206
3. University of Michigan	202
4. Virginia Tech	182
5. Pennsylvania State University	178
6. Texas A&M University	176
7. University of Florida	151
8. The Ohio State University	139
9. Clemson University	121
10. California State Poly. U., Pomona	111
11. Cornell University	109
11. Iowa State University	109
13. University of Central Florida	103
14. Auburn University	98
15. California Polytechnic State University	97
16. Northwestern University	96
16. University of Louisiana at Lafayette	96
18. North Carolina State University	94
19. University of Southern California	91
20. West Virginia University	84
21. University of Wisconsin-Madison	83
22. Univ. of Illinois, Urbana-Champaign	81
23. University of Arkansas	80
24. Oregon State University	78
25. Arizona State University	75
26. University of Puerto Rico, Mayaguez	72
27. SUNY, Binghamton	70
27. University of Pittsburgh	70
29. Northeastern University	66
30. University of Miami	64
31. Washington University in St. Louis	62
32. Columbia University	60
33. University of Arizona	56
34. University of Washington	53
35. University of Missouri	52
36. Lehigh University	49
37. Kansas State University	48
37. The University of Texas at Arlington	48
37. University of California, Berkeley	48
40. George Mason University	44
40. University of Minnesota -Twin Cities	44
40. University of Oklahoma	44
43. University of South Florida	42
43. University of Wisconsin - Stout	42
45. Bradley University	39
45. Texas Tech University	39
47. FAMU-FSU College of Engineering	38
47. Southern Illinois University Edwardsville	38
47. SUNY, Buffalo	38
50. Rensselaer Polytechnic Institute	37

103 schools reported.

**MECHANICAL ENGINEERING
DEGREES AWARDED BY SCHOOL**

1. Georgia Institute of Technology	510
2. Pennsylvania State University	385
3. Virginia Tech	362
4. Iowa State University	358
5. Purdue University	346
6. University of Central Florida	339
7. University of Maryland, College Park	338
8. University of Michigan	301
9. The University of Texas at Austin	289
10. University of Florida	270
11. Washington State University	269
12. Univ. of Illinois, Urbana-Champaign	252
13. Michigan Technological University	251
14. Texas A&M University	248
15. California Polytechnic State University	240
16. The Ohio State University	238
17. Rutgers University	231
18. Arizona State University	230
19. Texas Tech University	227
20. Michigan State University	222
21. Drexel University	220
22. Northeastern University	219
23. Colorado School of Mines	218
24. SUNY, Buffalo	217
25. Missouri Univ. of Science and Tech.	209
26. University of California, Irvine	207
27. North Carolina State University	205
28. The University of Alabama	203
28. University of Colorado Boulder	203
28. University of Wisconsin-Madison	203
31. Worcester Polytechnic Institute	196
32. Rensselaer Polytechnic Institute	190
32. University of Minnesota -Twin Cities	190
34. Auburn University	189
35. California State University, Long Beach	188
36. Univ. of North Carolina, Charlotte	187
37. Clemson University	186
37. Massachusetts Institute of Technology	186
39. Rose-Hulman Institute of Technology	184
40. Montana State University	182
40. University of California, Berkeley	182
42. California State Poly. U., Pomona	180
43. The University of Texas at San Antonio	173
44. University of Massachusetts Amherst	170
45. San Diego State University	168
46. Rochester Institute of Technology	162
47. University of Wisconsin, Platteville	161
48. University of California, Davis	160
49. Oklahoma State University	159
50. Kettering University	157

253 schools reported.

**ELECTRICAL ENGINEERING
DEGREES AWARDED BY SCHOOL**

1. Univ. of Illinois, Urbana-Champaign	249
2. Georgia Institute of Technology	242
3. North Carolina State University	208
3. University of California, San Diego	208
5. Arizona State University	190
5. Texas A&M University	190
5. Pennsylvania State University	190
8. University of Washington	184
9. Purdue University	179
10. University of Central Florida	169
11. Florida International University	136
12. University of California, Los Angeles	130
13. University of Maryland, College Park	125
14. University of Minnesota -Twin Cities	123
15. California Polytechnic State University	119
15. The University of Texas at Dallas	119
15. Virginia Tech	119
18. Drexel University	116
19. California State Poly. U., Pomona	115
20. California State University, Long Beach	111
21. Iowa State University	108
22. University of Southern California	107
23. University of Michigan	104
24. Washington State University	102
25. Auburn University	101
25. Missouri Univ. of Science and Tech.	101
25. Rochester Institute of Technology	101
25. University of California, Davis	101
25. University of Massachusetts Lowell	101
30. University of Florida	99
31. The University of Texas at San Antonio	95
32. Clemson University	91
32. University of Illinois at Chicago	91
34. Northeastern University	90
35. Michigan State University	89
36. Milwaukee School of Engineering	88
37. SUNY, Buffalo	87
37. University of Missouri	87
39. University of South Florida	83
40. California State University, Northridge	82
41. Michigan Technological University	81
41. Rensselaer Polytechnic Institute	81
41. University of California, Irvine	81
41. University of Puerto Rico, Mayaguez	81
45. The University of Texas at El Paso	78
46. San Diego State University	75
47. City College of the CUNY	73
47. Old Dominion University	73
47. University of Wisconsin, Milwaukee	73
50. New Jersey Institute of Technology	72

228 schools reported.

COMPUTER ENGINEERING DEGREES AWARDED BY SCHOOL

1. University of California, Berkeley	369
2. Univ. of Illinois, Urbana-Champaign	215
3. Iowa State University	142
4. North Carolina State University	132
5. Georgia Institute of Technology	129
6. Purdue University	116
7. Virginia Tech	114
8. University of Florida	101
9. California Polytechnic State University	94
10. University of Central Florida	90
11. Drexel University	85
12. University of Michigan	81
13. Arizona State University	69
14. Northeastern University	68
14. University of Nevada, Reno	68
16. Boston University	67
17. Santa Clara University	65
17. Pennsylvania State University	65
19. Florida International University	63
20. University of Maryland, College Park	62
21. University of Puerto Rico, Mayaguez	60
22. SUNY, Binghamton	59
23. University of Wisconsin-Madison	58
24. California State Poly. U., Pomona	54
24. Rensselaer Polytechnic Institute	54
24. University of California-Santa Cruz	54
24. University of Pittsburgh	54
28. Univ. of Maryland, Baltimore County	53
29. California State University, Long Beach	51
29. Missouri Univ. of Science and Tech.	51
31. University of Washington	50
32. Univ. of California, Santa Barbara	49
32. University of Nebraska, Lincoln	49
34. Clemson University	48
35. University of South Florida	44
36. University of California, Irvine	42
37. Michigan State University	41
37. University of Missouri	41
39. Rochester Institute of Technology	40
39. University of Minnesota -Twin Cities	40
41. Michigan Technological University	39
42. SUNY, Buffalo	38
43. Villanova University	36
44. Old Dominion University	34
44. San Diego State University	34
44. University of Virginia	34
47. The University of Alabama in Huntsville	33
47. University of Kentucky	33
47. University of Michigan-Dearborn	33
50. Stony Brook University	32

175 schools reported.

ELECTRICAL/COMPUTER ENGINEERING DEGREES AWARDED BY SCHOOL

1. University of California, Berkeley	357
2. The University of Texas at Austin	264
3. The Ohio State University	205
4. Rutgers University	153
5. Carnegie Mellon University	149
6. New York Institute of Technology	136
7. Oregon State University	115
8. Worcester Polytechnic Institute	96
9. Brigham Young University	95
10. Cornell University	94
10. Massachusetts Institute of Technology	94
12. Duke University	89
13. University of Arizona	88
14. The University of Iowa	77
15. Colorado State University	60
16. The University of Akron	58
17. University of Missouri - Kansas City	49
18. Southern Illinois University Carbondale	48
19. The University of Toledo	45
20. University of Colorado Boulder	42

48 schools reported.

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

1. The University of Texas at Austin	464
2. University of California, Irvine	461
3. Georgia Institute of Technology	365
4. University of Maryland, College Park	302
5. New Jersey Institute of Technology	274
6. University of Wisconsin-Madison	259
7. Rutgers University	233
8. University of California, Davis	230
9. Purdue University	199
10. University of Massachusetts Amherst	171
11. University of Michigan	168
12. Carnegie Mellon University	153
13. University of Arizona	147
14. Brigham Young University	135
14. Northeastern University	135
16. University of Houston	128
17. University of Pittsburgh	110
18. Rochester Institute of Technology	104
19. The University of Iowa	99
20. Boston University	95

50 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. University of California, San Diego	565
2. University of Central Florida	390
3. Univ. of Illinois, Urbana-Champaign	379
4. Florida International University	321
5. University of Michigan	317
6. Oregon State University	313
7. Stanford University	261
8. Massachusetts Institute of Technology	248
9. Arizona State University	246
10. Stony Brook University	237
11. University of Minnesota -Twin Cities	231
12. The Ohio State University	228
13. The University of Texas at Dallas	223
14. University of Southern California	221
15. Cornell University	216
16. Virginia Tech	213
17. North Carolina State University	193
18. University of California-Santa Cruz	192
19. Texas A&M University	183
19. University of California, Los Angeles	183
19. University of Washington	183
22. Univ. of Maryland, Baltimore County	148
22. University of Pennsylvania	148
24. University of Missouri	144
25. University of South Florida	132
26. SUNY, Buffalo	128
27. George Mason University	126
28. Michigan State University	122
29. California State University, Fullerton	121
30. California State University, Northridge	120
30. SUNY, Binghamton	120
32. The University of Texas at Arlington	119
33. California Polytechnic State University	118
34. Clemson University	113
34. Pennsylvania State University	113
34. University of Connecticut	113
37. Princeton University	112
38. University of Illinois at Chicago	111
39. New York Institute of Technology	109
40. University of Virginia	105
41. Harvard University	101
41. University of Utah	101
43. Washington University in St. Louis	100
44. University of Colorado Boulder	99
45. University of Kentucky	98
46. Washington State University	97
47. Florida Atlantic University	95
47. University of North Texas	95
49. Missouri Univ. of Science and Tech.	93
50. California State University, Long Beach	92

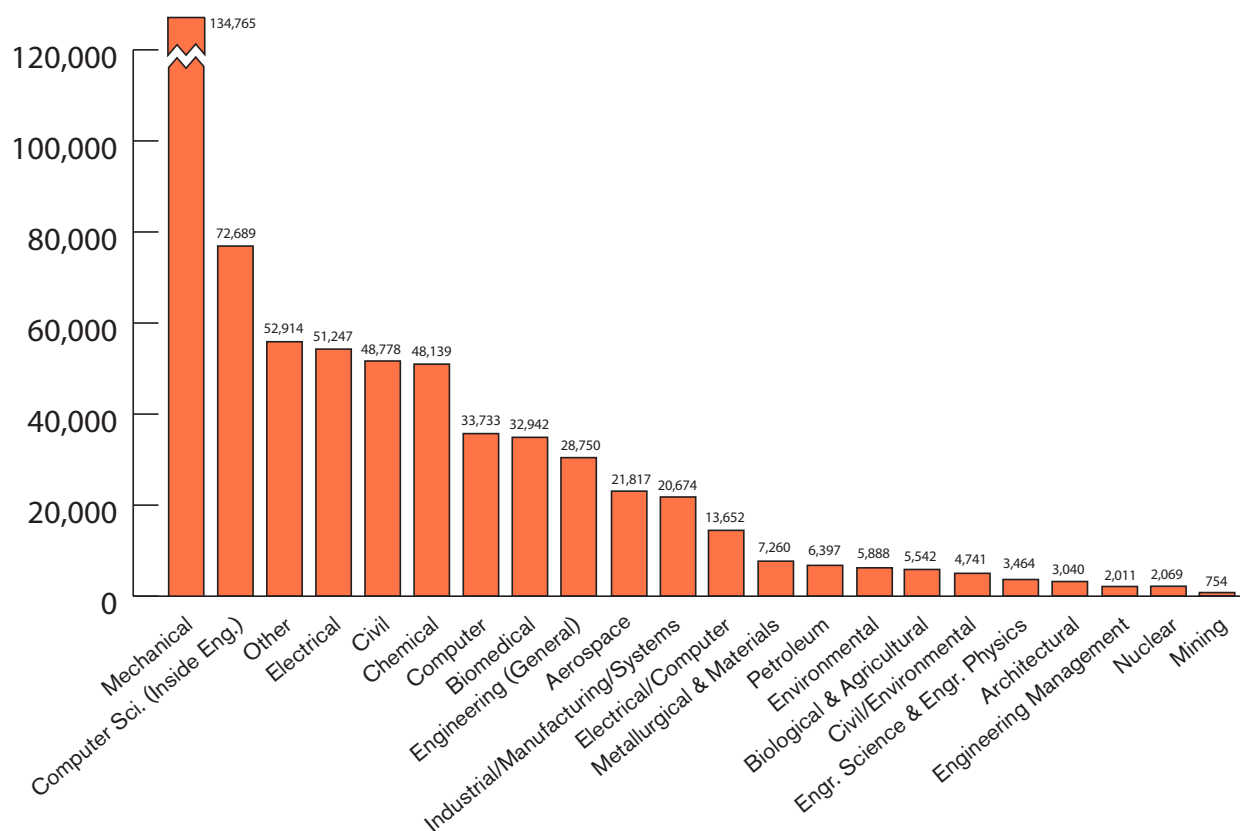
166 schools reported.

UNDERGRADUATE ENROLLMENT BY SCHOOL*

1. Arizona State University	12,712	23. The University of Alabama	5,523	43. West Virginia University	3,896
2. Texas A&M University	11,423	24. Auburn University	4,963	44. Washington State University	3,886
3. Georgia Institute of Technology	9,871	25. George Mason University	4,881	45. Kansas State University	3,875
4. Univ. of Illinois, Urbana-Champaign	9,344	26. University of California-Berkeley	4,836	46. Rutgers University	3,863
5. University of Central Florida	8,808	27. University of South Florida	4,800	47. Drexel University	3,854
6. Purdue University	8,705	28. University of Colorado Boulder	4,635	48. University of California-Santa Cruz	3,801
7. Iowa State University	8,541	29. Texas Tech University	4,621	49. Mississippi State University	3,792
8. Pennsylvania State University	8,300	30. University of Wisconsin-Madison	4,612	50. University of Utah	3,766
9. The Ohio State University	8,171	31. Florida International University	4,566		
10. Virginia Tech	7,707	32. Colorado School of Mines	4,564		
11. Oregon State University	7,366	33. California State Polytechnic University-Pomona	4,525		
12. University of Florida	6,922	34. The University of Texas at Dallas	4,474		
13. North Carolina State University	6,707	35. University of Minnesota -Twin Cities	4,360		
14. California Polytechnic State University	6,391	36. University of Puerto Rico-Mayaguez Campus	4,331		
15. University of Michigan	6,201				
16. Louisiana State University	6,120	37. California State University-Northridge	4,178		
17. University of California-San Diego	6,049	38. University of Oklahoma	4,162		
18. The University of Texas at Austin	5,904	39. California State University-Long Beach	4,128		
19. Missouri Univ. of Science and Tech.	5,685	40. University of Cincinnati	4,041		
20. Michigan State University	5,679	40. University of Maryland-College Park	4,041		
21. University of Washington	5,553	42. The University of Texas at Arlington	3,980		
22. Clemson University	5,552				

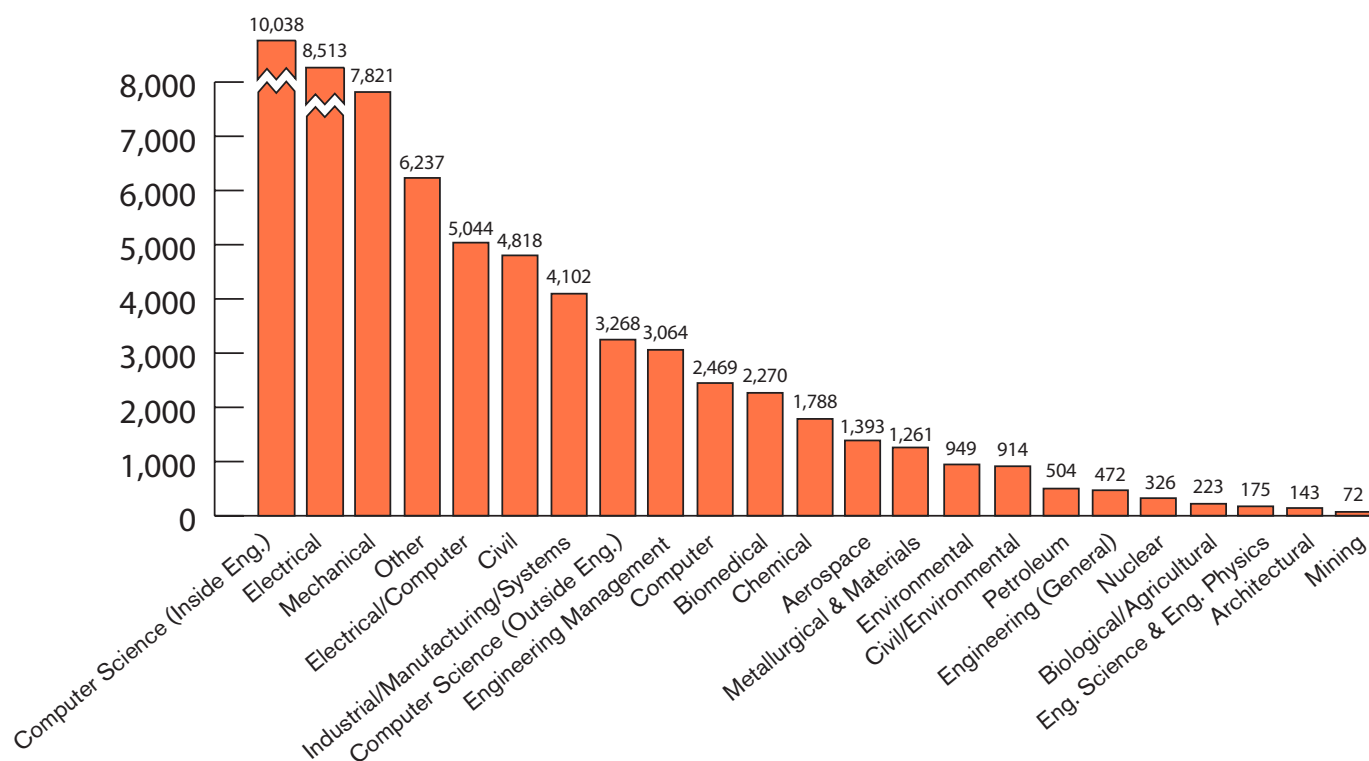
*Some schools do not permit formal enrollment in their engineering colleges until the second or third year. Enrollment is full-time plus part-time students.

UNDERGRADUATE ENROLLMENT BY DISCIPLINE: 601,266*



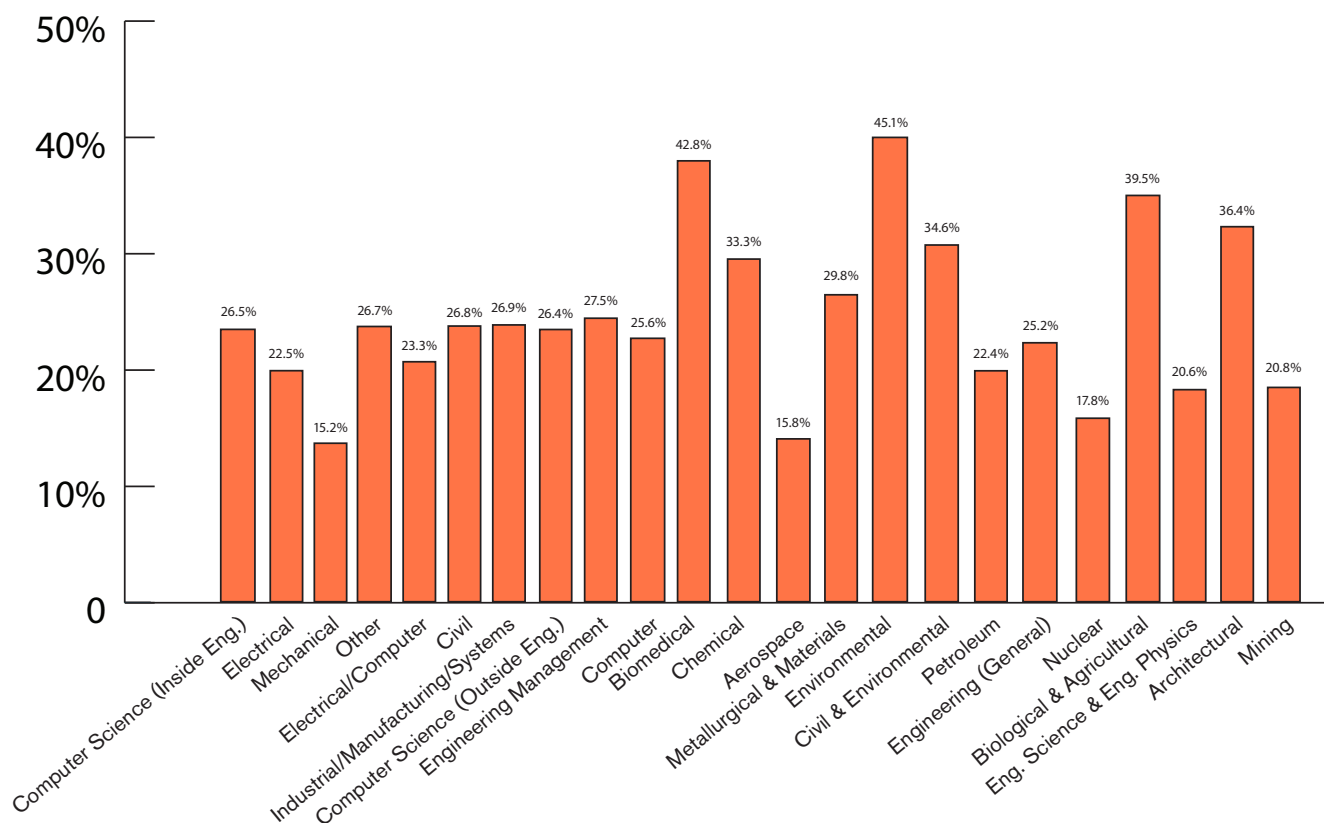
*Enrollment is for full-time bachelor's degree candidates in engineering. Total does not include computer science (outside engineering).

MASTER'S DEGREES AWARDED BY DISCIPLINE: 62,596*



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

PERCENTAGE OF MASTER'S DEGREES AWARDED TO WOMEN BY DISCIPLINE: 25.4% OF TOTAL



ENGINEERING MASTER'S DEGREES AWARDED BY SCHOOL

1. University of Southern California	2,062
2. Columbia University	1,285
3. Georgia Institute of Technology	1,262
4. Arizona State University	1,261
5. The University of Texas at Arlington	1,226
6. Stevens Institute of Technology	1,093
7. University of Michigan	1,088
8. Stanford University	1,084
9. The Johns Hopkins University	1,026
10. Carnegie Mellon University	993
11. North Carolina State University	991
12. The University of Texas at Dallas	989
13. Cornell University	973
14. NYU Tandon School of Engineering	962
15. Texas A&M University – Kingsville	935
16. Northeastern University	851
17. Univ. of Illinois, Urbana-Champaign	849
18. Texas A&M University	821
19. University of Florida	762
20. Massachusetts Institute of Technology	760
21. SUNY, Buffalo	705
22. Purdue University	682
23. University of California, Los Angeles	639
24. New Jersey Institute of Technology	618
25. New York Institute of Technology	614
26. California State University, Fullerton	613
27. University of Washington	611
28. University of California, Berkeley	600
29. Missouri Univ. of Science and Tech.	588
30. Northwestern University	570
31. University of California, San Diego	555
32. University of Pennsylvania	554
33. Stony Brook University	540
34. The Ohio State University	515
35. University of Maryland, College Park	505
36. University of Illinois at Chicago	490
37. Illinois Institute of Technology	484
37. George Mason University	484
39. University of Colorado Boulder	483
40. Wright State University	475
41. George Washington University	473
42. Santa Clara University	466
43. Syracuse University	453
44. University of Missouri - Kansas City	446
45. Clemson University	440
45. Wayne State University	440
47. University of Michigan-Dearborn	437
48. University of Bridgeport	425
49. University of Minnesota - Twin Cities	412
50. Southern Methodist University	408

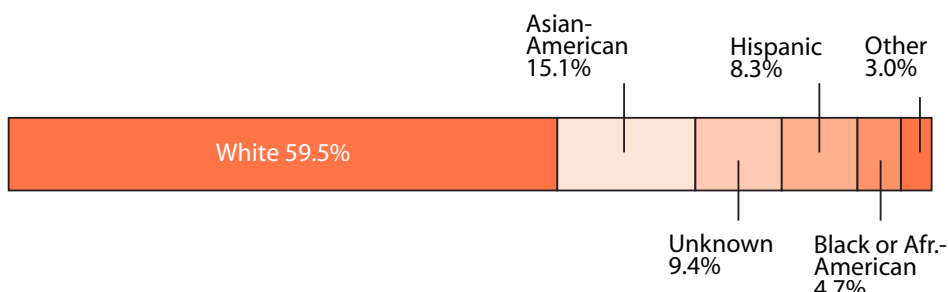
245 schools reported.

MASTER'S DEGREES BY GENDER, 2016



	2007	2008	2009	2010	2011	2012	2013	2014	2015
Female	22.5%	22.4%	23.0%	23.0%	22.6%	22.6%	23.1%	23.9%	24.2%
Male	77.5%	77.6%	77.0%	77.0%	77.4%	77.4%	76.9%	76.1%	75.8%

MASTER'S DEGREES BY ETHNICITY, 2016*



	2007	2008	2009	2010	2011	2012	2013	2014	2015
Black or African American	4.4%	4.6%	4.8%	4.7%	5.1%	4.9%	4.7%	4.7%	4.4%
Hispanic	4.7%	5.2%	5.4%	5.3%	6.0%	6.3%	7.3%	7.6%	7.7%
Other	15.7%	15.2%	15.1%	17.4%	1.4%	1.5%	2.0%	2.2%	2.6%
Asian American	16.5%	16.5%	15.4%	15.1%	14.9%	15.5%	14.5%	15.0%	14.5%
White	58.7%	58.5%	59.3%	57.5%	60.9%	58.2%	59.7%	59.5%	60.2%
Unknown					11.7%	13.6%	11.8%	11.0%	10.6%

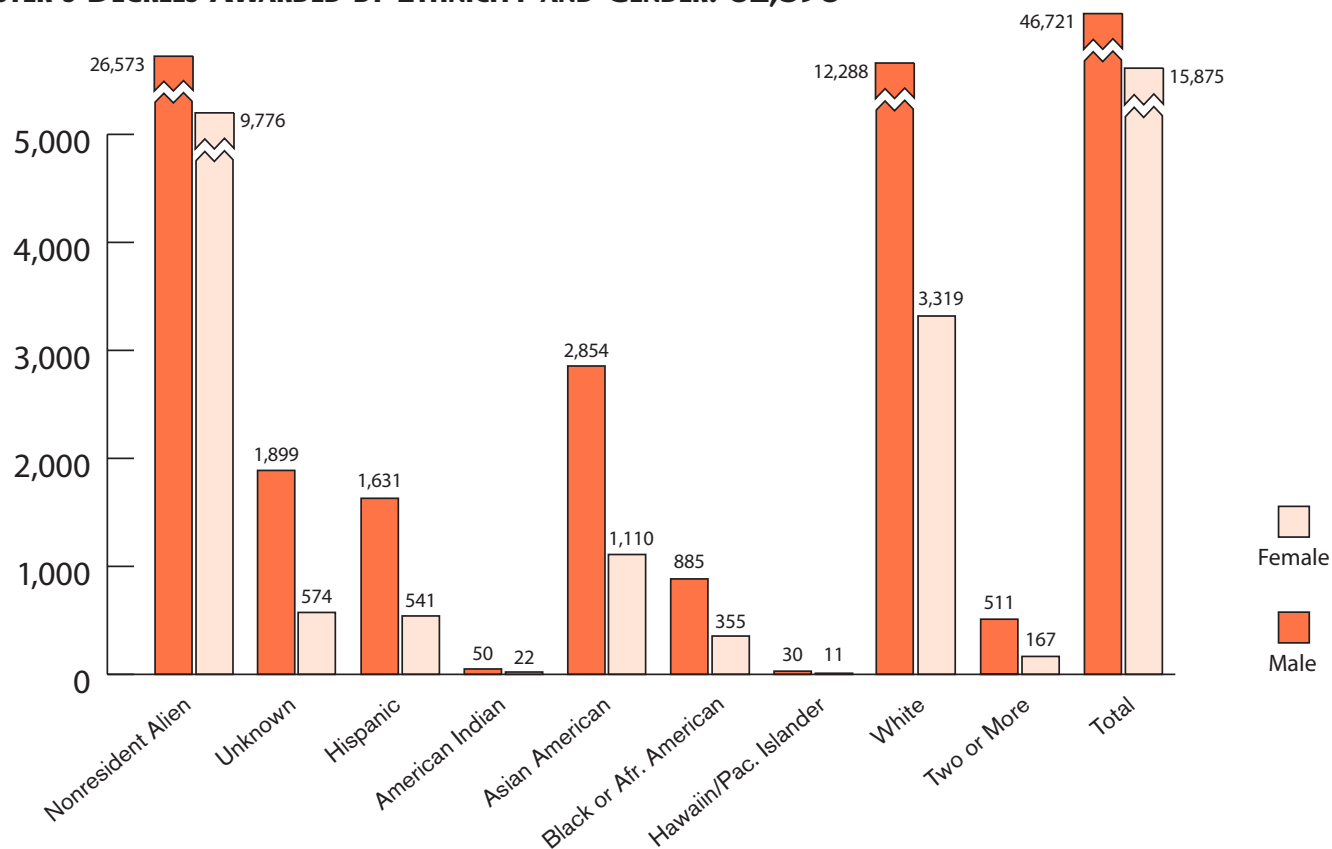
*Data on ethnicity does not include foreign nationals. American Indians (0.3%), Hawaiian/Pacific Islanders (0.2%) and Two or More (2.6%) are combined under Other.

MASTER'S DEGREES BY RESIDENCY, 2016



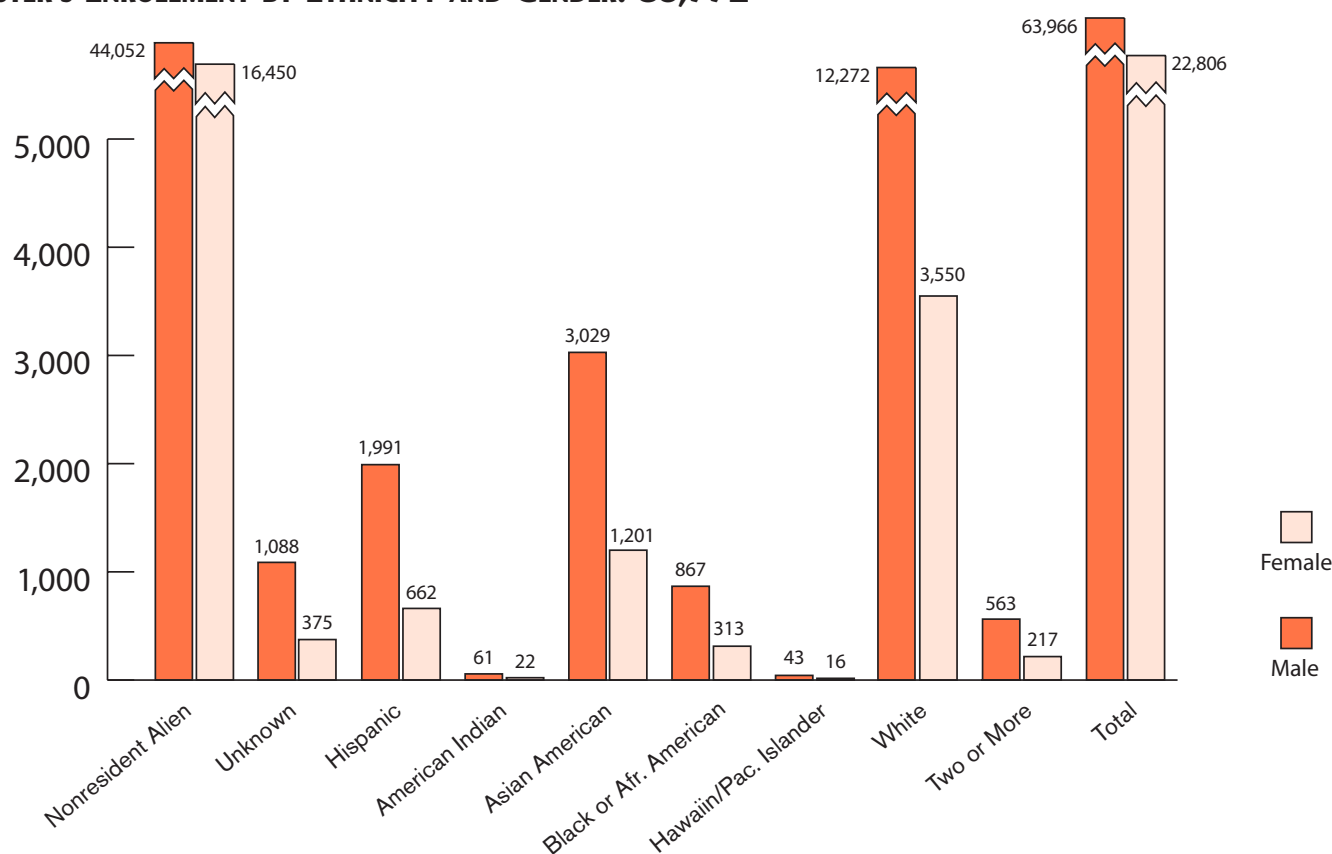
	2007	2008	2009	2010	2011	2012	2013	2014	2015
Nonresident Alien	39.8%	38.7%	41.7%	44.1%	44.4%	43.3%	45.3%	47.4%	47.0%
Permanent Resident	61.3%	58.3%	55.9%	53.9%	55.6%	56.7%	54.7%	52.6%	53.0%

MASTER'S DEGREES AWARDED BY ETHNICITY AND GENDER: 62,596*



*Includes 47 male and 21 female graduates from schools in Puerto Rico.

MASTER'S ENROLLMENT BY ETHNICITY AND GENDER: 86,772*



*Includes 192 Hispanic male and 77 Hispanic female enrolled students from schools in Puerto Rico.

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

1. University of Miami	40.6%
2. Santa Clara University	39.7%
3. Ohio University	36.7%
4. Duke University	36.5%
4. Brown University	36.5%
6. Portland State University	35.7%
7. University of Colorado Denver	34.5%
8. University of Pennsylvania	33.6%
9. Case Western Reserve University	33.3%
10. University of California, Berkeley	33.2%
11. Virginia Commonwealth University	32.7%
11. Columbia University	32.7%
11. Kansas State University	32.7%
14. Northwestern University	32.6%
15. Tufts University	32.5%
16. Cornell University	32.3%
17. University of California, Irvine	32.1%
17. Drexel University	32.1%
17. Temple University	32.1%
20. Yale University	31.8%

*Minimum of 50 total master's degrees awarded.
188 schools fit this criterion.

PERCENTAGE OF DOCTORAL DEGREES AWARDED TO WOMEN BY SCHOOL*

1. Rutgers University	46.8%
2. Drexel University	45.7%
3. Tufts University	41.9%
4. New Jersey Institute of Technology	41.4%
5. University of Massachusetts Lowell	36.6%
6. University of Kansas	35.5%
7. William Marsh Rice University	35.0%
8. Ohio University	34.6%
9. University of California-Santa Cruz	34.3%
10. University of California, Riverside	33.9%
11. Univ. of Maryland, Baltimore County	33.3%
12. University of California, Davis	33.1%
13. Illinois Institute of Technology	32.6%
14. Stony Brook University	31.5%
15. Kansas State University	31.0%
15. University of Illinois at Chicago	31.0%
17. Clemson University	30.9%
18. Carnegie Mellon University	30.7%
19. Northwestern University	30.1%
20. University of Minnesota -Twin Cities	30.0%

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

GRADUATE ENROLLMENT BY SCHOOL*

1. University of Southern California	5,497
2. Georgia Institute of Technology	4,304
3. Univ. of Illinois, Urbana-Champaign	3,806
4. Stanford University	3,675
5. Arizona State University	3,636
6. University of Michigan	3,570
7. Texas A&M University	3,469
8. Purdue University	3,417
9. North Carolina State University	3,303
10. The University of Texas at Arlington	3,247
11. Northeastern University	3,170
12. Massachusetts Institute of Technology	3,124
13. University of Florida	2,883
14. Columbia University	2,878
15. University of California San Diego	2,635
16. NYU Tandon School of Engineering	2,618
17. University of Washington	2,416
18. The University of Texas at Dallas	2,408
19. Carnegie Mellon University	2,357
20. The Johns Hopkins University	2,278
21. Virginia Tech	2,257
22. University of California Los Angeles	2,187
23. The University of Texas at Austin	2,148
24. University of Maryland College Park	2,126
25. Northwestern University	2,088
26. University of California Berkeley	2,077
27. Cornell University	2,069
28. Stevens Institute of Technology	2,041
29. Pennsylvania State University	2,029
30. University of Minnesota -Twin Cities	1,923
31. University of Colorado Boulder	1,900
32. University at Buffalo SUNY	1,859
33. The Ohio State University	1,849
34. George Washington University	1,769
35. George Mason University	1,711
36. University of Pennsylvania	1,674
37. Wayne State University	1,570
38. Stony Brook University	1,503
39. University of Illinois at Chicago	1,462
40. Texas A&M University - Kingsville	1,454
41. University of Wisconsin-Madison	1,451
42. University of Central Florida	1,427
43. Clemson University	1,415
44. New Jersey Institute of Technology	1,405
45. Iowa State University	1,337
46. University of Utah	1,259
47. Washington University in St. Louis	1,256
48. Oregon State University	1,248
49. University of Houston	1,247
50. University of Michigan-Dearborn	1,226

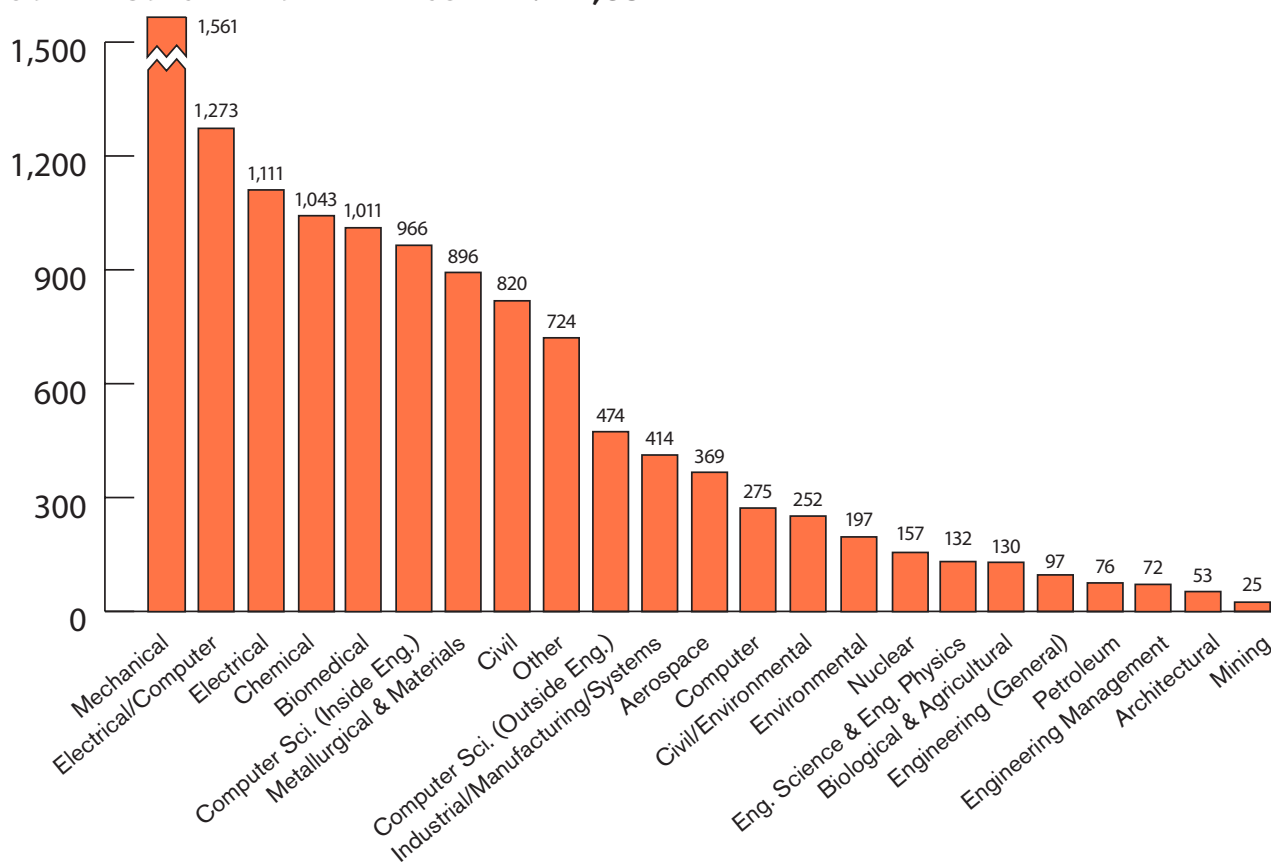
*248 schools reported.
*Includes both full-time and part-time.

ENGINEERING DOCTORAL DEGREES AWARDED BY SCHOOL

1. Georgia Institute of Technology	355
2. Massachusetts Institute of Technology	334
3. Stanford University	321
4. Purdue University	284
5. University of Michigan	255
6. Texas A&M University	247
7. Univ. of Illinois, Urbana-Champaign	245
8. The University of Texas at Austin	243
9. University of California, Berkeley	235
10. Pennsylvania State University	200
11. Virginia Tech	199
12. North Carolina State University	181
13. University of Minnesota -Twin Cities	180
14. University of Florida	172
15. Cornell University	170
16. The Ohio State University	167
16. University of Southern California	167
18. University of California, Los Angeles	163
19. University of California, San Diego	160
20. Carnegie Mellon University	153
21. Arizona State University	152
22. Columbia University	142
23. University of Colorado Boulder	139
24. University of Maryland, College Park	138
25. University of Wisconsin-Madison	134
26. Northwestern University	123
27. University of Washington	121
28. University of California, Davis	118
29. The Johns Hopkins University	117
30. Colorado School of Mines	115
31. Missouri Univ. of Science and Tech.	105
31. Drexel University	105
31. University of Arizona	105
34. Iowa State University	104
35. William Marsh Rice University	100
36. The University of Texas at Arlington	98
37. Clemson University	97
38. University of Delaware	96
39. California Institute of Technology	93
40. Stony Brook University	92
41. University of Tennessee, Knoxville	90
41. University of Houston	90
43. University of Central Florida	89
44. University of Utah	88
45. Univ. of California, Santa Barbara	84
46. Princeton University	83
47. Duke University	82
48. University of Pittsburgh	78
49. Rensselaer Polytechnic Institute	77
50. SUNY, Buffalo	76

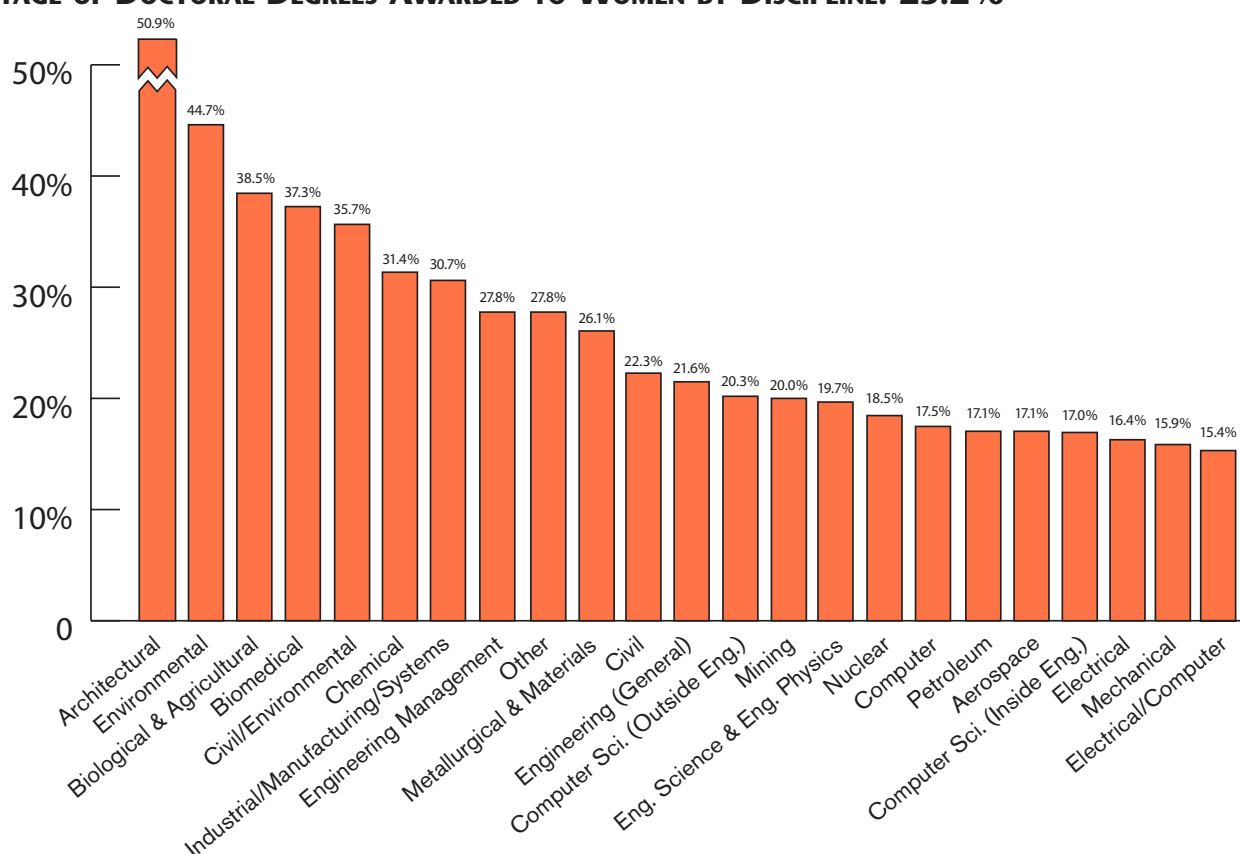
194 schools reported.

DOCTORAL DEGREES AWARDED BY DISCIPLINE: 11,654*



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

PERCENTAGE OF DOCTORAL DEGREES AWARDED TO WOMEN BY DISCIPLINE: 23.2%



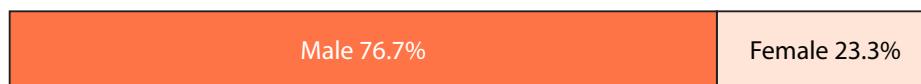
* Total does not include computer science (outside engineering).

DOCTORAL DEGREES AWARDED TO FOREIGN NATIONALS

1. Purdue University	175
2. Georgia Institute of Technology	174
3. Texas A&M University	171
4. Stanford University	152
5. Univ. of Illinois, Urbana-Champaign	146
6. Massachusetts Institute of Technology	145
7. The University of Texas at Austin	133
8. University of Michigan	130
9. Pennsylvania State University	127
10. Virginia Tech	116
11. University of Southern California	111
12. North Carolina State University	107
13. The Ohio State University	104
14. University of Florida	98
15. Arizona State University	97
15. University of California, Berkeley	97
17. Columbia University	91
18. University of Minnesota -Twin Cities	90
19. University of California, San Diego	88
20. Cornell University	84
21. Carnegie Mellon University	78
22. University of California, Los Angeles	77
23. University of Houston	75
24. Iowa State University	74
25. Stony Brook University	72
26. The University of Texas at Arlington	68
26. University of Maryland, College Park	68
28. Clemson University	65
29. Missouri Univ. of Science and Tech.	64
29. SUNY, Buffalo	64
31. University of Wisconsin-Madison	63
31. Northwestern University	61
33. University of Arizona	59
34. University of Tennessee, Knoxville	55
35. University of Central Florida	54
36. Northeastern University	53
36. University of Delaware	53
38. Lehigh University	51
39. Michigan State University	49
39. University of California, Davis	49
39. Washington State University	49
39. The University of Texas at Dallas	49
43. University of Illinois at Chicago	48
43. University of Connecticut	48
45. University of Washington	47
45. Louisiana State University	47
47. Rensselaer Polytechnic Institute	46
47. The Johns Hopkins University	46
47. William Marsh Rice University	46
50. Auburn University	45

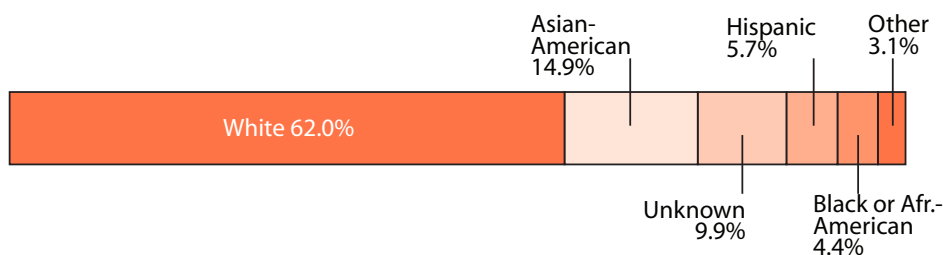
183 schools reported.

DOCTORAL DEGREES BY GENDER, 2016



	2007	2008	2009	2010	2011	2012	2013	2014	2015
Female	20.2%	20.8%	21.2%	21.2%	22.9%	21.8%	22.2%	22.4%	22.2%
Male	79.8%	79.2%	78.8%	78.8%	77.1%	78.2%	77.8%	77.6%	77.8%

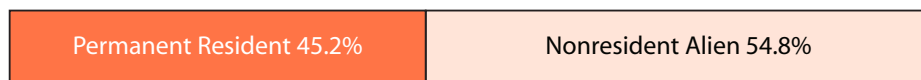
DOCTORAL DEGREES BY ETHNICITY, 2016*



	2007	2008	2009	2010	2011	2012	2013	2014	2015
Black or African American	3.6%	3.2%	3.8%	4.4%	3.5%	4.1%	4.1%	3.6%	3.2%
Hispanic	3.5%	3.6%	3.8%	5.2%	4.2%	4.1%	4.7%	5.1%	6.1%
Other	18.7%	19.5%	17.6%	1.0%	1.6%	1.7%	1.7%	1.6%	2.2%
Asian American	12.0%	12.4%	13.2%	14.0%	15.1%	14.1%	13.5%	10.4%	14.1%
White	62.2%	61.3%	61.6%	65.7%	60.3%	61.1%	61.8%	65.1%	62.9%
Unknown				9.7%	15.3%	14.9%	14.2%	14.2%	11.5%

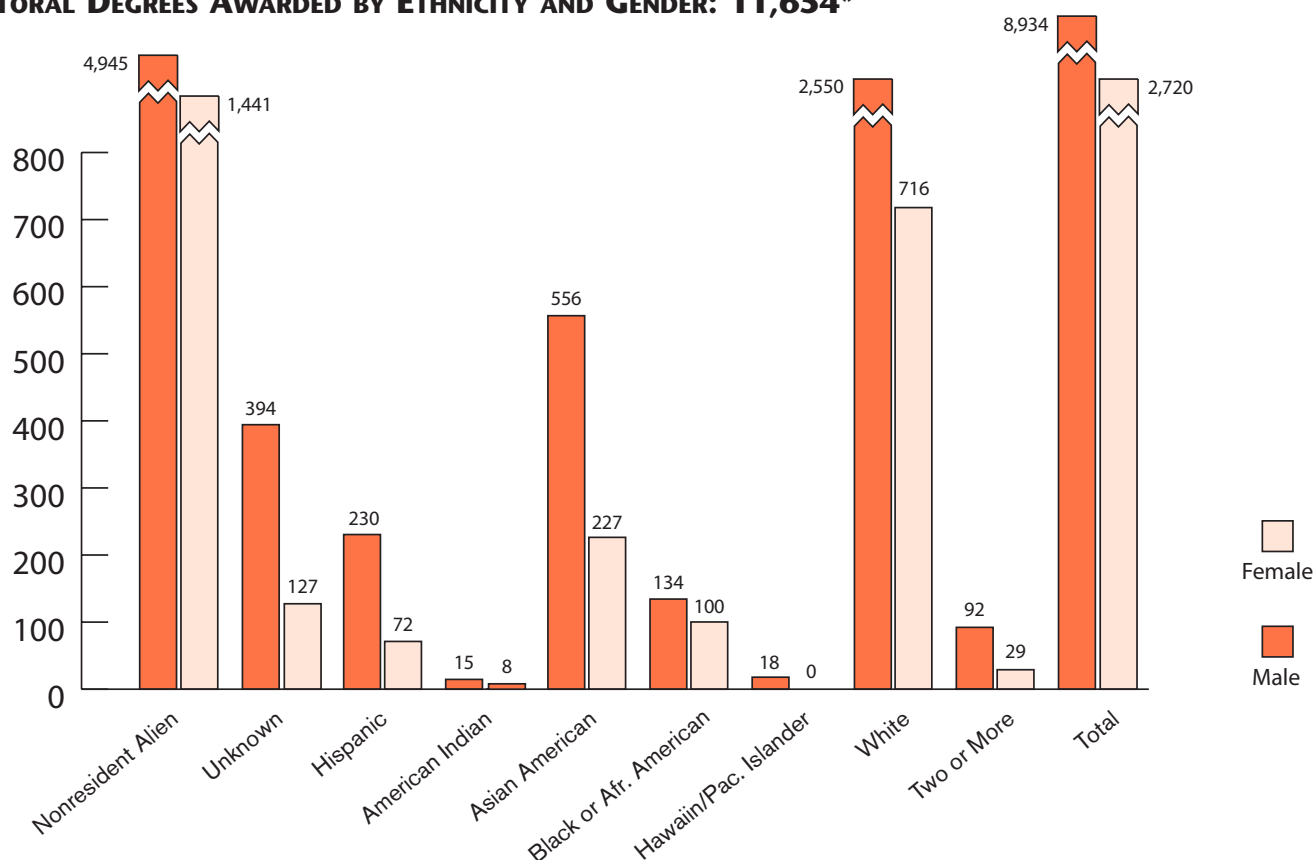
*Data on ethnicity does not include foreign nationals. American Indians (0.4%), Hawaiian/Pacific Islanders (0.3%), and Two or More (2.3%) are combined under Other.

DOCTORAL DEGREES BY RESIDENCY, 2016



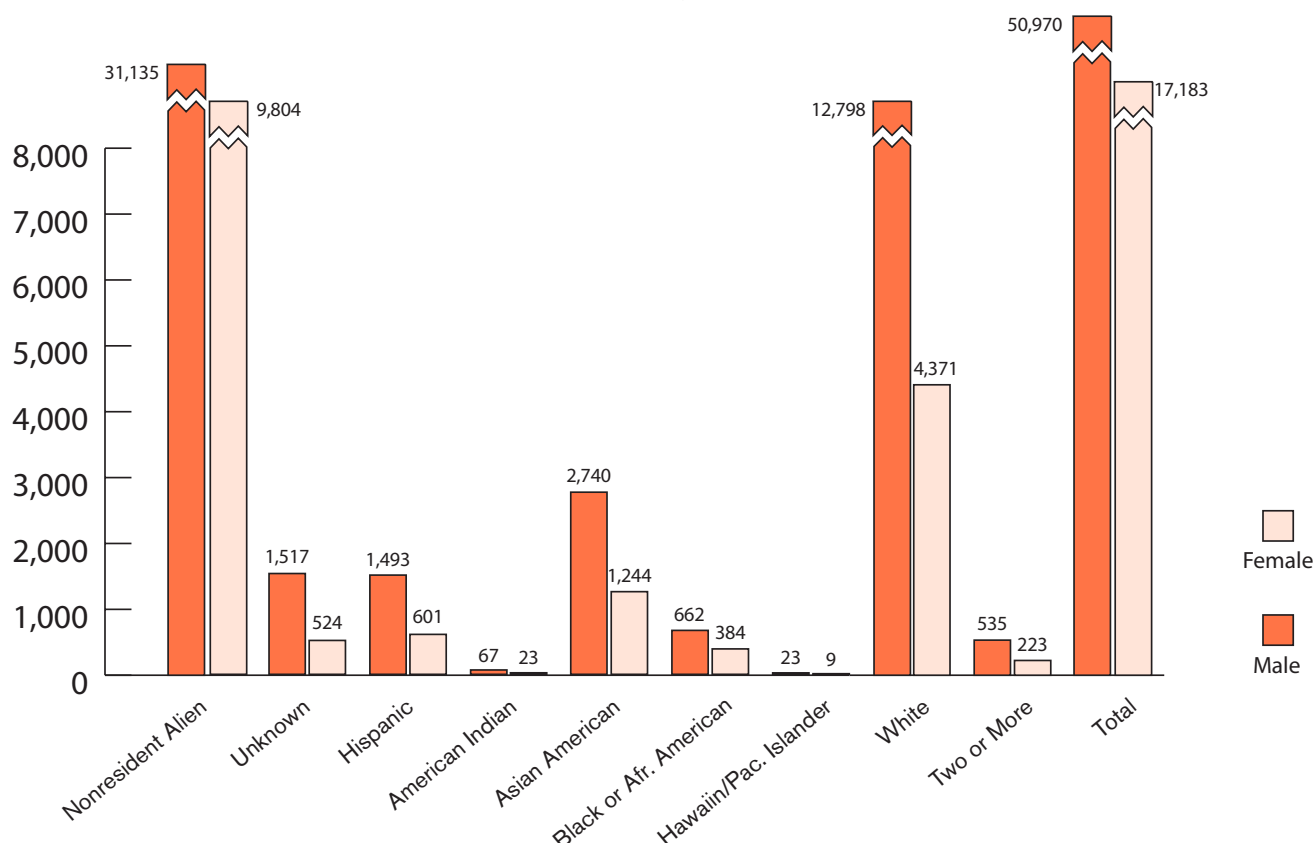
	2007	2008	2009	2010	2011	2012	2013	2014	2015
Nonresident Alien	61.6%	55.1%	55.1%	54.2%	54.2%	53.3%	55.1%	54.8%	54.7%
Permanent Resident	38.4%	44.9%	44.9%	45.8%	45.8%	46.7%	44.9%	45.2%	45.3%

DOCTORAL DEGREES AWARDED BY ETHNICITY AND GENDER: 11,654*



*Includes 5 Hispanic male and 6 Hispanic female graduates from schools in Puerto Rico.

DOCTORAL ENROLLMENT BY ETHNICITY AND GENDER: 68,153*



*Includes 62 Hispanic male and 22 Hispanic female enrolled students from schools in Puerto Rico.

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

1. Georgia Institute of Technology	2,140
2. Univ. of Illinois, Urbana-Champaign	1,732
3. Pennsylvania State University	1,684
4. Purdue University	1,547
5. Virginia Tech	1,422
6. Texas A&M University	1,376
7. Iowa State University	1,315
8. Arizona State University	1,308
9. North Carolina State University	1,296
10. University of California, Berkeley	1,273
11. The Ohio State University	1,268
12. University of Michigan	1,266
13. The University of Texas at Austin	1,207
14. University of Florida	1,102
15. California Polytechnic State University	1,060
16. University of Maryland, College Park	1,011
17. University of California, San Diego	976
18. University of Central Florida	966
19. Missouri Univ. of Science and Tech.	962
20. Colorado School of Mines	910
21. Drexel University	865
22. Rutgers University	839
23. Clemson University	827
24. University of Wisconsin-Madison	826
25. University of Washington	805
26. University of Minnesota -Twin Cities	769
26. Louisiana State University	769
28. Rensselaer Polytechnic Institute	762
29. California State Poly. U., Pomona	749
30. SUNY, Buffalo	745
31. Oregon State University	740
32. University of California, Davis	739
33. University of Colorado Boulder	697
34. Michigan State University	691
35. Michigan Technological University	685
36. Auburn University	684
37. Texas Tech University	676
38. University of California, Irvine	669
39. Northeastern University	667
40. The University of Alabama	658
41. West Virginia University	651
42. Cornell University	648
43. California State University, Long Beach	642
44. Worcester Polytechnic Institute	632
45. Washington State University	624
46. Stony Brook University	604
47. University of Pittsburgh	591
48. University of Arizona	579
48. George Mason University	579
50. University of Missouri	549

299 schools reported.

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

1. University of Southern California	1,290
2. Georgia Institute of Technology	1,262
3. University of Michigan	1,088
4. Columbia University	1,031
5. Carnegie Mellon University	993
6. Arizona State University	938
7. Stanford University	888
8. The University of Texas at Arlington	874
9. Stevens Institute of Technology	868
10. Northeastern University	851
11. The Johns Hopkins University	800
12. Cornell University	773
13. Massachusetts Institute of Technology	755
14. University of Florida	754
15. North Carolina State University	690
16. Purdue University	682
17. Texas A&M University	668
18. Univ. of Illinois, Urbana-Champaign	664
19. University of California, Los Angeles	639
19. NYU Tandon School of Engineering	639
21. New Jersey Institute of Technology	618
22. University of Washington	611
23. University of California, Berkeley	578
24. Missouri Univ. of Science and Tech.	565
25. Texas A&M University - Kingsville	534
26. University of Maryland, College Park	505
27. Illinois Institute of Technology	484
28. Northwestern University	483
29. Santa Clara University	466
30. University of Colorado Boulder	424
31. The Ohio State University	421
32. George Mason University	418
33. SUNY, Buffalo	413
34. Drexel University	405
35. University of California, San Diego	404
35. The University of Texas at Dallas	404
37. The University of Texas at Austin	400
38. University of Illinois at Chicago	397
39. Pennsylvania State University	388
39. University of Houston	388
41. University of Michigan-Dearborn	386
42. Worcester Polytechnic Institute	377
42. Wayne State University	377
44. Clemson University	375
45. University of Wisconsin-Madison	372
46. Syracuse University	368
46. Southern Methodist University	368
48. University of Pennsylvania	367
48. Wright State University	367
50. Colorado School of Mines	364

245 schools reported.

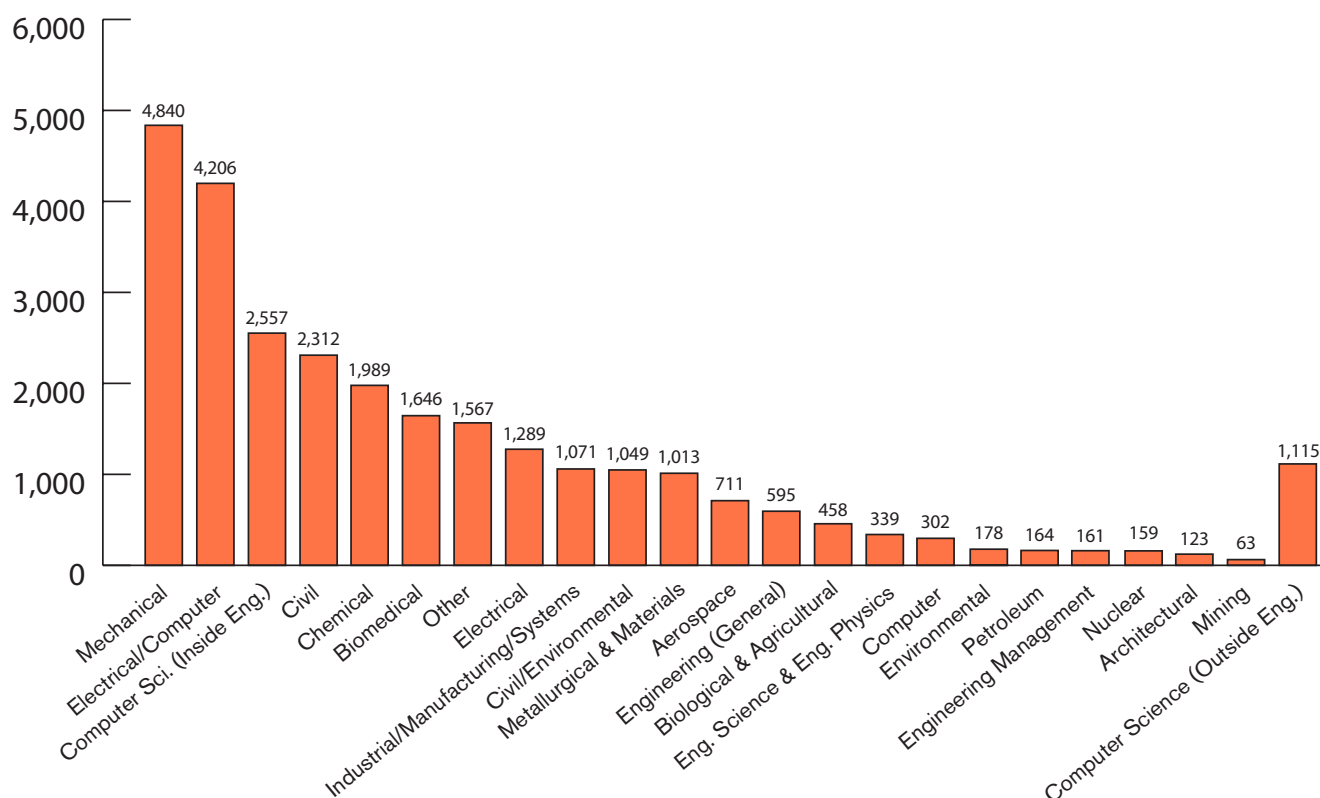
ENGINEERING DOCTORAL DEGREES AWARDED BY SCHOOL (EXCLUDING COMPUTER SCIENCE)

1. Georgia Institute of Technology	355
2. Massachusetts Institute of Technology	334
3. Stanford University	296
4. Purdue University	284
5. University of Michigan	255
6. The University of Texas at Austin	243
7. Texas A&M University	215
8. Univ. of Illinois, Urbana-Champaign	205
9. University of California, Berkeley	204
10. Pennsylvania State University	200
11. Virginia Tech	177
12. University of Florida	165
13. University of California, Los Angeles	163
14. North Carolina State University	155
15. University of Minnesota -Twin Cities	153
15. Carnegie Mellon University	153
17. University of California, San Diego	145
18. Cornell University	142
18. University of Southern California	142
20. University of Maryland, College Park	138
21. The Ohio State University	135
22. University of Wisconsin-Madison	134
23. Arizona State University	129
24. University of Washington	121
25. University of Colorado Boulder	120
26. Northwestern University	114
27. Colorado School of Mines	112
28. Columbia University	110
29. Drexel University	105
29. University of Arizona	105
31. Iowa State University	104
32. Missouri Univ. of Science and Tech.	99
32. University of California, Davis	99
32. The Johns Hopkins University	99
35. California Institute of Technology	93
36. Clemson University	91
37. University of Houston	90
37. William Marsh Rice University	90
39. University of Delaware	85
40. University of Tennessee, Knoxville	84
41. The University of Texas at Arlington	82
41. Duke University	82
43. University of Central Florida	80
44. University of Pittsburgh	78
45. Rensselaer Polytechnic Institute	77
46. University of Utah	75
47. Boston University	74
47. Northeastern University	74
47. Stony Brook University	74
50. Univ. of California, Santa Barbara	73

194 schools reported.

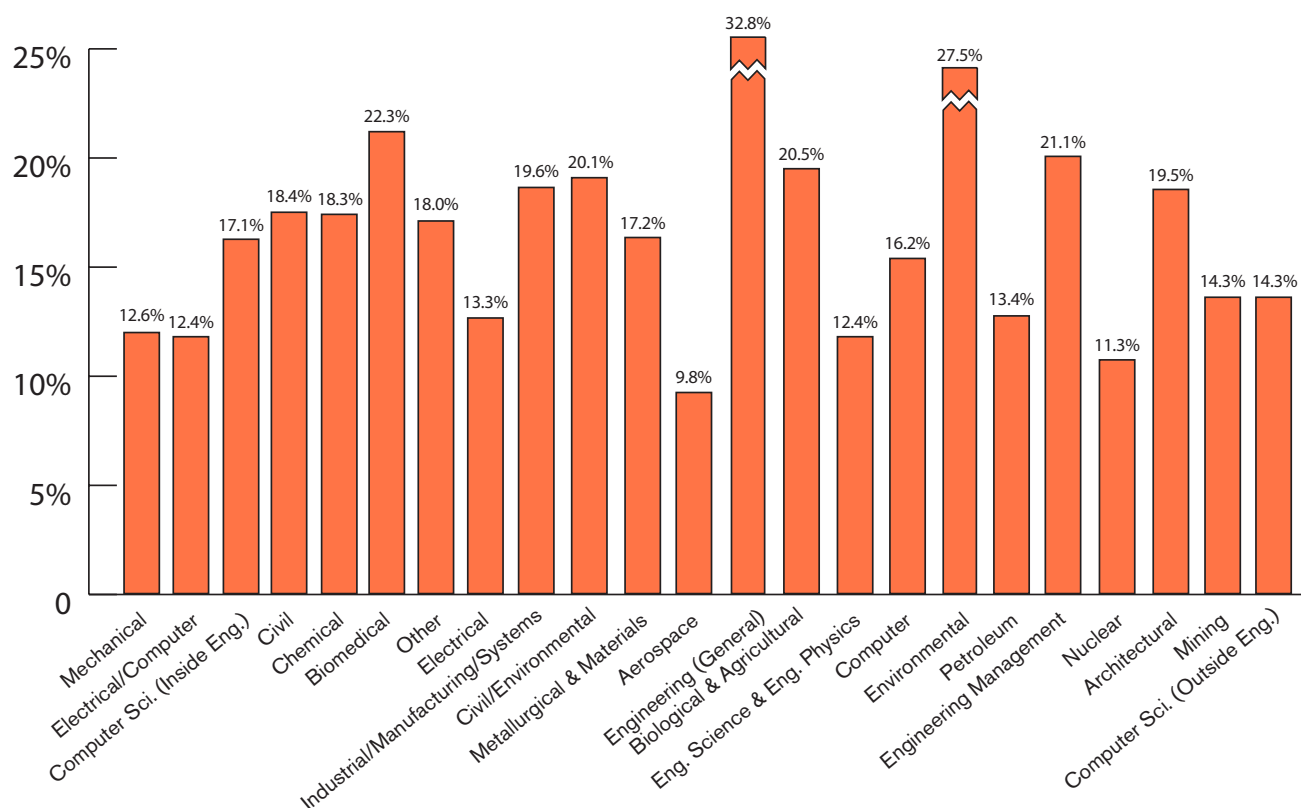
Note: All enrollment and degree data in this book includes computer science programs administered by the engineering colleges. This page displays the largest degree programs at each level without the computer science programs.

NUMBER OF TENURED/TENURE-TRACK FACULTY BY DISCIPLINE: 27,907*



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

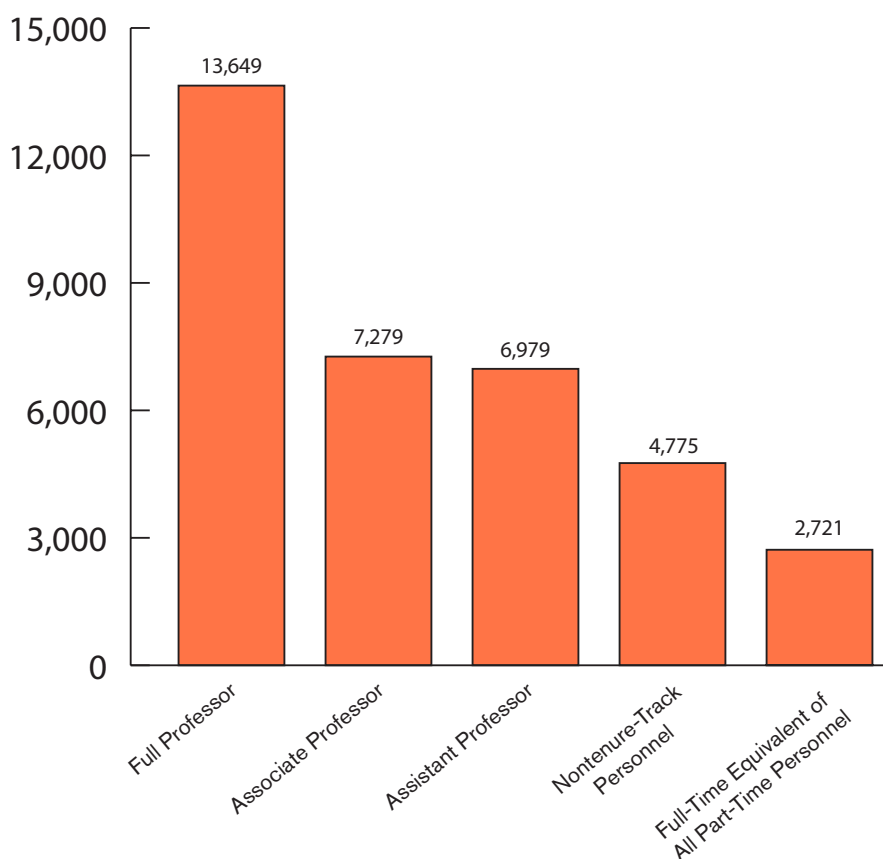
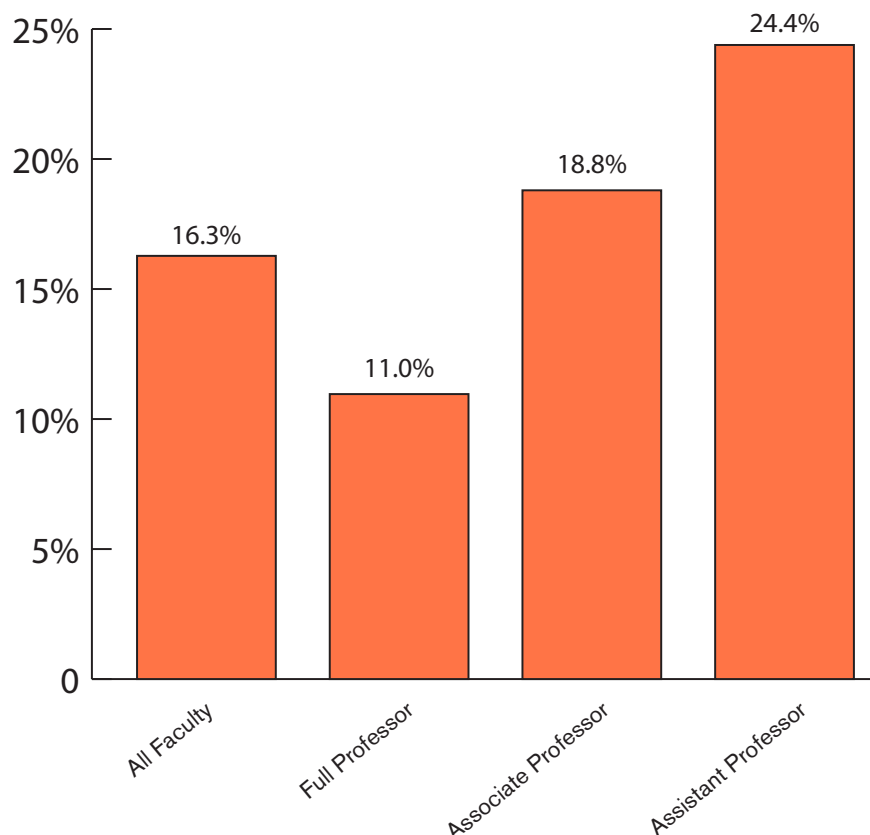
PERCENTAGE OF WOMEN TENURED/TENURE-TRACK FACULTY BY DISCIPLINE: 16.3%



TENURED/TENURE-TRACK FACULTY MEMBERS BY SCHOOL

1. Univ. of Illinois, Urbana-Champaign	451
2. Georgia Institute of Technology	438
3. Texas A&M University	410
4. University of Michigan	409
5. Massachusetts Institute of Technology	379
6. Purdue University	361
7. Virginia Tech	351
8. Pennsylvania State University	350
9. North Carolina State University	336
10. Arizona State University	302
11. University of Florida	272
12. The University of Texas at Austin	271
13. The Ohio State University	269
14. Cornell University	262
15. University of California, Berkeley	260
16. University of Washington	258
17. Stanford University	249
18. Iowa State University	245
19. University of Minnesota -Twin Cities	236
20. University of California, San Diego	217
21. University of Wisconsin-Madison	212
22. University of Utah	211
23. University of California, Davis	210
23 University of Nebraska, Lincoln	210
25. Clemson University	208
25. University of Maryland, College Park	208
27. Michigan State University	199
28. The Johns Hopkins University	197
29. Colorado School of Mines	194
30. University of Colorado Boulder	192
31. Northwestern University	190
32. University of Southern California	185
33. University of Tennessee, Knoxville	181
34. Missouri Univ. of Science and Tech.	180
35. SUNY, Buffalo	179
36. Oregon State University	177
37. University of Puerto Rico, Mayaguez	174
38. University of California, Los Angeles	172
39. Carnegie Mellon University	170
40. Stony Brook University	167
41. University of Arizona	163
42. The University of Texas at Dallas	161
43. Auburn University	160
43. Columbia University	160
45. Washington State University	156
46. Univ. of California, Santa Barbara	154
47. Northeastern University	150
47. University of Kentucky	150
47. University of Oklahoma	150
50. Rutgers University	149

298 schools reported.

NUMBER OF TEACHING PERSONNEL BY RANK: 35,403**PERCENTAGE OF WOMEN TENURED/TENURE-TRACK FACULTY BY LEVEL**

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

1. Western Carolina University	72.9%
2. Seattle University	40.0%
2. Franklin W. Olin College of Eng.	40.0%
4. Santa Clara University	33.3%
5. University of the Pacific	31.4%
6. Univ. of Maryland, Baltimore County	29.8%
7. University of Hartford	29.4%
8. Rowan University	27.7%
9. University of the District of Columbia	27.6%
10. California Baptist University	27.3%
10. University of Saint Thomas	27.3%
12. Mercer University	27.0%
13. Gannon University	26.7%
13. Univ. of North Carolina at Chapel Hill	26.7%
13. Villanova University	26.7%
16. California State University, Long Beach	26.1%
17. University of Puerto Rico, Mayaguez	25.9%
18. Boise State University	25.4%
19. Saint Louis University	25.0%
19. Tulane University	25.0%
19. University of Minnesota, Duluth	25.0%
19. Bucknell University	25.0%
19. California Polytechnic State University	25.0%
24. California State University, Los Angeles	24.4%
24. Wentworth Institute of Technology	24.4%

26. Stevens Institute of Technology	24.2%
27. Montana State University	23.8%
28. California State University, Sacramento	23.6%
29. Grand Valley State University	23.3%
29. University of California, Davis	23.3%
31. Hofstra University	23.1%
32. University of Washington	22.9%
32. University of Wisconsin, Platteville	22.9%
34. California State University, Northridge	22.7%
35. George Washington University	22.6%
36. University of New Haven	22.5%
37. Tufts University	22.4%
38. Northeastern University	22.0%
39. Drexel University	21.8%
39. Kettering University	21.8%
41. University of Massachusetts Lowell	21.7%
42. Arizona State University	21.2%
43. University of Illinois at Chicago	21.1%
44. Colorado School of Mines	20.6%
44. Lafayette College	20.6%
46. Rose-Hulman Institute of Technology	20.5%
47. University of California, Irvine	20.4%
48. University of Delaware	20.2%
49. University of Michigan	20.0%
49. Lawrence Technological University	20.0%

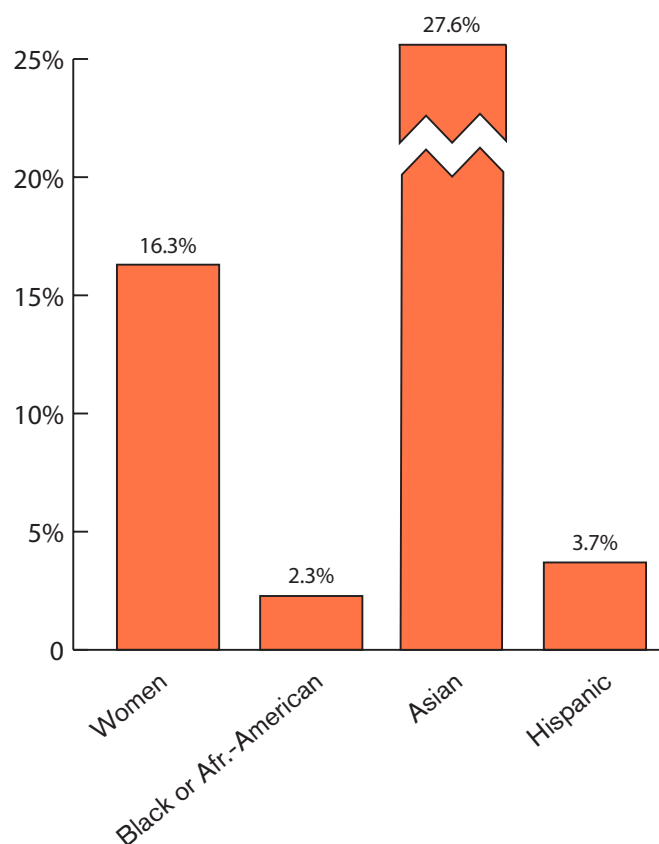
*Minimum of 25 faculty members.
239 schools fit this criterion.

WOMEN TENURED/TENURE-TRACK FACULTY BY SCHOOL

1. Western Carolina University	102
2. University of Michigan	82
3. Univ. of Illinois, Urbana-Champaign	76
4. Georgia Institute of Technology	73
5. Purdue University	70
6. Massachusetts Institute of Technology	68
7. Arizona State University	64
8. University of Washington	59
9. Virginia Tech	54
10. Texas A&M University	53
11. Pennsylvania State University	52
12. North Carolina State University	50
13. University of California, Davis	49
13. University of Florida	49
15. University of Puerto Rico, Mayaguez	45
16. Iowa State University	44
16. The Ohio State University	44
16. University of California, Berkeley	44
19. Cornell University	43
19. The University of Texas at Austin	43

299 schools reported

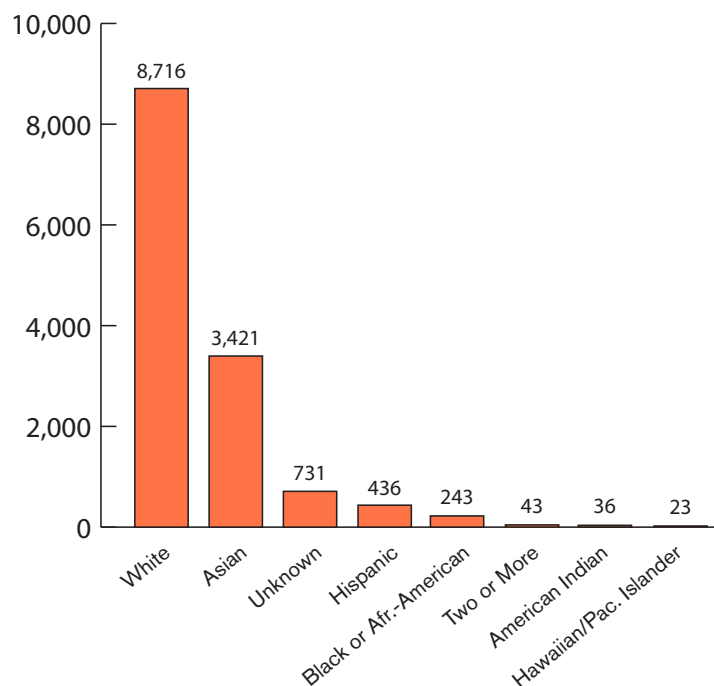
PERCENTAGE OF WOMEN AND MINORITY FACULTY, 2007–2016*



	Women	African-American	Asian	Hispanic
2007	11.8%	2.5%	22.6%	3.4%
2008	12.3%	2.5%	22.7%	3.5%
2009	12.7%	2.5%	23.3%	3.5%
2010	13.2%	2.5%	23.9%	3.6%
2011	13.8%	2.5%	24.1%	3.7%
2012	14.0%	2.7%	24.6%	3.9%
2013	14.5%	2.6%	25.2%	3.6%
2014	15.2%	2.5%	25.6%	3.9%
2015	15.7%	2.5%	26.9%	3.9%
2016	16.3%	2.3%	27.6%	3.7%

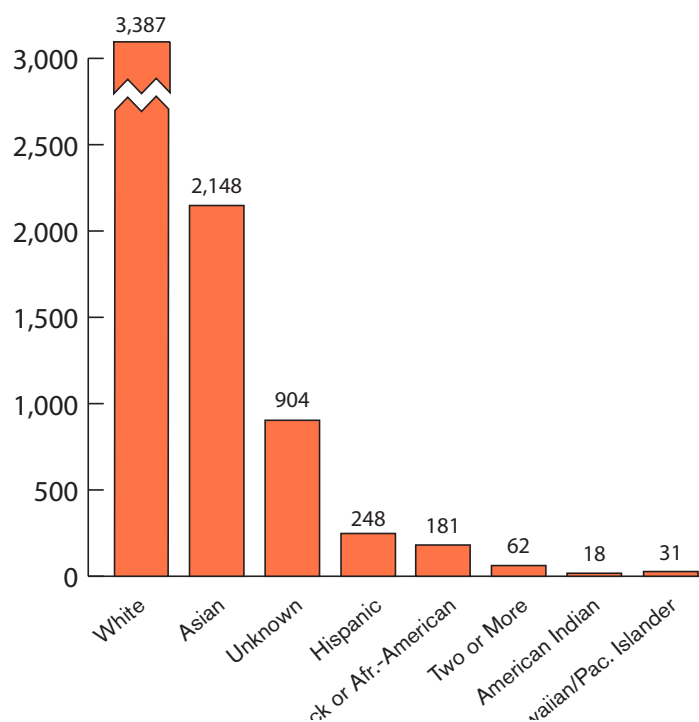
*Note: Includes faculty data from University of Puerto Rico, Mayaguez, Polytechnic University of Puerto Rico and Turabo University.

NUMBER OF FULL PROFESSORS BY RACE/ETHNICITY (TEACHING): 13,649*



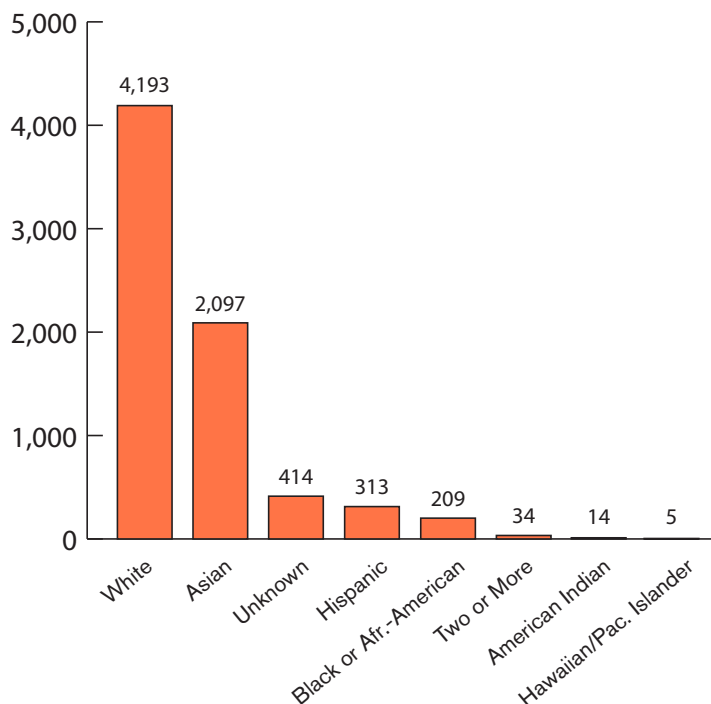
*Note: Includes 90 Hispanic faculty from University of Puerto Rico, Mayaguez, Campus.

NUMBER OF ASSISTANT PROFESSORS BY RACE/ETHNICITY (TEACHING): 6,979*



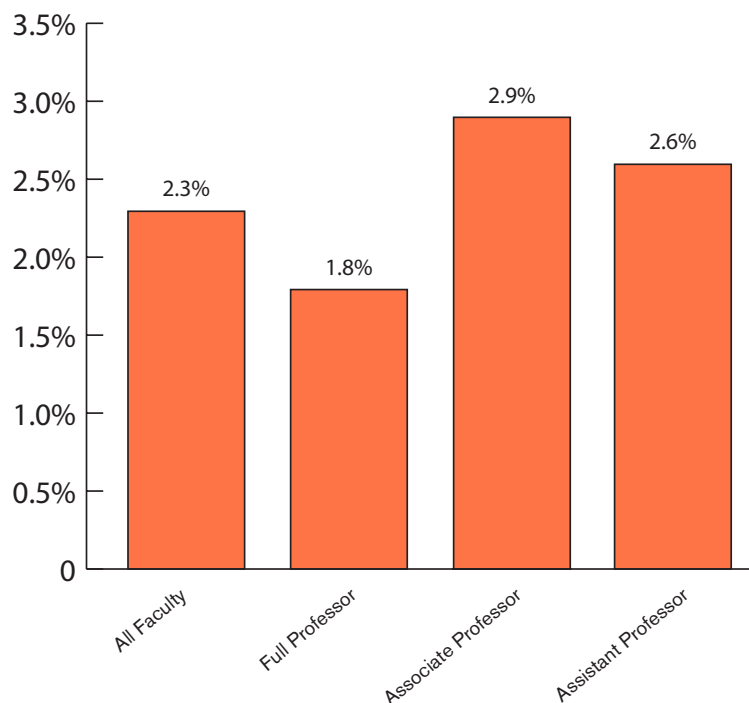
*Note: Includes 16 Hispanic faculty from University of Puerto Rico, Mayaguez, Polytechnic University of Puerto Rico and Turabo University. Computer Science (outside engineering) has been removed.

NUMBER OF ASSOCIATE PROFESSORS BY RACE/ETHNICITY (TEACHING): 7,279*

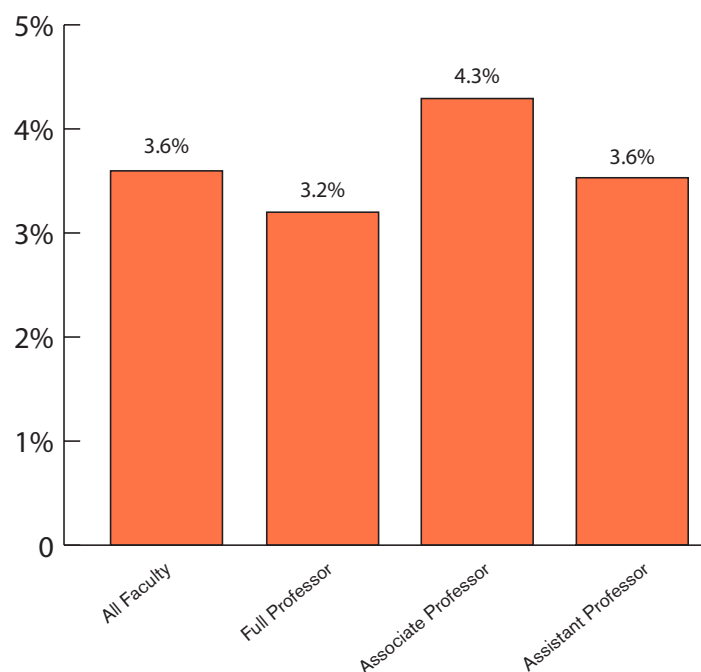


*Note: Includes 40 Hispanic faculty from University of Puerto Rico, Mayaguez, Polytechnic University of Puerto Rico and Turabo University. Computer Science (outside engineering) has been removed.

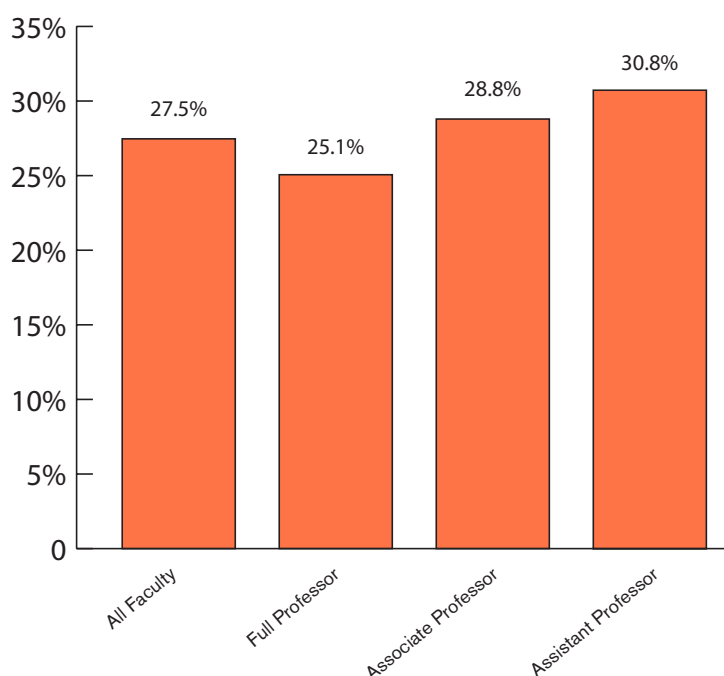
PERCENTAGE OF AFRICAN-AMERICAN TENURED/TENURE-TRACK FACULTY BY LEVEL*



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. Computer Science (outside engineering) has been removed.

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

1. Howard University	29
2. North Carolina A&T State University	20
3. FAMU-FSU College of Engineering	16
4. Georgia Institute of Technology	15
4. University of Michigan	15
6. University of Florida	14
7. Cornell University	11
7. Massachusetts Institute of Technology	11
7. Univ. of Illinois, Urbana-Champaign	11
7. Univ. of Tennessee, Chattanooga	11
11. Tuskegee University	10
12. Pennsylvania State University	9
13. Northwestern University	8
14. Iowa State University	7
14. New Jersey Institute of Technology	7
14. North Carolina State University	7
14. Purdue University	7
14. University of Maryland, College Park	7
14. University of the District of Columbia	7
14. Virginia Tech	7

299 schools reported.

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

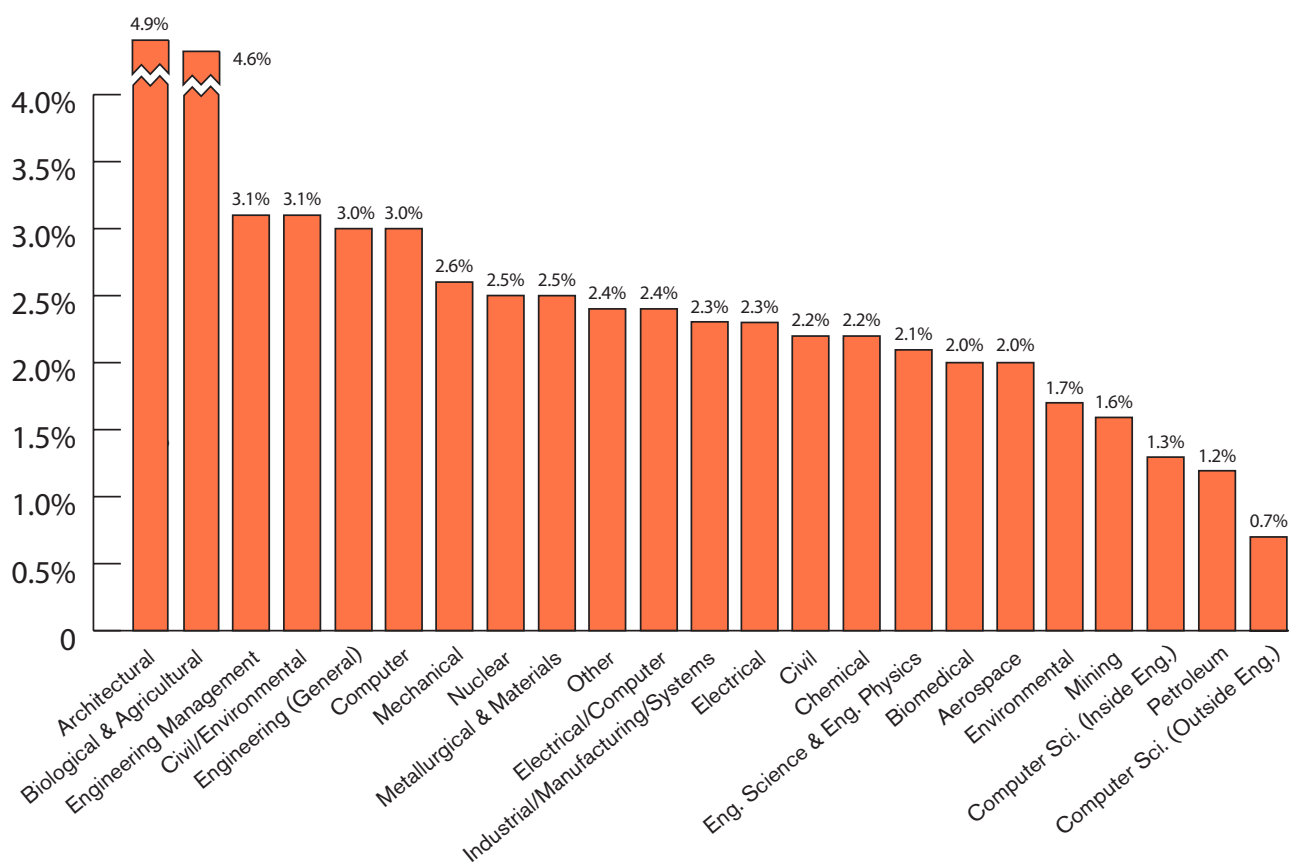
1. Texas A&M University	137
2. Univ. of Illinois, Urbana-Champaign	121
3. Georgia Institute of Technology	120
4. Purdue University	113
5. Arizona State University	105
6. University of Michigan	103
7. The Ohio State University	96
8. Virginia Tech	93
9. Iowa State University	92
10. North Carolina State University	85
10. SUNY, Buffalo	85
12. Pennsylvania State University	82
12. University of Florida	82
14. Michigan State University	79
14. University of Nebraska, Lincoln	79
16. The University of Texas at Arlington	73
17. University of California, San Diego	72
18. University of California, Los Angeles	71
19. Stony Brook University	68
20. University of Southern California	66

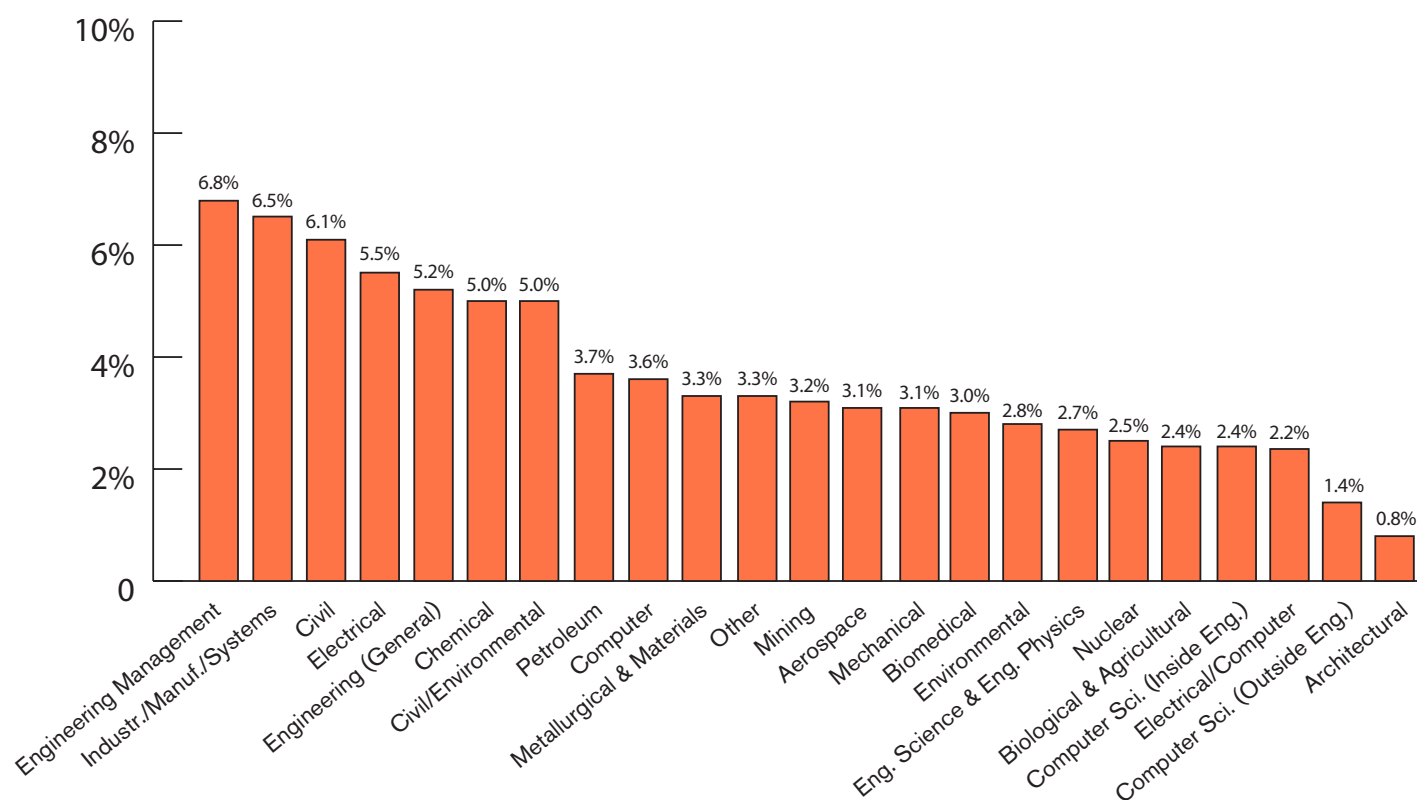
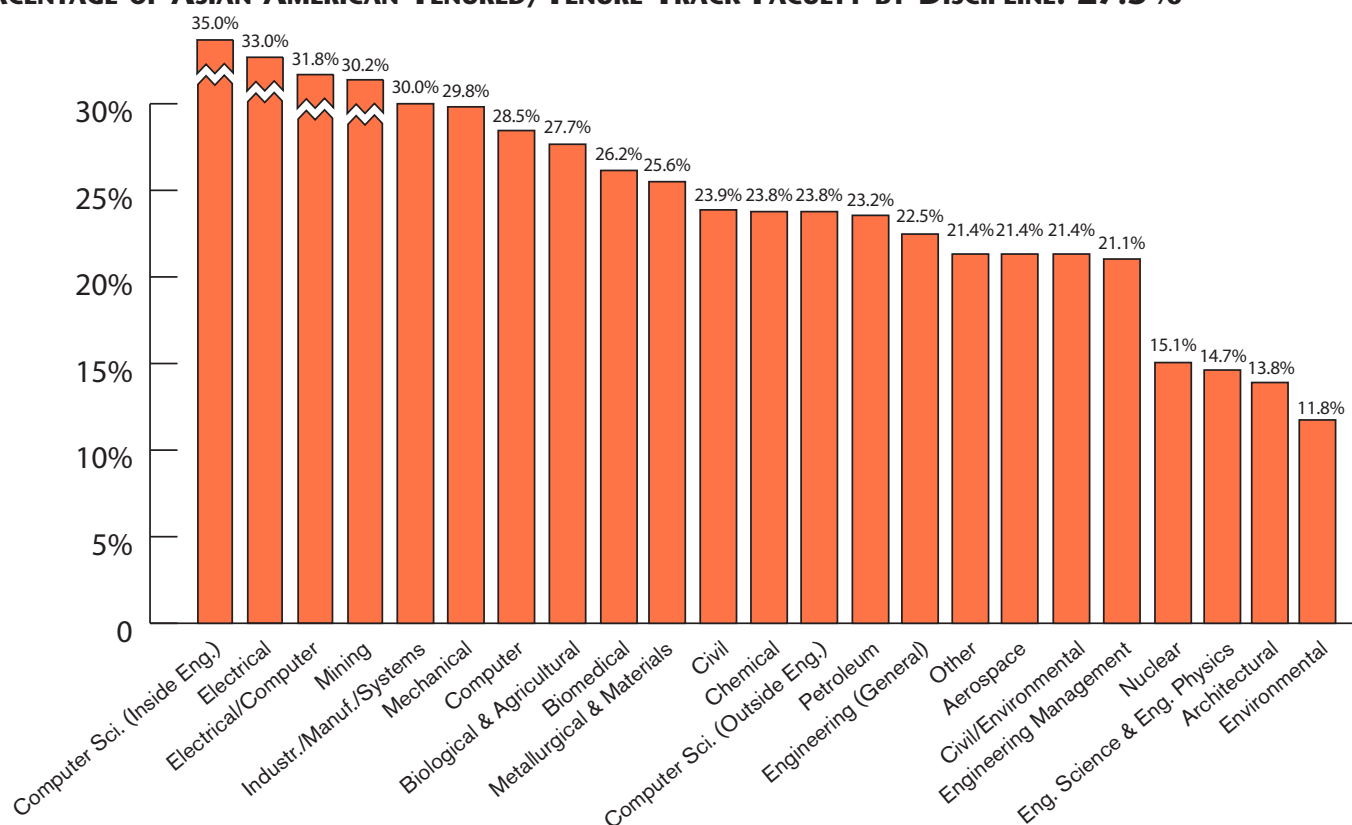
299 schools reported.

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

1. University of Puerto Rico, Mayaguez	150
2. Texas A&M University	32
3. The University of Texas at El Paso	23
4. Massachusetts Institute of Technology	17
4. Univ. of Illinois, Urbana-Champaign	17
6. University of California, Berkeley	16
6. University of California, San Diego	16
6. University of Florida	16
9. Georgia Institute of Technology	15
10. Arizona State University	13
10. The University of Texas at Austin	13
12. Purdue University	12
12. Rochester Institute of Technology	12
12. Stanford University	12
12. Virginia Tech	12
16. New Mexico State University	11
16. Pennsylvania State University	11
18. The Ohio State University	10
18. University of California, Davis	10
18. University of South Florida	10

299 schools reported.

PERCENTAGE OF AFRICAN-AMERICAN TENURED/TENURE-TRACK FACULTY BY DISCIPLINE: 2.3%

PERCENTAGE OF HISPANIC TENURED/TENURE-TRACK FACULTY BY DISCIPLINE: 3.6%**PERCENTAGE OF ASIAN-AMERICAN TENURED/TENURE-TRACK FACULTY BY DISCIPLINE: 27.5%**

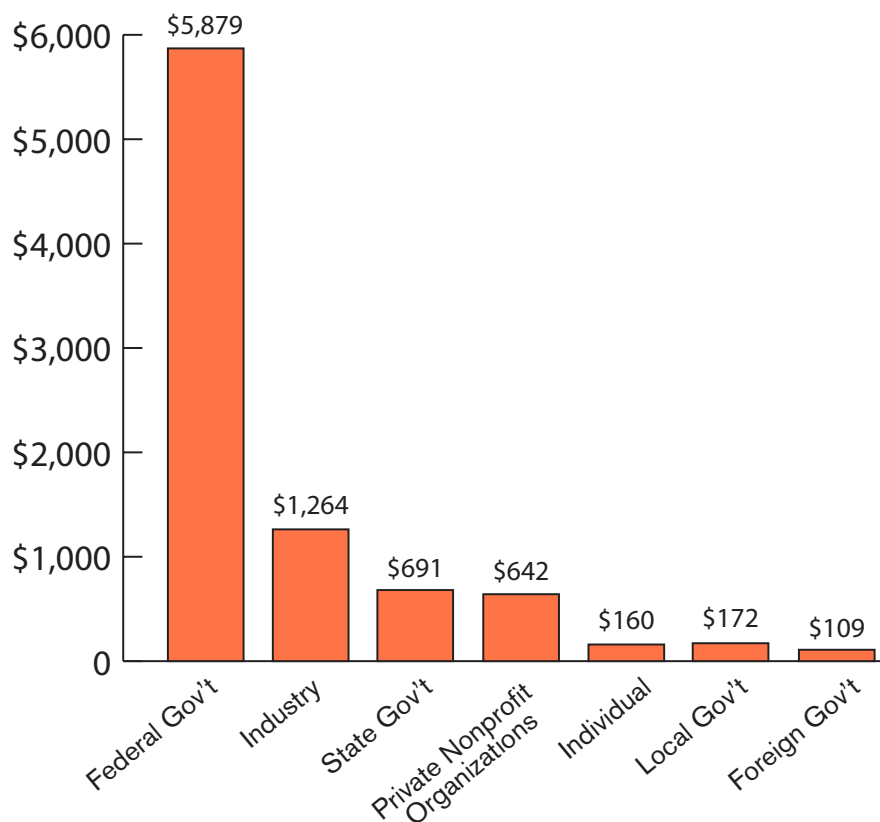
RESEARCH EXPENDITURES BY SCHOOL

(IN MILLIONS)

1. Massachusetts Institute of Technology	\$ 448.3
2. University of Michigan	\$ 295.6
3. Texas A&M University	\$ 282.8
4. Purdue University	\$ 243.0
5. Univ. of Illinois, Urbana-Champaign	\$ 227.6
6. University of California, Berkeley	\$ 208.9
7. Stanford University	\$ 201.2
8. Georgia Institute of Technology	\$ 194.4
9. University of Southern California	\$ 192.1
10. North Carolina State University	\$ 189.0
11. The University of Texas at Austin	\$ 180.8
12. University of California, San Diego	\$ 168.0
13. University of Washington	\$ 151.2
14. University of Maryland, College Park	\$ 140.5
15. The Ohio State University	\$ 128.8
16. Virginia Tech	\$ 128.3
17. University of Minnesota - Twin Cities	\$ 122.2
18. The Johns Hopkins University	\$ 121.1
19. University of Wisconsin-Madison	\$ 120.4
20. Cornell University	\$ 118.3
21. Northwestern University	\$ 114.1
22. University of Dayton	\$ 109.5
23. Univ. of California, Santa Barbara	\$ 106.6
24. California Institute of Technology	\$ 106.0
25. Carnegie Mellon University	\$ 103.9
26. University of Pennsylvania	\$ 103.5
27. Arizona State University	\$ 103.3
28. Pennsylvania State University	\$ 100.1
29. University of Colorado Boulder	\$ 97.6
30. University of California, Los Angeles	\$ 97.0
31. University of Idaho	\$ 96.0
32. Iowa State University	\$ 94.5
33. Boston University	\$ 92.7
34. Duke University	\$ 92.4
35. University of Rochester	\$ 89.3
36. University of Pittsburgh	\$ 85.3
37. University of California, Davis	\$ 83.9
38. University of Utah	\$ 79.4
39. University of California, Irvine	\$ 74.7
40. University of Virginia	\$ 70.9
41. University of Tennessee, Knoxville	\$ 70.7
42. Colorado State University	\$ 70.3
43. William Marsh Rice University	\$ 69.6
44. University of Florida	\$ 69.3
45. Vanderbilt University	\$ 66.7
46. Princeton University	\$ 63.0
47. University of California, Riverside	\$ 61.9
48. Auburn University	\$ 61.7
49. SUNY, Buffalo	\$ 59.0
50. Northeastern University	\$ 57.9

206 schools reported.

RESEARCH EXPENDITURES BY SOURCE IN MILLIONS OF DOLLARS: \$8,917



COMPUTER SCIENCE RESEARCH EXPENDITURES LOCATED OUTSIDE OF ENGINEERING BY SCHOOL

(IN MILLIONS)

1. Carnegie Mellon University	\$91.9
2. Georgia Institute of Technology	\$28.6
3. The University of Texas at Austin	\$23.6
4. University of Wisconsin-Madison	\$21.6
5. University of Maryland, College Park	\$21.4
6. Rutgers University	\$16.7
7. Purdue University	\$16.1
8. University of Massachusetts Amherst	\$15.8
9. University of California, Irvine	\$15.3
10. Northeastern University	\$13.5
11. The University of Alabama in Huntsville	\$11.9
12. Rensselaer Polytechnic Institute	\$ 6.0
13. Brown University	\$ 5.1
14. Duke University	\$ 4.8
15. University of Houston	\$ 4.7
16. Worcester Polytechnic Institute	\$ 3.6
17. University of Arizona	\$ 3.1
18. New Jersey Institute of Technology	\$ 3.0
19. Boston University	\$ 2.9
19. Dartmouth College	\$ 2.9

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

1. University of Central Florida	9.5
2. California Polytechnic State University	9.1
3. California State Poly. U., Pomona	8.5
4. California State University, Long Beach	8.3
5. Florida International University	8.1
6. San Diego State University	8.0
7. Univ. of Maryland, Baltimore County	7.6
8. California State University, Northridge	7.5
9. Humboldt State University	7.4
10. Worcester Polytechnic Institute	7.3
11. University of California, San Diego	7.1
12. California State University, Los Angeles	7.0
12. University of Missouri	7.0
12. Kennesaw State University	7.0
13. East Carolina University	6.9
14. San Francisco State University	6.8
15. New York Institute of Technology	6.7
16. Wentworth Institute of Technology	6.6
17. Gonzaga University	6.3
17. Louisiana State University	6.3

*Minimum of 50 degrees awarded. 264 schools fit the criteria for this table. Faculty refers to teaching faculty.

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

1. California Institute of Technology	1.5
2. Howard University	1.7
3. George Washington University	1.8
4. Brown University	1.9
4. University of Alaska Fairbanks	1.9
6. Franklin W. Olin College of Eng.	2.0
6. Tulane University	2.0
8. Massachusetts Institute of Technology	2.1
8. Gannon University	2.1
8. Univ. of California, Santa Barbara	2.1
8. Northwestern University	2.1
8. The Johns Hopkins University	2.1
13. Carnegie Mellon University	2.3
13. Bucknell University	2.3
15. California Baptist University	2.4
15. University of Georgia	2.4
15. Yale University	2.4
15. West Virginia University Institute of Technology	2.4
19. Duke University	2.5
19. Univ. of Tennessee, Chattanooga	2.5

*Minimum of 50 degrees awarded. 264 schools fit the criteria for this table. Faculty refers to teaching faculty.

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

1. University of Dayton	\$ 4.56
2. Wichita State University	\$ 2.66
3. University of Rochester	\$ 1.98
4. University of Alabama in Huntsville	\$ 1.95
5. New Jersey Institute of Technology	\$ 1.83
6. University of California, Irvine	\$ 1.49
7. Colorado State University	\$ 1.41
8. University of Pennsylvania	\$ 1.38
9. Massachusetts Institute of Technology	\$ 1.34
10. Worcester Polytechnic Institute	\$ 1.31
11. Univ. of California, Santa Barbara	\$ 1.27
12. Boston University	\$ 1.25
12. University of Washington	\$ 1.25
14. University of Virginia	\$ 1.24
15. The University of Iowa	\$ 1.20
16. Vanderbilt University	\$ 1.19
17. University of Michigan	\$ 1.16
18. University of Southern California	\$ 1.15
19. Texas A&M University	\$ 1.14
19. California Institute of Technology	\$ 1.14
21. Duke University	\$ 1.13
21. Mississippi State University	\$ 1.13
23. University of Pittsburgh	\$ 1.09
24. University of California, San Diego	\$ 1.05
25. North Carolina State University	\$ 1.04
25. Harvard University	\$ 1.04
25. The Johns Hopkins University	\$ 1.04
28. University of Maryland, College Park	\$ 1.02
29. University of California, Riverside	\$ 9.98
30. The University of Texas at El Paso	\$ 9.90
31. Yale University	\$ 9.77
32. Oregon State University	\$ 9.43
33. Univ. of Illinois, Urbana-Champaign	\$ 9.29
34. Northwestern University	\$ 9.28
35. Iowa State University	\$ 9.09
36. University of Utah	\$ 9.02
37. University of Wisconsin-Madison	\$ 8.98
38. NYU Tandon School of Engineering	\$ 8.93
39. University of California, Berkeley	\$ 8.89
40. Purdue University	\$ 8.56
41. Tufts University	\$ 8.51
42. Rutgers University	\$ 8.50
43. University of California-Santa Cruz	\$ 8.26
44. Auburn University	\$ 8.22
45. Brown University	\$ 7.89
46. University of Tennessee, Knoxville	\$ 7.85
47. Northeastern University	\$ 7.82
48. Michigan Technological University	\$ 7.78
49. SUNY, Buffalo	\$ 7.77
50. The Ohio State University	\$ 7.71

*Minimum of 15 degrees awarded. 140 schools fit this criterion. Faculty refers to teaching faculty.

HIGHEST PERCENTAGE OF DOCTORAL DEGREES TO FOREIGN NATIONALS BY SCHOOL*

1. Florida International University	86.7%
2. SUNY, Buffalo	84.2%
3. University of Houston	83.3%
4. Stony Brook University	78.3%
5. Lehigh University	77.3%
5. West Virginia University	77.3%
7. University of Oklahoma	77.1%
8. Louisiana State University	74.6%
9. Kansas State University	72.4%
10. University of Cincinnati	72.1%
11. The University of Akron	71.7%
12. Northeastern University	71.6%
13. Oklahoma State University	71.4%
14. Iowa State University	71.2%
15. University of Kentucky	70.4%
16. SUNY, Binghamton	70.0%
16. The University of Texas at Dallas	70.0%
18. University of Nebraska, Lincoln	69.5%
19. The University of Texas at Arlington	69.4%
20. Texas A&M University	69.2%

*Minimum of 25 doctoral degrees awarded. 116 schools fit this criterion.

LOWEST PERCENTAGE OF DOCTORAL DEGREES TO FOREIGN NATIONALS BY SCHOOL*

1. Air Force Institute of Technology	7.5%
2. University of Colorado Boulder	28.8%
3. George Washington University	29.0%
4. Colorado State University	30.0%
5. University of California-Santa Cruz	31.4%
6. University of Miami	32.0%
7. Colorado School of Mines	33.0%
8. The University of New Mexico	38.0%
8. University of California, Irvine	38.0%
10. University of Washington	38.8%
11. The Johns Hopkins University	39.3%
12. Drexel University	40.0%
13. University of California, Berkeley	41.3%
14. University of California, Davis	41.5%
15. Ohio University	42.3%
16. Vanderbilt University	42.9%
17. Massachusetts Institute of Technology	43.4%
18. University of Notre Dame	43.7%
19. Univ. of California, Santa Barbara	44.0%
20. Tufts University	45.2%

*Minimum of 25 doctoral degrees awarded. 116 schools fit this criterion.

BACHELOR'S DEGREES BY DISCIPLINE 2007–2016

Bachelor's Degrees	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Aerospace Engineering	2,788	2,930	3,057	3,218	3,459	3,668	3,595	3,695	3,803	3,781
Architectural Engineering	625	646	723	753	743	763	660	607	568	618
Biological/Agricultural Eng.	659	623	631	719	796	871	924	1,031	1,100	1,160
Biomedical Engineering	2,969	3,237	3,644	3,670	4,066	4,374	4,709	5,119	5,683	6,177
Chemical Engineering	4,551	4,850	5,185	5,948	6,487	7,245	7,717	8,110	9,090	9,864
Civil Engineering	9,402	10,132	10,508	11,027	12,154	12,309	12,464	12,333	11,900	11,464
Civil/Environmental Eng. ¹	445	464	558	591	709	751	953	881	1,000	940
Computer Engineering	4,046	3,808	3,394	3,340	3,381	3,688	3,906	4,201	4,881	5,531
Computer Science (Inside Eng.)	6,446	5,964	5,652	6,049	6,708	7,371	8,184	9,328	10,970	13,483
Electrical Engineering	11,467	10,790	9,859	9,634	9,942	10,102	10,662	11,261	11,385	11,892
Electrical/Computer Eng.	2,425	2,216	2,194	2,175	2,153	2,426	2,518	2,827	3,429	2,860
Engineering (General)	1,246	1,160	1,246	1,335	1,465	1,192	1,554	1,406	1,394	1,338
Engineering Management	274	331	309	336	315	434	418	436	527	506
Engr. Science and Engr. Physics	460	472	431	526	496	562	524	574	545	674
Environmental Engineering	454	486	503	587	698	905	994	1,012	1,124	1,236
Industr./Manuf./Systems Eng.	3,503	3,367	3,510	3,744	3,727	4,107	4,272	4,877	5,291	5,649
Mechanical Engineering	16,701	17,324	17,375	18,391	19,241	20,369	21,707	23,675	25,436	26,816
Metallurgical/Materials Eng.	963	1,095	1,035	1,152	1,161	1,280	1,415	1,440	1,671	1,858
Mining Engineering	119	153	190	191	213	236	231	324	335	308
Nuclear Engineering	402	415	378	414	469	565	614	584	544	521
Other Engineering Disciplines	2,942	3,211	3,351	3,794	3,730	3,956	4,260	4,202	4,517	4,386
Petroleum Engineering	428	496	654	753	888	1,002	1,079	1,250	1,465	1,659
TOTAL	73,315	74,170	74,387	78,347	83,001	88,176	93,360	99,173	106,658	112,721

ENROLLMENT BY CLASS 2007–2016

UNDERGRADUATE ENROLLMENT	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Freshmen	106,110	110,543	113,588	118,831	122,820	133,082	141,143	143,063	149,473	137,767
Sophomores	83,753	88,227	94,111	97,909	102,125	110,011	120,328	124,120	132,769	129,828
Juniors	80,647	86,835	92,758	97,519	102,102	108,862	118,600	128,228	135,804	136,396
Seniors	115,180	117,586	127,046	136,426	144,683	152,735	163,871	174,519	192,415	197,235
TOTAL FULL TIME	385,690	403,191	427,503	450,685	471,730	504,690	543,942	569,930	610,461	601,226
TOTAL PART TIME	30,971	31,828	32,085	34,903	38,470	42,724	45,644	48,781	54,450	53,619

MASTER'S DEGREES BY DISCIPLINE 2007–2016

MASTERS DEGREES	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Aerospace Engineering	1,056	1,096	1,075	1,166	1,398	1,443	1,308	1,410	1,380	1,393
Architectural Engineering	116	119	121	131	125	150	138	128	128	143
Biological/Agricultural Eng.	149	155	171	197	213	234	244	227	237	223
Biomedical Engineering	1,156	1,221	1,396	1,447	1,558	1,890	1,997	1,918	2,197	2,270
Chemical Engineering	1,036	1,051	1,084	1,162	1,354	1,440	1,456	1,545	1,716	1,788
Civil Engineering	3,368	3,437	3,659	4,088	4,739	5,002	4,778	4,958	4,897	4,818
Civil/Environmental Eng. ¹	178	223	249	282	279	570	754	618	739	914
Computer Engineering	1,479	1,662	1,880	1,712	1,783	1,963	1,883	2,081	2,093	2,469
Computer Science (Inside Eng.)	4,913	4,924	5,373	5,230	5,497	5,756	6,182	6,325	8,359	10,038
Electrical Engineering	5,026	5,735	6,137	6,345	6,666	6,572	6,305	6,536	7,768	8,513
Electrical/Computer Eng.	3,532	3,757	3,682	3,459	3,799	3,824	3,756	4,019	4,840	5,044
Engineering (General)	602	612	729	745	906	666	623	645	557	472
Engineering Management	2,114	2,036	2,240	2,595	2,484	2,665	2,690	2,835	3,020	3,064
Engr. Science/Engr. Physics	205	194	170	248	216	205	209	186	220	175
Environmental Engineering	552	524	552	639	724	788	805	871	898	949
Industr./Manuf./Systems Eng.	2,565	2,669	2,986	2,990	3,359	3,362	3,214	3,514	3,538	4,102
Mechanical Engineering	4,485	4,647	4,757	5,066	5,915	6,237	6,261	6,529	7,169	7,821
Metallurgical/Materials. Eng.	702	715	771	771	852	951	1,049	1,155	1,119	1,261
Mining Engineering	49	54	51	29	47	49	63	49	81	72
Nuclear Engineering	255	268	264	305	324	366	375	316	359	326
Other Engineering Disciplines	3,232	3,655	4,063	4,152	4,320	4,852	5,011	5,407	5,594	6,237
Petroleum Engineering	213	232	222	264	382	387	382	418	524	504
TOTAL	36,983	38,986	41,632	43,023	46,940	49,372	49,483	51,690	57,433	62,596

DOCTORAL DEGREES BY DISCIPLINE 2007–2016

DOCTORAL DEGREES	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Aerospace Engineering	259	252	276	254	280	317	351	368	350	369
Architectural Engineering	8	11	7	7	6	8	9	15	21	53
Biological/Agricultural Eng.	65	88	80	87	114	135	131	149	128	130
Biomedical Engineering	536	662	722	733	812	843	920	954	1006	1,011
Chemical Engineering	898	888	836	905	863	849	866	993	1062	1,043
Civil Engineering	770	706	707	681	747	714	806	817	882	820
Civil/Environmental Eng. ¹	51	100	87	92	78	115	134	174	188	252
Computer Engineering	193	216	230	248	229	248	268	211	251	275
Computer Science (Inside Eng.)	867	847	863	849	880	918	971	985	977	966
Electrical Engineering	1,064	1,006	959	992	1,030	1,126	1,129	1,152	1,105	1,111
Electrical/Computer Eng.	1,234	1,169	1,055	1,038	1,185	1,197	1,182	1,314	1,420	1,273
Engineering (General)	56	64	65	57	70	89	111	124	72	97
Engineering Management	37	35	44	46	43	51	74	64	74	72
Engr. Science/Engr. Physics	143	133	150	160	155	139	153	153	147	132
Environmental Engineering	133	138	143	134	154	134	156	179	186	197
Industr./Manuf./Systems Eng.	398	401	381	352	383	378	415	478	377	414
Mechanical Engineering	1,161	1,140	1,216	1,078	1,225	1,323	1,454	1,502	1,646	1,561
Metallurgical/Materials. Eng.	584	617	598	603	632	707	739	740	812	896
Mining Engineering	15	13	12	6	4	9	22	17	24	25
Nuclear Engineering	88	103	87	114	115	112	135	162	142	157
Other Engineering Disciplines	447	447	511	517	521	557	656	677	739	724
Petroleum Engineering	48	50	54	42	56	66	82	86	93	76
TOTAL	9,055	9,086	9,083	8,995	9,582	10,035	10,764	11,314	11,702	11,654

UNDERGRADUATE ENROLLMENT BY DISCIPLINE 2007–2016

UNDERGRAD ENROLLMENT	2007		2008		2009		2010	
	Full Time	Part Time	Full Time	Part Time	Full Time	Part Time	Full Time	Part Time
Aerospace Engineering	16,551	633	17,561	664	18,108	601	18,482	785
Architectural Engineering	4,205	199	4,033	130	3,618	179	3,677	183
Biological Eng. and Agricultural Eng.	3,103	103	3,191	78	3,778	96	3,911	127
Biomedical Engineering	16,153	518	17,798	519	19,558	504	21,166	556
Chemical Engineering	25,852	1,431	28,636	1,326	32,050	1,476	34,506	1,563
Civil Engineering	47,296	3,709	50,167	4,430	53,436	4,784	53,520	5,008
Civil/Environmental Engineering ¹	2,437	259	2,546	247	2,929	235	3,185	302
Computer Science (Inside Eng.)	27,348	4,202	27,766	4,081	29,959	4,092	32,921	4,690
Electrical/Computer Engineering	72,353	8,389	73,343	8,158	75,061	7,952	77,270	8,427
Engineering (General)	21,944	1,039	22,856	1,186	22,903	1,226	25,035	1,022
Engineering Management	1,034	31	1,224	23	1,036	24	1,005	36
Engr. Science and Engr. Physics	2,510	105	2,643	99	2,497	84	2,618	66
Environmental Engineering	2,761	171	3,180	308	4,027	338	4,549	360
Industr./Manuf./Systems Eng.	12,921	1,019	13,476	1,184	14,224	1,033	14,751	1,151
Mechanical Engineering	82,246	6,843	85,249	7,089	91,856	7,082	96,164	7,687
Metallurgical and Matrls. Eng.	4,019	210	4,312	164	4,520	146	4,970	173
Mining Engineering	836	51	881	51	974	68	1,039	80
Nuclear Engineering	1,771	64	1,832	41	2,207	60	2,399	89
Other Engineering Disciplines	36,955	1,897	38,468	1,922	40,536	1,912	44,914	2,311
Petroleum Engineering	3,395	98	4,029	128	4,226	193	4,603	287
TOTAL	385,690	30,971	403,191	31,828	427,503	32,085	450,685	34,903

2011		2012		2013		2014		2015		2016	
Full Time	Part Time	Full Time	Part Time	Full Time	Part Time	Full Time	Part Time	Full Time	Part Time	Full Time	Part Time
18,909	879	19,402	897	19,216	879	19,973	966	20,331	1,075	21,817	1,144
3,381	161	3,195	164	3,234	171	3,117	120	3,135	144	3,040	187
4,291	151	4,245	172	4,796	198	5,233	178	5,356	239	5,542	250
23,403	664	25,884	736	27,671	950	28,434	990	31,534	1,116	32,942	1,471
36,499	1,819	39,448	2,053	42,962	2,169	45,813	2,414	48,879	2,732	48,139	2,719
53,215	4,940	53,082	4,995	52,379	4,888	51,659	4,791	53,486	5,085	48,778	4,276
3,163	313	3,773	273	4,332	343	4,262	347	4,278	372	4,741	482
36,983	5,347	42,296	6,100	48,685	7,303	55,482	8,170	65,244	9,939	72,689	10,854
80,607	8,867	85,113	9,470	91,336	9,951	93,955	10,502	102,519	11,493	98,632	10,853
27,159	1,159	27,981	1,276	32,604	1,435	33,220	1,600	30,681	1,848	28,750	1,910
1,114	36	1,528	62	1,631	118	1,727	267	2,133	376	2,011	416
2,650	96	3,174	173	3,011	220	3,166	204	3,361	258	3,464	247
4,788	363	4,970	415	5,118	394	5,121	357	5,504	387	5,888	378
15,429	1,426	16,851	1,587	18,310	1,623	19,517	1,669	20,890	1,800	20,674	1,469
101,476	9,016	110,379	10,096	120,083	10,694	127,094	11,457	138,437	12,659	134,765	12,316
5,273	182	5,589	230	6,074	253	6,426	266	7,262	323	7,260	323
1,112	63	1,174	65	1,281	75	1,137	89	985	83	754	69
2,529	99	2,468	112	2,219	118	2,026	113	2,101	124	2,069	112
44,647	2,584	47,905	3,370	51,357	3,254	53,447	3,451	56,113	3,542	52,914	3,481
5,102	305	6,233	478	7,643	623	7,643	623	8,232	855	6,397	662
471,730	38,470	504,690	42,724	543,942	45,659	568,452	48,574	610,461	54,450	601,266	53,619

MASTER'S ENROLLMENT BY DISCIPLINE 2007–2016

MASTER'S ENROLLMENT	2007		2008		2009		2010	
	Full Time	Part Time	Full Time	Part Time	Full Time	Part Time	Full Time	Part Time
Aerospace Engineering	1,893	600	1,996	672	2,125	849	2,396	952
Architectural Engineering	100	27	107	30	139	21	198	29
Biological Eng. and Agricultural Eng.	343	48	395	59	438	48	464	88
Biomedical Engineering	1,781	674	1,890	678	1,911	693	2,265	701
Chemical Engineering	1,391	682	1,507	648	1,538	696	1,794	709
Civil Engineering	5,193	2,637	5,297	2,882	6,326	3,130	6,888	3,414
Civil/Environmental Engineering ¹	280	166	421	165	479	165	491	200
Computer Science (Inside Eng.)	7,311	4,397	7,161	4,507	7,274	4,675	7,873	4,727
Electrical/Computer Engineering	17,013	8,919	17,041	8,925	17,664	9,346	16,975	9,485
Engineering (General)	812	937	798	1,232	799	1,073	798	1,433
Engineering Management	1,755	3,330	2,172	3,051	2,430	3,397	2,376	3,327
Engr. Science and Engr. Physics	192	96	195	106	215	94	194	131
Environmental Engineering	718	451	787	481	990	514	1,121	574
Industr./Manuf./Systems Eng.	4,033	1,781	4,195	2,127	4,272	2,312	4,156	2,399
Mechanical Engineering	7,352	3,678	7,857	3,735	8,511	4,220	8,856	4,582
Metallurgical and Matrls. Eng.	965	325	1,019	357	1,144	360	1,253	316
Mining Engineering	83	40	93	29	90	36	83	17
Nuclear Engineering	443	156	449	152	460	176	509	201
Other Engineering Disciplines	3,629	4,757	4,104	4,780	4,409	5,518	4,634	5,818
Petroleum Engineering	429	156	532	183	634	211	683	225
TOTAL	55,716	33,857	58,016	34,799	61,848	37,534	64,007	39,328

2011		2012		2013		2014		2015		2016	
Full Time	Part Time	Full Time	Part Time	Full Time	Part Time	Full Time	Part Time	Full Time	Part Time	Full Time	Part Time
2,505	1,038	2,341	937	2,239	953	2,381	1,016	2,356	1,125	2,188	1,094
198	55	231	73	229	61	206	50	157	55	140	126
461	95	415	109	394	97	423	74	398	101	366	91
2,440	717	2,398	796	2,545	756	2854	800	2,986	784	3,076	772
1,827	720	1,824	643	2,099	681	2,176	755	2,466	888	2,375	745
6,914	3,600	6,790	3,526	6,854	3,415	7,067	3375	7,034	3,521	6,647	3,289
549	194	896	366	940	447	924	310	915	343	1,320	497
8,187	4,831	8,778	4,652	10942	4822	13,652	5,300	15,005	5,620	15,622	5,493
16,626	8,695	17,392	8,292	20463	8070	23,652	8,641	24,279	9,204	21,223	8,445
915	1,346	733	895	1,009	717	947	641	764	618	659	593
2,347	3,137	2,678	2,934	2,865	2,908	3,071	3,226	3,579	3,422	3,357	3,231
248	106	206	98	199	80	190	68	216	90	136	57
1,152	624	1,189	668	1,235	687	1,147	686	1,200	652	1,194	648
3,860	2,553	4,053	2,603	4389	2831	5,012	2,577	5,753	2,785	5,827	2,810
8,632	4,693	8,690	4,691	9,669	4,720	10,848	4,836	11,701	5,061	11,633	5,296
1,293	405	1,326	448	1,389	456	1,488	521	1,679	589	1,818	587
120	23	101	62	124	33	150	57	129	56	93	50
581	197	463	241	424	170	437	193	423	178	335	169
4,770	6,166	5,155	6,655	5538	5998	5,989	5,634	7,214	6,377	8,041	6,052
672	265	763	260	823	363	945	380	798	398	722	342
64,297	39,460	66,422	38,949	74,369	38,265	83,559	39,140	89,052	41,867	86,772	40,387

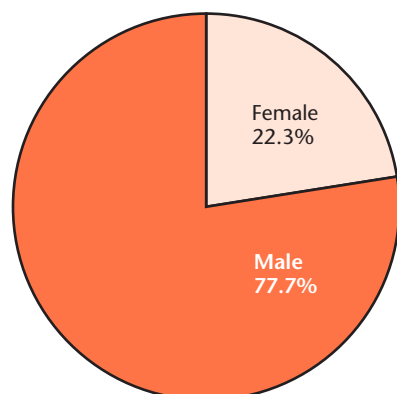
DOCTORAL ENROLLMENT BY DISCIPLINE 2007–2016

DOCTORAL ENROLLMENT	2007		2008		2009		2010	
	Full Time	Part Time	Full Time	Part Time	Full Time	Part Time	Full Time	Part Time
Aerospace Engineering	1,462	195	1,520	183	1,711	202	1,797	199
Architectural Engineering	20	7	34	2	49	4	52	3
Biological Eng. and Agricultural Eng.	476	48	526	63	591	64	641	87
Biomedical Engineering	4,305	363	4,518	376	4,863	426	5,183	418
Chemical Engineering	4,684	296	4,865	289	5,142	333	5,277	348
Civil Engineering	3,704	615	3,587	592	3,961	664	4,302	730
Civil/Environmental Engineering ¹	262	115	375	122	383	126	382	119
Computer Science (Inside Eng.)	5,367	940	5,527	781	5,855	906	6,084	947
Electrical/Computer Engineering	13,435	1,996	13,519	1,862	14,506	1,934	14,964	2,078
Engineering (General)	380	119	370	150	413	158	540	93
Engineering Management	102	159	95	162	112	225	138	228
Engr. Science and Engr. Physics	880	57	926	55	896	66	905	46
Environmental Engineering	771	100	706	122	779	105	849	115
Industr./Manuf./Systems Eng.	1,940	509	1,965	467	2,253	504	2,326	555
Mechanical Engineering	6,070	867	6,454	819	7,183	893	7,767	907
Metallurgical and Matrls. Eng.	3,384	236	3,419	248	3,597	218	3,733	208
Mining Engineering	78	27	64	13	71	12	52	8
Nuclear Engineering	598	49	623	44	660	45	758	47
Other Engineering Disciplines	2,764	670	2,982	656	3,058	641	3,341	677
Petroleum Engineering	221	47	289	80	364	40	413	52
TOTAL	50,903	7,415	52,364	7,086	56,447	7,566	59,504	7,865

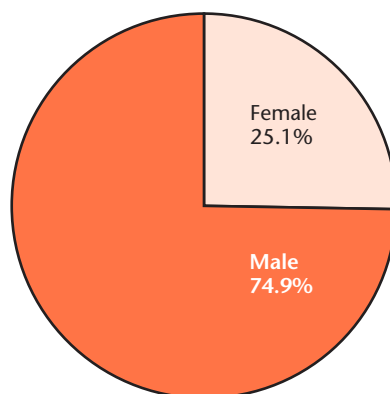
2011		2012		2013		2014		2015		2016	
Full Time	Part Time	Full Time	Part Time	Full Time	Part Time	Full Time	Part Time	Full Time	Part Time	Full Time	Part Time
1,863	206	1,819	229	1,896	219	2,008	194	2,295	242	2,247	227
65	3	69	4	80	4	80	4	92	5	71	4
617	93	664	111	675	92	622	96	730	101	667	91
5,397	452	5,852	533	6,071	462	5,810	493	5,737	548	5,854	487
5,492	340	5,743	360	5,866	317	5,514	347	5,874	341	5,921	309
4,458	630	4,588	704	4,777	589	4,312	551	4,804	594	4,708	571
541	131	666	171	739	199	951	197	1,001	225	1,364	227
6,515	996	6,520	1,079	6,335	1,002	6,410	959	6,704	982	6,764	977
15,012	2,042	15,308	2,140	15,729	2,176	14,744	1,940	16,014	2,065	16,148	2,000
581	131	569	122	537	117	540	114	523	108	590	162
133	249	122	300	151	294	158	298	250	357	268	418
912	54	947	53	928	40	876	50	876	40	852	35
868	96	933	88	919	114	945	89	883	87	975	86
2,320	574	2,190	533	2,233	509	2,139	537	2,238	556	2,089	590
8,085	973	8,256	1,058	8,557	1,059	8,126	1,015	8,929	1,072	9,367	1,072
4,016	233	4,241	259	4,424	245	4,143	245	4,730	270	4,484	265
92	15	92	25	95	21	86	29	89	20	87	20
738	72	831	84	860	75	829	83	951	76	989	71
3,593	685	3,753	753	3,871	772	3,815	699	4,104	826	4,120	765
464	59	411	65	425	56	479	58	531	65	588	59
61,762	8,034	63,574	8,671	65,168	8,362	62,587	7,998	67,355	8,580	68,153	8,436

ENROLLMENT BY GENDER

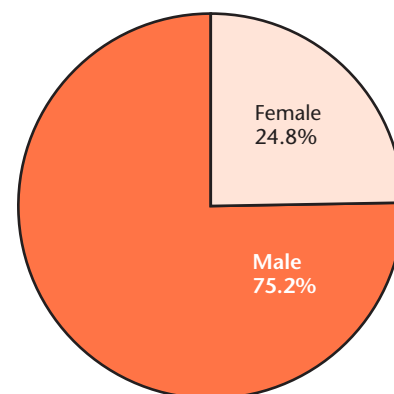
BACHELOR'S



MASTER'S

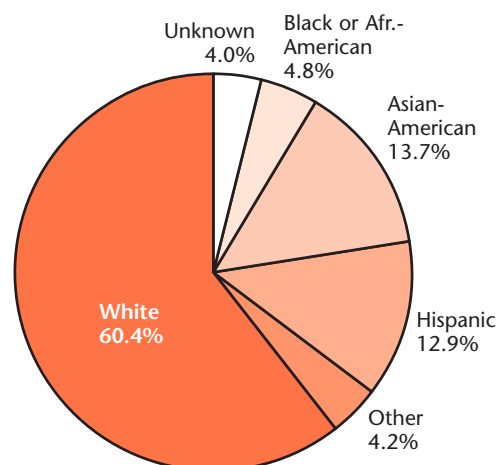


DOCTORAL

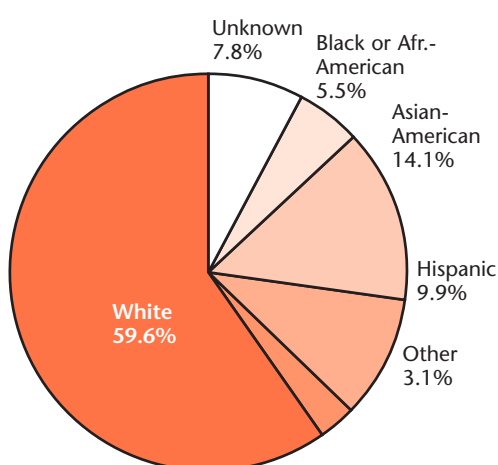


ENROLLMENT BY ETHNICITY*

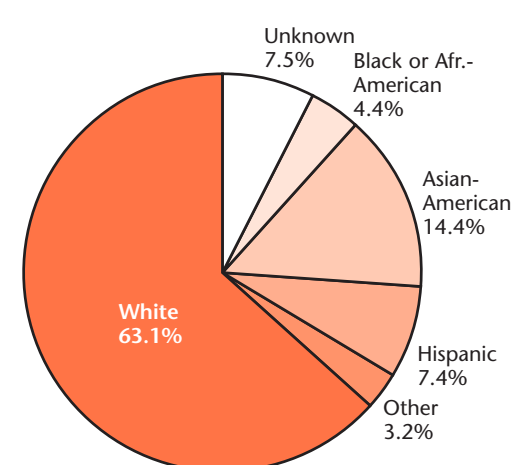
BACHELOR'S



MASTER'S



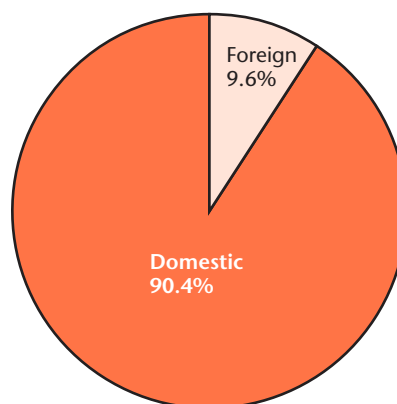
DOCTORAL



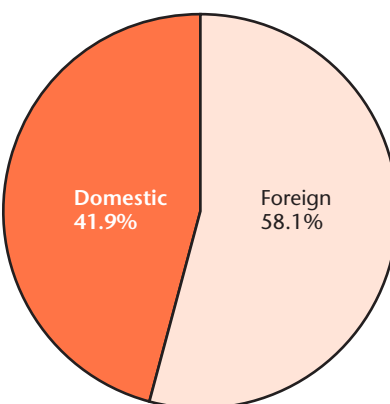
*Calculations for enrollment by ethnicity do not include foreign nationals.

ENROLLMENT BY RESIDENCY

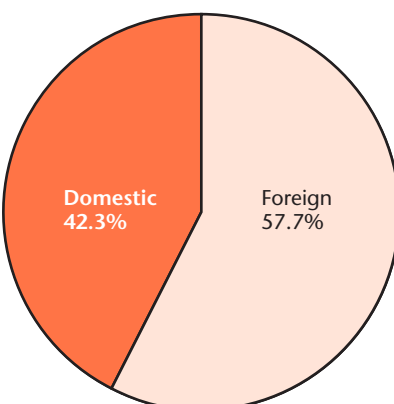
BACHELOR'S



MASTER'S



DOCTORAL



BACHELOR'S TOTAL*
601,266

MASTER'S TOTAL
127,125

DOCTORAL TOTAL
76,589

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

Forty-three Canadian institutions are currently accredited by the Canadian Engineering Accreditation Board. Nine of those institutions participated in the 2016 ASEE Survey of Engineering & Engineering Technology Colleges. The data submitted by these institutions display similar trends as those seen at U.S. institutions. The representation of women is almost identical at the bachelor's and master's level in both countries, while faculty trends for women are also very close.

ENGINEERING BACHELOR'S DEGREES AWARDED BY SCHOOL

1. University of Waterloo	1,136
2. University of Toronto	1,050
3. University of Alberta	810
4. Ecole Polytechnique de Montreal	739
5. McMaster University	644
6. University of Calgary	589
7. Concordia University, Montreal	454
8. University of Ottawa, Faculty of Eng.	385
9. The University of Western Ontario	297

ENGINEERING MASTER'S DEGREES AWARDED BY SCHOOL

1. Concordia University, Montreal	725
2. University of Toronto	680
3. University of Ottawa, Faculty of Eng.	583
4. University of Waterloo	417
5. The University of Western Ontario	309
6. Ecole Polytechnique de Montreal	291
7. McMaster University	217
8. University of Alberta	199
9. University of Calgary	158

ENGINEERING DOCTORAL DEGREES AWARDED BY SCHOOL

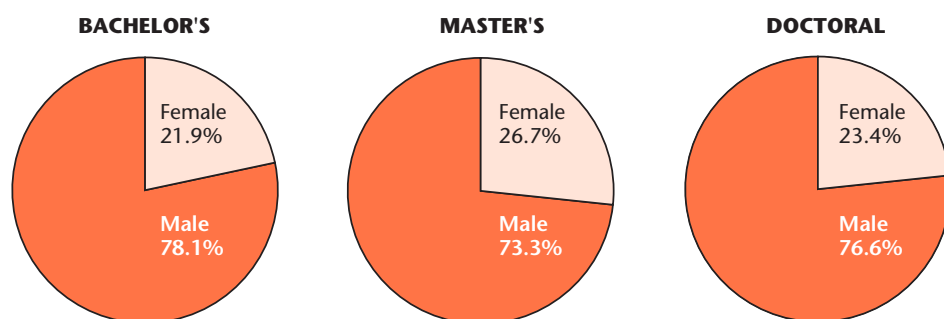
1. University of Toronto	145
2. University of Waterloo	144
3. University of Alberta	122
4. Ecole Polytechnique de Montreal	79
5. McMaster University	69
6. University of Calgary	68
7. The University of Western Ontario	67
8. Concordia University, Montreal	65
9. University of Ottawa, Faculty of Eng.	55

RESEARCH EXPENDITURES BY SCHOOL

(IN MILLIONS)

1. University of Alberta	\$72.9
2. University of Calgary	\$28.7
3. Concordia University, Montreal	\$15.9
4. The University of Western Ontario	\$14.1
5. University of Ottawa, Faculty of Eng.	\$13.6

ENGINEERING DEGREES AWARDED BY GENDER



TENURED/TENURE-TRACK FACULTY MEMBERS BY SCHOOL

1. University of Waterloo	264
2. University of Toronto	234
3. Ecole Polytechnique de Montreal	230
4. University of Alberta	205
5. Concordia University, Montreal	182
6. McMaster University	151
7. University of Calgary	144
8. University of Ottawa, Faculty of Eng.	117
9. The University of Western Ontario	95

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

