

ASEE 2023 Edition

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Engineering & Engineering Technology BY THE NUMBERS

# SASEE AMERICAN SOCIETY FOR ENGINEERING EDUCATION

Founded in 1893, the American Society for Engineering Education (ASEE) is a global society of individual, institutional, and corporate members. ASEE's vision is excellent and broadly accessible education empowering students and engineering professionals to create a better world. We work toward achieving that vision by advancing innovation, excellence, and access at all levels of education for the engineering profession. We engage with engineering faculty, business leaders, college and high school students, parents, and teachers to enhance the engineering workforce of the nation. We are the only professional society addressing opportunities and challenges spanning all engineering disciplines, working across the breadth of academic education including teaching, research, and public service.

- We support education at the institutional level by linking faculty and staff across disciplines to create enhanced student learning and discovery.
- We support education across institutions by identifying opportunities to share proven and promising practices.
- We support education locally, regionally, and nationally by forging and reinforcing connections between academia, business, industry, and government.
- We support discovery and scholarship among education researchers by providing opportunities to share and build upon findings.
- We support innovation by fostering the translation of research into improved practices.
- We support disciplinary technical researchers by disseminating best research management practices.

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#### Profiles of Engineering and Engineering Technology, 2023

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# Engineering & Engineering Technology in 2023

# Introduction

The American Society for Engineering Education (ASEE) has collected data from engineering, computing, and engineering technology programs in its annual Profiles of Engineering and Engineering Technology (Profiles) since 2001. The data collected reflects detailed demographic headcounts for program enrollment, department tenured/tenure-track faculty, and degrees awarded.

# **Technical Definitions and Method**

Profiles of Engineering and Engineering Technology is produced annually in collaboration with institutions with at least one ABET-accredited program in engineering, engineering technology, or computer disciplines.

Race/ethnicity: ASEE collects enrollment, degrees awarded, and tenure-track faculty numbers by the U.S. Department of Education's Integrated Post-Secondary Education Data System (IPEDS) reporting categories for race/ethnicity.

Underrepresented minority: ASEE uses the definition from prior editions of NSF's *Science* and *Engineering Indicators* report (<u>https://ncses.nsf.gov/pubs/nsb20201/glossary</u>): "*this category comprises three racial or ethnic minority groups (blacks or African Americans, Hispanics or Latinos, and American Indians or Alaska Natives) whose representation in S&E education or occupations is smaller than their representation in the U.S. population."* 

### Reporting Periods (Profiles 2023):

Fall 2023: institution enrollments, engineering college enrollments, engineering technology college enrollments, faculty head counts, admission requirements and recommendations, and personnel information. Degrees awarded between July 1, 2022 and June 30, 2023. Research expenditures are based on the most recently completed fiscal year ending in 2023.

Research Expenditures: Institutions report all expenditures associated with grants and contracts specifically budgeted for externally sponsored research and associated programs and expenditures associated with all gifts auditably used for research. Institutions are instructed to include expended funds provided by the following external sources:

- 1. Federal government
- 2. State government

- 3. Foreign government
- 4. Industry
- 5. Non-profit organizations (e.g., foundations)
- 6. Individuals
- 7. Local government

Gender: Institutions can report under IPEDS rules for gender or under an expanded set of options:

- Male/female (IPEDS)
- Male/female/non-binary gender/another gender or unknown (expanded gender)

If an institution chooses the binary gender option spreadsheet, it is reporting data to ASEE as it would be reported to the IPEDS survey. Gender for individuals (student or faculty) that is unknown would be reported in a category (male or female) selected by the institution. Under this option, institutions are instructed to include counts for **all individuals** in the required cells.

Full-time staff: As defined by the institution. The type of appointment at the snapshot determines whether an employee is full-time or part-time. The employee's term of contract is not considered in making the determination of full- or part-time.

Full-time student: Undergraduate: A student enrolled for 12 or more semester credits or 12 or more quarter credits or 24 or more clock hours a week each term

Graduate: A student enrolled for 9 or more semester credits or 9 or a student involved in thesis or dissertation preparation that is considered full-time by the institution.

Non-tenure track, teaching faculty: Persons identified by the institution as such as typically those whose initial assignments are made for the purpose of conducting instructions as a principle activity (or activities). They may hold academic rank titles of professor, associate professor, assistant professor, instructor, lecturer, or the equivalent of any of those academic ranks. Graduate instruction (teaching) and research assistants are not included in this category.

Part-time student: Undergraduate: A student enrolled for either less than 12 semester or quarter hours or less that 24 clock hours a week each term.

Graduate: A student enrolled for less than 9 semester or quarter credits.

Research personnel: An occupational category used to classify persons whose specific assignments customarily are made for the purpose of conducting research. Regardless of title, academic rank, these employees formally spend the majority of their time conducting research (exclude tenure/tenure-track faculty from this count).

Tuition: The amount of money charged to students for instructional services. Tuition may be charged per term, per course, or per credit

Tuition and fees (published charges): The amount of tuition and required fees covering a full academic year most frequently charged to students. These values represent what a typical student would be charged and may not be the same for all students at an institution. If tuition is charged on a per-credit-hour basis, the average full-time credit hour load for an entire academic year is used to estimate average tuition. Required fees include the fixed sum charged that are required of such a large proportion of all students that the student who does not pay the charges is an exception.

# Profiles Data Collection and Reporting in 2023–24

The annual deadline for the Profiles survey submission has been January 31 since 2017, and in past years ASEE received 20 to 30 requests for extensions. Since the start of the pandemic in 2020, however, the ASEE has received over 140 requests annually for extensions and worked with institutions to accept data after the deadline. The data reported in the *Profiles of Engineering & Engineering Technology* publication reflect institutional submissions to ASEE as of October 1, 2024. Institutions submitted corrections or updates after the regular cycle for 2023. Any further corrections will not be reflected in this publication, but in the Engineering Data Management System.

Degrees awarded represent the data reported by the following 223 participating institutions:

Air Force Institute of Technology Alfred University-NY State College of Ceramics Arizona State University Auburn University Baylor University Boise State University Boston University Brigham Young University Brigham Young University - Idaho Brown University Bucknell University California Polytechnic State University-San Luis Obispo California State Polytechnic University-Pomona California State University-Long Beach California State University-Northridge California State University-Sacramento Campbell University Carnegie Mellon University Case Western Reserve University Central Michigan University City College of the City University of New York Clemson University Colorado State University Columbia University Concordia University-Montreal Cornell University Dartmouth College Drexel University **Duke Universitv** East Carolina University Eastern Michigan University Embry Riddle Aeronautical University-Daytona Beach Embry Riddle Aeronautical University-Prescott FAMU-FSU College of Engineering Florida Institute of Technology Florida International University George Mason University Georgia Institute of Technology Gonzaga University Grand Valley State University Harvard University Harvey Mudd College Hofstra University Howard University Indiana University-Purdue University Indianapolis Iowa State University Kansas State University Kennesaw State University Lafavette College Lehigh University Louisiana State University Louisiana Tech University Loyola Marymount University Loyola University Chicago Massachusetts Institute of Technology McMaster University Miami University Michigan State University Milwaukee School of Engineering Mississippi State University Missouri University of Science and Technology New Jersey Institute of Technology New Mexico State University North Carolina A&T State University North Carolina State University North Dakota State University Northeastern University Northwestern University NYU Tandon School of Engineering

Oakland University Ohio Northern University Oklahoma State University Old Dominion University Olin College of Engineering Oregon Institute of Technology Oregon State University Portland State University Princeton University Purdue University Purdue University Polytechnic Institute Rensselaer Polytechnic Institute Rose-Hulman Institute of Technology Rowan University Rutgers-The State University of New Jersey-School of Engineering Saint Louis University San Diego State University San Jose State University Santa Clara University Seattle University Smith College Southern Illinois University Carbondale Southern Illinois University Edwardsville Stevens Institute of Technology Stony Brook University SUNY Polytechnic Institute Swarthmore College Syracuse University Temple University Tennessee Technological University Texas A&M University Texas Tech University The Catholic University of America The Citadel The College of New Jersev The George Washington University The Johns Hopkins University The Ohio State University The Pennsylvania State University The State University of New York at Binghamton The University of Iowa The University of Memphis The University of New Mexico The University of Texas at Arlington The University of Texas at Austin The University of Texas at Dallas The University of Texas at El Paso The University of Texas at San Antonio The University of Texas at Tyler The University of Tulsa The University of Western Ontario Tufts Universitv U.S. Coast Guard Academy Union College Union University

United States Military Academy University at Buffalo-SUNY University of Alabama at Birmingham University of Alaska Anchorage-College of Engineering University of Alaska Fairbanks-College of Engineering and Mines University of Arizona University of Arkansas University of Arkansas at Little Rock University of British Columbia University of Calgary University of California-Berkeley University of California-Davis University of California-Irvine University of California-Los Angeles University of California-Merced University of California-Riverside University of California-San Diego University of California-Santa Barbara University of California-Santa Cruz University of Central Florida University of Cincinnati University of Colorado Boulder University of Colorado Denver University of Connecticut University of Dayton University of Delaware University of Detroit Mercy University of Florida University of Georgia University of Hawaii at Manoa University of Houston University of Idaho University of Illinois at Chicago University of Illinois at Urbana-Champaign University of Kansas University of Kentucky University of Louisiana at Lafayette University of Louisville University of Maine University of Maryland-Baltimore County University of Maryland-College Park University of Massachusetts Amherst University of Massachusetts Lowell University of Michigan University of Michigan-Dearborn University of Minnesota -Twin Cities

University of Missouri University of Missouri - Kansas City University of Nebraska-Lincoln University of Nevada-Las Vegas University of Nevada-Reno University of New Hampshire University of North Carolina at Charlotte University of North Texas University of Notre Dame University of Oklahoma-Gallogly College of Engineering University of Pennsylvania University of Pittsburgh University of Puerto Rico-Mayaguez Campus University of Rhode Island University of Rochester University of San Diego University of South Alabama University of South Carolina University of South Florida University of Southern California University of Tennessee-Knoxville University of Texas of the Permian Basin University of the District of Columbia University of the Pacific University of Utah University of Vermont University of Virginia University of Waterloo University of Wisconsin-Madison University of Wisconsin-Milwaukee Utah State University Valparaiso University Vanderbilt University Villanova Universitv Virginia Commonwealth University Virginia Polytechnic Institute and State Universitv Washington State University Washington University in St. Louis Wayne State University West Virginia University Western Michigan University Wichita State University William Marsh Rice University Worcester Polytechnic Institute Wright State University

Institutions that did not participate but reported at least one degree awarded in 2022-23 to the Integrated Postsecondary Education Data System (IPEDS) were reported using data for the same period reported to the federal government. Included in this were institutions that had at least one ABET accredited program at their institution. All

engineering, engineering technology and computer science degrees awarded were integrated into this data. Computer Science degrees awarded at non-participating institutions were uniformly categorized as "Computer Science (outside engineering)". The following institutions did not participate in the 2023 data collection for Profiles and their data were imported from IPEDS for 2023 degrees awarded:

Alabama A & M University Anderson University Andrews University Arkansas Tech University Baker College **Bates College Benedictine College** Bethune-Cookman University **Bob Jones University** California Baptist University California State University-Bakersfield California State University-Chico California State University-East Bay California State University-Fresno California State University-Northridge California State University-San Bernardino Capitol Technology University Carroll College Central Connecticut State University **Christian Brothers University** Christopher Newport University College of Staten Island CUNY **CUNY** City College Eastern Illinois University Eastern Washington University Elizabethtown College Fairfield University Fairleigh Dickinson University-Metropolitan Campus Ferris State University Florida Agricultural and Mechanical University Florida Atlantic University Florida Gulf Coast University Florida International University Florida Polytechnic University Fort Lewis College Francis Marion University Frostburg State University Gannon University Geneva College Georgia Institute of Technology-Main Campus Georgia Southern University Hampton University Harding University Hope College Idaho State University

Illinois Institute of Technology Indiana Institute of Technology **Jackson State University** James Madison University Lake Superior State University Lamar University Lawrence Technological University LeTourneau University Liberty University Lipscomb University Loras College Loyola University Maryland Maine Maritime Academy Manhattan College Marietta College Marshall University Massachusetts Maritime Academy McNeese State University Merrimack College Michigan Technological University Middle Tennessee State University Midwestern State University Minnesota State University-Mankato Mississippi College Monmouth University Montana Technological University Mount Vernon Nazarene University Murray State University Muskingum University Navajo Technical University New Mexico Institute of Mining and Technology Norfolk State University North Carolina State University at Raleigh Northern Arizona University Northern Illinois University Northwest Nazarene University Norwich University Oklahoma Christian University Olivet Nazarene University **Oral Roberts University** Pace University Prairie View A & M University Purdue University Fort Wayne Purdue University Northwest Purdue University-Main Campus Quinnipiac University **Rice University** 

**Robert Morris University** Rochester Institute of Technology **Roger Williams University** Saginaw Valley State University Saint Ambrose University Saint Francis University Saint Martin's University San Francisco State University Seattle Pacific University South Dakota School of Mines and Technology Southeast Missouri State University Southern Arkansas University Southern Methodist University Southern New Hampshire University Southern University and A & M College Southern Utah University State University of New York at New Paltz Stephen F Austin State University SUNY Buffalo State SUNY College of Environmental Science and Forestry SUNY Maritime College Sweet Briar College Tarleton State University **Tennessee State University** Texas A & M University-Commerce Texas A & M University-Corpus Christi Texas A & M University-Kingsville Texas A&M University-Texarkana **Texas Christian University** The University of Tennessee-Chattanooga The University of Tennessee-Martin The University of Texas at Tyler The University of Texas Rio Grande Valley The University of West Florida Thomas Jefferson University Trine University Trinity College Trinity University **Tuskegee University** United States Merchant Marine Academy University of Alaska Anchorage University of Bridgeport University of Central Oklahoma

# American Society for Engineering Education

The American Society for Engineering Education is a non-profit association of more than 10,000 engineering faculty members, U.S. and Canadian colleges University of Denver University of Evansville University of Hartford University of Maryland Eastern Shore University of Massachusetts-Boston University of Massachusetts-Dartmouth University of Michigan-Flint University of Minnesota-Duluth University of Missouri-St Louis University of Mount Union University of New Haven University of New Orleans University of North Carolina at Asheville University of North Carolina at Chapel Hill University of North Dakota University of Oklahoma-Norman Campus University of Portland University of Scranton University of South Carolina-Columbia University of South Dakota University of Southern Indiana University of Southern Maine University of Southern Mississippi University of Washington-Tacoma Campus University of Wisconsin-Stevens Point University of Wisconsin-Stout Utah Valley University Vaughn College of Aeronautics and Technology Virginia Military Institute Walla Walla University Webb Institute Weber State University West Texas A & M University West Virginia University Institute of Technology Western Carolina University Western Illinois University Western Kentucky University Western Washington University Wilkes University Winona State University York College of Pennsylvania Youngstown State University

of engineering and engineering technology, corporations, and other organizations dedicated to promoting excellence in engineering and engineering technology education. ASEE, which celebrated its centennial in 1993, plays a key role in developing and promoting policies that will enable engineering education to work with allied branches of science and technology to meet the new challenges of global competition and changing demographics.

# **Mission Statement**

ASEE advances innovation, excellence, and access at all levels of education for the engineering profession.

# **Vision Statement**

Excellent and broadly accessible education empowering students and engineering professionals to create a better world.

### Values

Excellence, engagement, innovation, integrity, diversity and inclusion.

# Goals

ASEE recognizes the term "engineering education" to encompass the full academic spectrum of instruction, research, scholarship, practice, and service. ASEE also has an enduring commitment to continuous improvement.

In the context of the above two statements, ASEE pursues the following goals:

**Innovation** - ASEE will advance the development of innovative approaches and solutions to engineering education.

**Excellence** - ASEE will advance excellence in all aspects of engineering

education while continuously improving the member experience.

**Access** - ASEE will advocate for equal access to engineering educational opportunities for all.

Advocacy and Public Policy - ASEE will be the leading advocate for advancing the broad interests of engineering education.

**Communities** - ASEE will cultivate an inclusive community that engages all members and values the contributions of all stakeholders.

**Communication** - ASEE will implement a robust and transparent communication strategy effectively linking all stakeholders.

**Diversity and Inclusion** - ASEE will promote diversity, broadly defined, by modeling equity and inclusion through its policies and practices.

**Internal Organization** - ASEE will be a strategic and dynamic organization, with a knowledgeable and responsive staff, that enhances stakeholder engagement.

### **Financial Stability**

ASEE must carefully balance opportunities for investments in activities and programs to meet future needs with our current responsibilities, developing and maintaining a robust cash reserve, and ensuring that expenditures align with the organization's mission.

# **ASEE Presidential Team**

Doug Tougaw President Valparaiso University

Jenna P. Carpenter Immediate Past President *Campbell University* 

Grant Crawford President-Elect *Quinnipiac University* 

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Gregory Triplett Chair, EDC Data Committee Saint Louis University

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Patti Greenawalt Chief Operating Officer

Monique Maddox Chief Administrative Officer

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# **1 ENGINEERING BACHELOR'S**

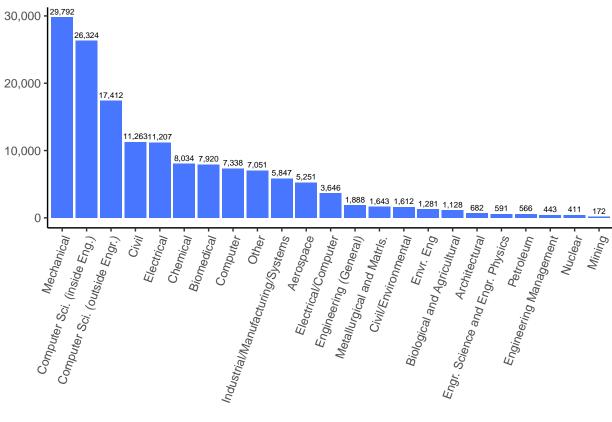
# 1.1 ENGINEERING BACHELOR'S DEGREES

#### 1.1.1 Total Bachelor's Degrees Awarded by Engineering Discipline

Discipline Name	Degrees Awarded
Mechanical	29,792
Computer Sci. (inside Eng.)	$26,\!324$
Computer Sci. (outside Engr.)	17,412
Civil	11,263
Electrical	11,207
Chemical	8,034
Biomedical	7,920
Computer	7,338
Other	7,051
Industrial/Manufacturing/Systems	5,847
Aerospace	5,251
Electrical/Computer	$3,\!646$
Engineering (General)	1,888
Metallurgical and Matrls.	$1,\!643$
Civil/Environmental	1,612
Envr. Eng	1,281
Biological and Agricultural	1,128
Architectural	682
Engr. Science and Engr. Physics	591
Petroleum	566
Engineering Management	443
Nuclear	411
Mining	172

Table 1: Bachelor's Degrees by Discipline:  $134,090^*$ 

<sup>\*</sup> Total does not include computer science (outside engineering).



Bachelor's Degrees Awarded by Engineering Discipline

#### 1.1.2 Total Bachelor's Degrees Awarded to Underrepresented Minorities by Engineering Discipline

Table 2: Bachelor's Degrees Awarded to Underrepresented Minorities by Engineering Discipline: 24,024

Discipline Name	Degrees Awarded
Mechanical	5,422
Computer Sci. (inside Eng.)	4,238
Civil	$2,\!600$
Computer Sci. (outside Engr.)	2,277
Electrical	2,277
Computer	1,408
Chemical	1,337
Other	1,298
Biomedical	1,266
Industrial/Manufacturing/Systems	1,095
Aerospace	861
Electrical/Computer	547
Civil/Environmental	318
Engineering (General)	280
Metallurgical and Matrls.	257
Envr. Eng	224
Biological and Agricultural	135
Architectural	126
Petroleum	121
Engr. Science and Engr. Physics	75
Nuclear	67
Engineering Management	59
Mining	13

#### 1.1.3 Percentage of Bachelor's Degrees Awarded to Underrepresented Minorities by Discipline

Discipline Name Degrees Awarded Civil 23.1%Petroleum 21.4%20.3%Electrical Civil/Environmental 19.7%19.2%Computer Industrial/Manufacturing/Systems 18.7%Architectural 18.5%Other 18.4%Mechanical 18.2%Envr. Eng 17.5%Chemical 16.6%Aerospace 16.4%Nuclear 16.3%Computer Sci. (inside Eng.) 16.1%Biomedical 16%Metallurgical and Matrls. 15.6%15%Electrical/Computer Engineering (General) 14.8%13.3%Engineering Management Computer Sci. (outside Engr.) 13.1%Engr. Science and Engr. Physics 12.7%Biological and Agricultural 12%Mining 7.6%

Table 3: Percentage of Bachelor's Degrees Awarded to Underrepresented Minorities by Discipline 17.2 % of Total

#### 1.1.4 Percentage of Bachelor's Degrees Awarded to Women by Discipline

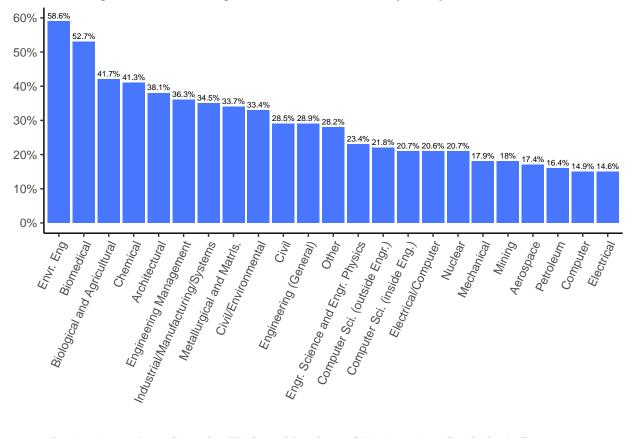
Table 4: Percentage of Bachelor's Degrees Awarded to Women by Discipline 24.6 % of Total

Discipline Name	Percent Women
Envr. Eng	58.6%
Biomedical	52.7%
Biological and Agricultural	41.7%
Chemical	41.3%
Architectural	38.1%
Engineering Management	36.3%
Industrial/Manufacturing/Systems	34.5%
Metallurgical and Matrls.	33.7%
Civil/Environmental	33.4%
Engineering (General)	28.9%

Discipline Name	Percent Women
Civil	28.5%
Other	28.2%
Engr. Science and Engr. Physics	23.4%
Computer Sci. (outside Engr.)	21.8%
Computer Sci. (inside Eng.)	20.7%
Nuclear	20.7%
Electrical/Computer	20.6%
Mining	18%
Mechanical	17.9%
Aerospace	17.4%
Petroleum	16.4%
Computer	14.9%
Electrical	14.6%

Table 4: Percentage of Bachelor's Degrees Awarded to Women by Discipline 24.6 % of Total (continued)

#### Percentage of Bachelor's Degrees Awarded to Women by Discipline



#### 1.1.5 Institutions Awarding the Highest Number of Engineering Bachelor's Degrees

Table 5: Institutions Awarding the Highest Number of Engineering Bachelor's Degrees

No	Institutions	Degrees Awarded
1	Georgia Institute of Technology	2,985
2	Purdue University	2,773
3	Texas A&M University	2,733
4	University of Illinois at Urbana-Champaign	2,533
5	Arizona State University	2,473
6	University of Michigan	2,363
7	Virginia Polytechnic Institute and State University	2,297
8	University of Central Florida	2,086
9	University of California, Berkeley	1,995
10	The Ohio State University	1,950
11	The Pennsylvania State University	1,930
12	University of Wisconsin-Madison	1,877
13	The University of Texas at Austin	1,868
14	Oregon State University	1,832
15	University of California, Irvine	1,737
16	University of Florida	1,720
16	University of Maryland, College Park	1,720
18	Rutgers, The State University of New Jersey, School of Engineering	$1,\!653$
19	North Carolina State University	1,632
20	Florida International University	1,586
21	Northeastern University	1,535
22	The University of Texas at Dallas	1,488
23	University of California, San Diego	1,457
24	University of Washington in Seattle	1,428
25	Iowa State University	1,423
26	California Polytechnic State University, San Luis Obispo	1,404
27	University of Colorado Boulder	1,263
28	George Mason University	1,262
29	University of Minnesota -Twin Cities	1,205

Table 5: Institutions Awarding the High	nest Number of Engineering
Bachelor's Degrees (continued)	

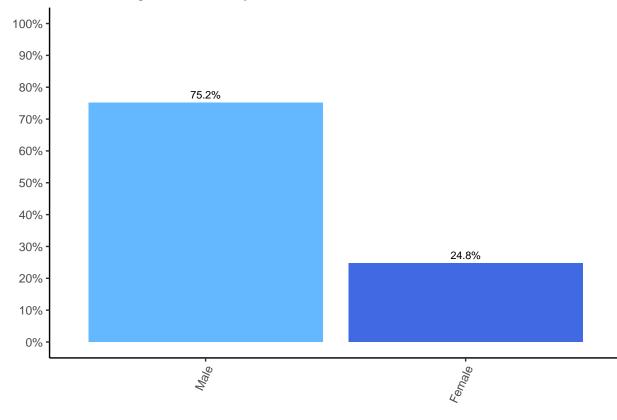
No	Institutions	Degrees Awarded
30	New Jersey Institute of Technology	1,204
31	Michigan State University	1,201
32	Colorado School of Mines	1,175
33	Clemson University	1,128
34	University of North Carolina at Charlotte	1,119
35	California State University, Long Beach	1,104
36	University of Virginia	1,093
37	University of California, Los Angeles	1,049
38	Auburn University	1,044
39	University of Massachusetts Amherst	1,040
40	Stony Brook University	1,035
41	University at Buffalo, SUNY	1,008
42	University of California-Santa Cruz	994
43	Missouri University of Science and Technology	973
44	The University of Texas at San Antonio	954
45	University of South Florida	930
46	Louisiana State University	917
47	Rensselaer Polytechnic Institute	914
48	University of Illinois at Chicago	912
49	Worcester Polytechnic Institute	876
50	Drexel University	872

\* 363 Institutions included

#### 1.1.6 Bachelor's Degrees Awarded by Gender

Table 6: Bachelor's Degrees Awarded by Gender

Gender	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Female	17.80%	18.10%		, .	/ 0	19.90%			21.90%	22.40%	23.00%	24.00%	24.20%
Male	82.20%	81.90%	81.60%	81.10%	80.90%	80.10%	79.10%	78.70%	78.10%	77.60%	77.00%	76.00%	75.80%



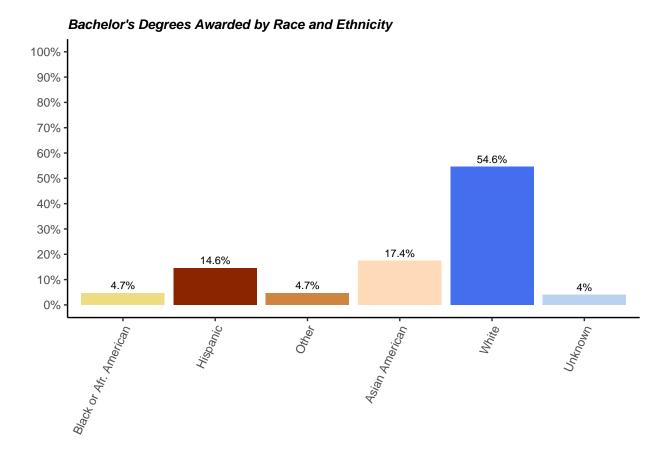


#### 1.1.7 Bachelor's Degrees Awarded by Race and Ethnicity

Table 7: Bachelor's Degrees Awarded by Ethnicity

Ethnicity	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Black or Afr. American	4.5%	4.2%	4.2%	4.3%	3.5%	4.0%	3.9%	4.1%	4.2%	4.3%	4.5%	4.7%
Hispanic	7.0%	8.5%	9.0%	9.3%	10.1%	10.7%	10.7%	11.1%	11.4%	12.1%	13%	13.6%
Other	1.2%	1.6%	2.0%	2.3%	2.9%	3.1%	3.6%	3.8%	3.5%	4.3%	4.4%	4.6%
Asian American	12.2%	12.2%	12.2%	12.9%	13.1%	13.4%	14.2%	14.6%	14.7%	14.7%	14.9%	15.6%
White	69.8%	66.6%	66.2%	65.7%	65.9%	64.9%	63.4%	62.3%	61.5%	60.8%	59.6%	58%
Unknown	5.3%	6.9%	6.5%	5.6%	4.5%	3.9%	4.2%	4.1%	4.2%	3.8%	3.6%	3.6%

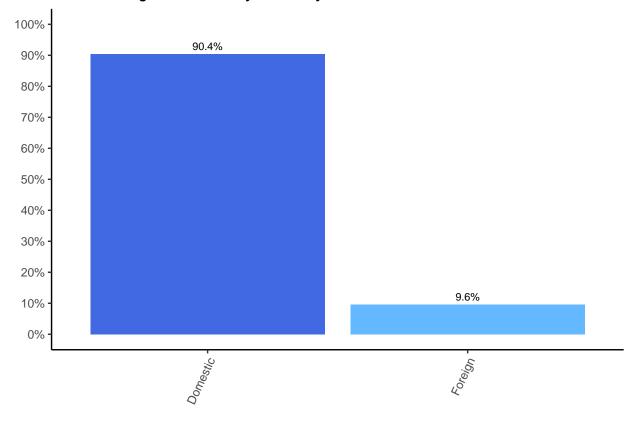
\*Data on ethnicity does not include foreign nationals. American Indian/Alaska Native (0.2%), Native Hawaiian/Other Pacific Islander(0.1%) and Multiracial (4.3%) are combined under Other.



### 1.1.8 Bachelor's Degrees Awarded by Residency

Table 8: Bachelor's Degrees Awarded by Residency

Nationality	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Foreign	6.2%	6.2%	6.7%	7.5%	7.8%	8.5%	9.1%	9.6%	10.1%	11.2%	11.2%	10.6%
Domestic	94.0%	93.8%	93.3%	92.5%	92.2%	91.5%	90.9%	90.4%	89.9%	88.8%	88.8%	89.4%



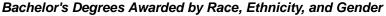
Bachelor's Degrees Awarded by Residency

Ethnicity	Degrees Awarded
Nonresident Alien Male	9,283
Nonresident Alien Female	2,869
Unknown Male	2,934
Unknown Female	1,171
Hispanic Male	13,367
Hispanic Female	4,418
White Male	51,113
White Female	15,403
Black or Afr. American Male	3,997
Black or Afr. American Female	1,761
Asian American Male	14,899
Asian American Female	6,321
American Indian Male	227
American Indian Female	76
Native Hawaiian/Other Pacific Islander Male	114
Native Hawaiian/Other Pacific Islander Female	51
Multiracial Male	3,832
Multiracial Female	1,443
Total Male	99,766
Total Female	33,513

Table 9: Bachelor's Degrees Awarded by Race, Ethnicity, and Gender 134,090\*

 $^*$  Total degree includes 33 total Non binary graduates and 793 total Other Gender graduates.

 $^{\circ}$  Includes 459 male and 193 female graduates from Puerto Rico.



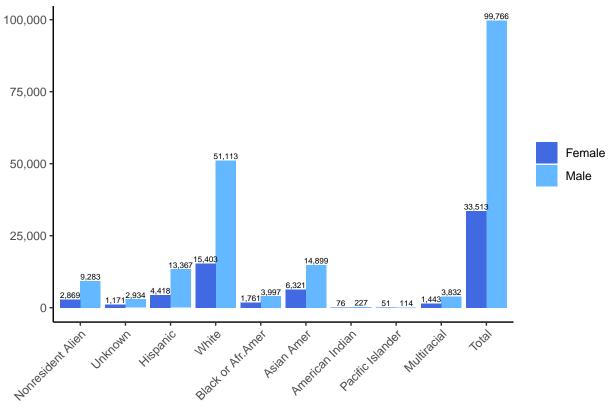




Table 10: Top 50 Institutions by Total Bachelor's Degrees awarded to Underrepresented Minorities

No	Institutions	Degrees Awarded
1	Florida International University	1,136
2	Texas A&M University	735
3	University of Central Florida	692
4	University of Puerto Rico, Mayaguez Campus	652
5	The University of Texas at San Antonio	566
6	Arizona State University	536
7	The University of Texas at El Paso	475
8	University of Florida	469
9	California State University, Long Beach	437
10	The University of Texas Rio Grande Valley	398
11	Georgia Institute of Technology	385
12	The University of Texas at Austin	351
13	North Carolina A&T State University	317
14	University of California, Irvine	316
15	New Jersey Institute of Technology	308
16	Texas Tech University	301
17	The University of Texas at Dallas	291
18	California Polytechnic State University, San Luis Obispo	270

Table 10: Top 50 Institutions by	Total Bachelor's Degrees awarded
to Underrepresented Minorities	(continued)

No	Institutions	Degrees Awarded
19	California State University, Sacramento	264
19	George Mason University	264
21	The University of Texas at Arlington	255
22	University of Maryland, College Park	250
22	Virginia Polytechnic Institute and State University	250
24	University of California, Merced	248
25	California State University, Northridge	238
26	University of California, San Diego	230
27	University of California, Riverside	227
28	University of Illinois at Chicago	220
29	Kennesaw State University	219
30	University of North Carolina at Charlotte	216
31	Rutgers, The State University of New Jersey, School of Engineering	215
31	San Diego State University	215
33	University of South Florida	213
34	FAMU-FSU College of Engineering	201
35	New Mexico State University	200
36	University of California, Berkeley	194
37	Massachusetts Institute of Technology	193
38	University of Illinois at Urbana-Champaign	190
39	University of Maryland, Baltimore County	186
40	University of California, Davis	182
41	Purdue University	178
41	University of North Texas	178
43	Texas State University	177
44	Oregon State University	175
44	University of Michigan	175
46	University of Colorado Boulder	172
47	Cornell University	171
48	North Carolina State University	155
49	University of California-Santa Cruz	154
50	University of Nevada, Las Vegas	152
* 90	2 Institutions included	I

\* 363 Institutions included

# 1.1.11 Top 50 Institutions by Total Bachelor's Degrees awarded to Women

# Table 11: Top 50 Institutions by Total Bachelor's Degrees awarded to Women

No	Institutions	Degrees Awarded
1	Georgia Institute of Technology	965
2	University of Michigan	695
3	Purdue University	688
4	Texas A&M University	655
5	University of Illinois at Urbana-Champaign	601
6	University of California, Berkeley	574
7	The University of Texas at Austin	527
7	Virginia Polytechnic Institute and State University	527
9	Northeastern University	523
10	University of Florida	508
11	Arizona State University	500
12	University of Washington in Seattle	467
13	The Ohio State University	460
14	North Carolina State University	458
15	University of Maryland, College Park	444
16	University of California, Irvine	441
17	The Pennsylvania State University	431
18	Rutgers, The State University of New Jersey, School of Engineering	419
19	Massachusetts Institute of Technology	414
20	Cornell University	410
21	Oregon State University	406
22	University of Wisconsin-Madison	403
23	University of Central Florida	402
24	Colorado School of Mines	385
25	California Polytechnic State University, San Luis Obispo	378
26	University of Virginia	373
27	University of Colorado Boulder	365
28	University of California, San Diego	341
29	Florida International University	333
30	University of Minnesota -Twin Cities	325
31	Worcester Polytechnic Institute	321
32	The University of Texas at Dallas	304
33	George Mason University	290
34	University of California, Los Angeles	285
35	University of Southern California	282
36	Clemson University	281
37	Michigan State University	273
38	Carnegie Mellon University	269
39	Rensselaer Polytechnic Institute	262

Table 11: Top 50 Institutions by Total Bachelor's Degrees awarded to Women *(continued)* 

No	Institutions	Degrees Awarded
40	Stanford University	254
41	New Jersey Institute of Technology	252
42	Stony Brook University	251
42	The University of Texas at San Antonio	251
44	Fu Foundation School of Engineering and Applied Science - Columbia University	245
45	Tufts University	235
46	University of Massachusetts Amherst	231
47	Auburn University	230
48	Iowa State University	229
48	University of California, Davis	229
50	NYU Tandon School of Engineering	228

\* 363 Institutions included

# 1.1.12 Top 50 Institutions by Percentage of Bachelor's Degrees awarded to Underrepresented Minorities

Table 12: Top 50 Institutions by Percentage of Bachelor's Degrees awarded to Underrepresented Minorities

1       Navajo Technical University       100%         1       University of Puerto Rico, Mayaguez Campus       100%         2       Southerm University and A & M College       97.4%         4       Hampton University       92.9%         5       The University of Texas Rio Grande Valley       90%         6       Alabama A & M University       87.3%         9       The University of Texas at El Paso       85.7%         10       Nortol Carolina A&T State University       83.3%         11       Florida Agricultural and Mechanical University       81.6%         12       Tuskegee University       75.9%         14       Bethune-Cookman University       75.9%         15       Florida International University       71.6%         16       Howard University       60.3%         17       University of Texas of the Permian Basin       60.7%         18       St. Mary's University - Kingsville       60.2%         17       The University of Texas at San Antonio       59.3%         20       Texas A&M University - Sugast San Antonio       59.3%         21       The University of Sate University       54.9%         22       University of California, Merced       54.3%         23<	No	Institutions	Percent Underrepresented Minorities
1     University of Puerto Rico, Mayaguez Campus     100%       3     Southern University     92.9%       5     The University of Texas Rio Grande Valley     90%       6     Alabama A & M University     88.2%       7     Norfolk State University     87.3%       9     The University of Texas at El Paso     85.7%       10     North Carolina A&T State University     81.6%       11     Florida Agricultural and Mechanical University     81.6%       12     Tuskegee University     76.1%       13     Prakrie View A & M University     75.9%       14     Bethme-Cookman University     75.9%       15     Florida International University     76.1%       16     Howard University     69.3%       17     University of Maryland Eastern Shore     66.7%       18     St. Mary's University     61.5%       19     The University of Texas at San Antonio     59.3%       21     New Mexico State University     54.9%       22     New Mexico State University     54.9%       23     University of Texas at San Antonio     59.3%       24     University of California, Knered     54.3%       25     California State University-San Bernardino     51.2%       26     California State University-Corpus			
3       Southern University and A & M College       97.4%         4       Hampton University Texas Rio Grande Valley       90%         6       Alabama A & M University       88.2%         7       Norfolk State University       87.3%         9       The University of Texas at El Paso       85.7%         10       Norto Carolina A ACT State University       83.9%         11       Florida Agricultural and Mechanical University       81.6%         12       Tuskogee University       75.9%         14       Bethune-Cookman University       75.9%         15       Florida International University       75.9%         16       Howard University       69.9%         17       University of Maryland Eastern Shore       66.7%         18       St. Mary's University       60.2%         21       The University of Texas at San Antonio       59.3%         22       New Mexico State University       54.9%         23       University of California, Mercod       54.3%         24       University of California, Mercod       54.3%         25       California State University-San Bernardino       51.2%         24       University of California, Mercod       54.3%         25		•	
4     Hampton University     92.9%       5     The University of Texas Rio Grande Valley     90%       6     Alabama A & M University     87.5%       3     Jackson State University     87.5%       4     Intervention of the University     87.5%       5     The University of Texas at El Paso     85.7%       10     North Carolina A&T State University     83.9%       11     Florida Agricultural and Mechanical University     81.6%       12     Tuskegee University     75.9%       13     Prairie View A & M University     75.9%       14     Bethune-Cookman University     75.7%       15     Florida International University     71.6%       16     Howard University     61.5%       17     University of Texas of the Permian Basin     60.7%       20     The University of Texas of the Permian Basin     60.2%       21     The University of Texas of the Permian Basin     60.2%       22     New Mexico State University     54.9%       23     University of California, Merced     54.3%       24     University of California, Merced     54.3%       25     California State University-San Bernardino     51.2%       24     University of New Mexico     45.7%       25     California State			
5     The University of Texas Rio Grande Valley     90%       6     Alabama A & M University     88.2%       7     Norfolk State University     87.5%       8     Jackson State University     87.3%       9     The University of Texas at El Paso     85.7%       10     North Carolina A&T State University     83.9%       11     Florida Agricultural and Mechanical University     81.6%       12     Tuskegee University     76.1%       13     Prairie View A & M University     75.9%       14     Bethune-Cookman University     75.9%       15     Florida International University     76.1%       16     Howard University     75.9%       17     University of Maryland Eastern Shore     66.7%       18     St. Mary's University     61.5%       19     The University of Texas at San Antonio     59.3%       20     Texas A&M University - Kingsville     60.2%       21     The University of Texas at San Antonio     59.3%       22     New Mexico State University-San Bernardino     51.2%       23     University of California, Merced     54.3%       24     University of New Mexico     45.7%       25     Florida Atlant University-Corpus Christi     45.4%       26     California State Univ			
6     Alabama A & M University     88.2%       7     Norfolk State University     87.5%       9     The University of Texas at El Paso     85.7%       10     North Carolina A& T State University     83.9%       11     Florida Agricultural and Mcchanical University     81.6%       12     Tuskegee University     76.1%       13     Prairie View A & M University     75.9%       14     Bethune-Cookman University     75.%       15     Florida International University     75.%       16     Howard University     69.9%       17     University of Maryland Eastern Shore     66.7%       18     St. Mary's University     61.5%       19     The University of Texas of the Permian Basin     60.7%       10     Texas A&M University - Kingsville     60.2%       21     The University of Texas at San Antonio     59.3%       22     New Mexico State University - San Bernardino     51.2%       21     University of the District of Columbia     54.7%       22     New Mexico Institute of Mining and Technology     45.4%       23     University of New Mexico     45.6%       24     University - Corpus Christi     45.4%       25     California State University - Bakersfield     43.5%       26			
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8       Jackson State University       87.3%         9       The University of Texas at El Paso       85.7%         10       North Carolina A&T State University       83.9%         11       Florida Agricultural and Mechanical University       81.6%         12       Tuskegee University       76.1%         13       Praire View A & M University       75.9%         14       Bethune-Cookman University       75.%         15       Florida International University       76.1%         16       Howard University       60.9%         17       University of Texas of the Permian Basin       60.7%         18       St. Mary's University - Kingsville       60.2%         17       University of Texas of the Permian Basin       60.7%         20       The We Mexico State University       54.9%         21       The Winiversity of Texas at San Antonio       59.3%         22       New Mexico State University       54.9%         21       University of California, Merced       54.3%         22       California State University-San Bernardino       51.2%         23       University of New Mexico       45.7%         24       University of New Mexico       45.7%         25       C		*	
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\* 363 Institutions included

#### 1.1.13 Top 20 Institutions by Percentage of Bachelor's Degrees awarded to Women

Table 13: Top 20 Institutions by Percentage of Bachelor's Degrees awarded to Women

No	Institutions	Percent Women
1	Navajo Technical University	100%
1	Smith College	100%
1	Sweet Briar College	100%
4	University of North Carolina at Chapel Hill	81.2%
5	Southern Methodist University	63.6%
6	Swarthmore College	60.6%
7	Olin College of Engineering	58.8%
8	Harvey Mudd College	50.9%
9	Bates College	50%
10	Massachusetts Institute of Technology	48.5%
11	Cornell University	48%
12	Howard University	47.9%
13	Tufts University	44.3%
14	Carnegie Mellon University	43.5%
15	Fu Foundation School of Engineering and Applied Science - Columbia University	42.6%
16	Stanford University	41.8%
17	Hope College	41.2%
17	Thomas Jefferson University	41.2%
19	NYU Tandon School of Engineering	41.2%
20	The George Washington University	41%

\* 363 Institutions included

#### 1.1.14 Top 20 Institutions by Total Bachelor's Degrees awarded to African Americans

Table 14: Top 20 Institutions by Total Bachelor's Degrees awarded to African Americans

No	Institutions	Degrees Awarded
1	North Carolina A&T State University	295
2	Georgia Institute of Technology	165
3	Florida International University	147
4	University of Maryland, Baltimore County	143
5	George Mason University	136
6	University of Central Florida	131
7	University of Maryland, College Park	129
8	Prairie View A & M University	122
9	Kennesaw State University	113
10	University of North Carolina at Charlotte	101
11	New Jersey Institute of Technology	89
12	FAMU-FSU College of Engineering	85
13	Tuskegee University	84
14	Virginia Polytechnic Institute and State University	83
15	Louisiana State University	79
16	Southern University and A & M College	74
17	Georgia Southern University	72
18	The Ohio State University	70
19	The University of Texas at Dallas	68
19	University of Florida	68

\* 363 Institutions included

# 1.1.15 Top 20 Institutions by Total Bachelor's Degrees awarded to Asian Americans

Table 15: Top 20 Institutions by Total Bachelor's Degrees awarded to Asian Americans

No	Institutions	Degrees Awarded
1	University of California, Berkeley	1,031
2	Georgia Institute of Technology	874
3	University of Illinois at Urbana-Champaign	820
4	University of California, San Diego	804
5	University of California, Irvine	754
6	Rutgers, The State University of New Jersey, School of Engineering	745
7	The University of Texas at Austin	684
8	The University of Texas at Dallas	605
9	University of Michigan	570
10	Purdue University	526
11	University of Washington in Seattle	500
12	University of Maryland, College Park	484
13	Texas A&M University	455
14	George Mason University	446
15	University of California, Los Angeles	443
16	Stony Brook University	441
17	University of California-Santa Cruz	377
18	University of California, Riverside	376
19	Virginia Polytechnic Institute and State University	375
20	Arizona State University	366

363 Institutions included

Table 16: Top 20 Institutions by Total Bachelor's Degrees awarded to Hispanics

No	Institutions	Degrees Awarded
1	Florida International University	986
2	Texas A&M University	657
3	University of Puerto Rico, Mayaguez Campus	652
4	University of Central Florida	557
5	The University of Texas at San Antonio	506
6	The University of Texas at El Paso	467
7	Arizona State University	460
8	California State University, Long Beach	409
9	The University of Texas Rio Grande Valley	396
10	University of Florida	383
11	The University of Texas at Austin	311
12	University of California, Irvine	297
13	California Polytechnic State University, San Luis Obispo	260
14	Texas Tech University	246
15	California State University, Northridge	229
16	California State University, Sacramento	225
17	University of California, Merced	223
18	The University of Texas at Dallas	221
19	Georgia Institute of Technology	220
20	New Jersey Institute of Technology	216

\* 363 Institutions included

#### 1.1.17 Top 20 Institutions by Total Bachelor's Degrees awarded in Aerospace Engineering

Table 17: Top 20 Institutions by Total Bachelor's Degrees awarded in Aerospace Engineering

No	Institutions	Degrees Awarded
1	Purdue University	314
2	Embry Riddle Aeronautical University-Daytona Beach	304
3	Virginia Polytechnic Institute and State University	237
4	Georgia Institute of Technology	224
5	University of Colorado Boulder	218
6	University of Central Florida	205
7	The University of Texas at Austin	170
8	Texas A&M University	164
9	Embry Riddle Aeronautical University, Prescott	147
10	University of Florida	143
11	University of Maryland, College Park	142
12	University of Illinois at Urbana-Champaign	137
13	The Pennsylvania State University	126
14	The University of Alabama in Huntsville	124
15	Arizona State University	123
16	Iowa State University	121
17	Rensselaer Polytechnic Institute	117
18	San Diego State University	111
19	California Polytechnic State University, San Luis Obispo	108
20	University of Michigan	103

<sup>\*</sup> 56 Institutions included

#### 1.1.18 Top 20 Institutions by Total Bachelor's Degrees awarded in Biomedical Engineering

Table 18: Top 20 Institutions by Total Bachelor's Degrees awarded in Biomedical Engineering

	<b>T</b>	
No	Institutions	Degrees Awarded
1	Georgia Institute of Technology	266
2	Texas A&M University	167
3	North Carolina State University	160
4	Northeastern University	156
5	Rutgers, The State University of New Jersey, School of Engineering	139
6	Boston University	138
6	University of Michigan	138
8	University of Wisconsin-Madison	137
9	Arizona State University	136
10	The University of Texas at Austin	132
11	University of California, San Diego	129
12	Clemson University	128
13	University of Maryland, College Park	125
14	Worcester Polytechnic Institute	121
15	University of California, Irvine	119
16	University of Florida	118
17	Purdue University	116
18	University of Virginia	112
19	University of California, Berkeley	109
20	The Johns Hopkins University	108

No	Institutions	Degrees Awarded
* 14	1 Institutions included	

# 1.1.19 Top 50 Institutions by Total Bachelor's Degrees awarded in Chemical Engineering

Table 19: Top 50 Institutions by Total Bachelor's Degrees awarded in Chemical Engineering

No	Institutions	Degrees Awarded
1	Texas A&M University	239
2	Georgia Institute of Technology	170
$\frac{2}{3}$	The Ohio State University	155
3	The University of Texas at Austin	155
5	University of California, Berkeley	149
6	Purdue University	143
7	The Pennsylvania State University	139
8	Yale School of Engineering & Applied Science	135
9	North Carolina State University	130
$\frac{9}{10}$	Arizona State University	129
10		124
10	Northeastern University	
12 $12$	Michigan State University	123 123
	University of Cincinnati	123
14	University of Illinois at Urbana-Champaign	
15	University of Florida	110
16	University of Minnesota -Twin Cities	106
17	Michigan Technological University	103
18	University of Wisconsin-Madison	101
19	University of California, San Diego	97
19	University of Michigan	97
21	University of Kentucky	95
22	Iowa State University	94
22	Rutgers, The State University of New Jersey, School of Engineering	94
24	Texas Tech University	89
25	Virginia Polytechnic Institute and State University	88
26	Oregon State University	87
27	The Johns Hopkins University	80
28	Missouri University of Science and Technology	79
29	University of Puerto Rico, Mayaguez Campus	77
30	Auburn University	76
30	Drexel University	76
30	University of California, Davis	76
30	University of California, Los Angeles	76
34	University of Massachusetts Lowell	75
35	Louisiana State University	74
36	NYU Tandon School of Engineering	73
36	University of Pittsburgh	73
38	Colorado State University	72
38	University of Kansas	72
40	University of Notre Dame	70
41	Brigham Young University	68
41	San Jose State University	68
41	University of Arizona	68
41	University of South Florida	68
45	University of Delaware	67
46	Clemson University	66
46	University of Tennessee, Knoxville	66
48	Oklahoma State University	64
49	University of Connecticut	62
49	University of Dayton	62
		<u> </u>

\* 144 Institutions included

#### 1.1.20 Top 50 Institutions by Total Bachelor's Degrees awarded in Civil Engineering

Table 20: Top 50 Institutions by Total Bachelor's Degrees awarded in Civil Engineering

No	Institutions	Degrees Awarded
1	Texas A&M University	250
2	Virginia Polytechnic Institute and State University	242
3	Purdue University	200
4	California State University, Long Beach	186
5	The University of Texas at Arlington	184
6	University of Illinois at Urbana-Champaign	180
7	New Jersey Institute of Technology	177
8	The Pennsylvania State University	160
9	University of Central Florida	158
10	North Carolina State University	153
11	California Polytechnic State University, San Luis Obispo	148
12	California State University, Sacramento	144
12	Florida International University	144

Table 20: Top 50 Institutions by Total Bachelor's Degrees awarded
in Civil Engineering (continued)

No	Institutions	Degrees Awarded
14	The University of Texas at Austin	142
15	Clemson University	131
15	University at Buffalo, SUNY	131
17	San Diego State University	128
18	Iowa State University	123
19	University of California, Davis	119
20	University of Washington in Seattle	118
21	Auburn University	113
22	University of California, Irvine	110
23	Missouri University of Science and Technology	105
24	University of California, Berkeley	103
24	University of Maryland, College Park	103
26	University of Nebraska, Lincoln	102
27	Georgia Institute of Technology	101
27	University of Florida	101
29	California State University, Northridge	99
30	University of Kentucky	97
31	FAMU-FSU College of Engineering	96
31	Northeastern University	96
33	Kennesaw State University	94
34	Colorado State University	93
35	Michigan State University	91
35	The University of Texas at El Paso	91
37	Manhattan College	89
37	University of Hawaii at Manoa	89
37	University of Illinois at Chicago	89
40	Oregon State University	88
40	University of California, San Diego	88
40	University of Nevada, Reno	88
43	University of Wisconsin-Madison	87
44	University of Connecticut	84
45	The University of Texas Rio Grande Valley	83
45	University of Massachusetts Amherst	83
45	University of South Florida	83
48	California State University-Fresno	82
48	University of Wisconsin, Platteville	82
48	West Virginia University	82
	8 Institutions included	1

1.1.21 Top 50 Institutions by Total Bachelor's Degrees awarded in Industrial/Manufacturing Engineering

#### Table 21: Top 50 Institutions by Total Bachelor's Degrees awarded in Industrial/Manufacturing Engineering

No	Institutions	Degrees Awardee
1	Georgia Institute of Technology	346
2	Texas A&M University	279
3	Purdue University	269
4	Virginia Polytechnic Institute and State University	240
5	Clemson University	169
6	University of Illinois at Urbana-Champaign	165
7	The Ohio State University	149
8	Arizona State University	138
8	University of Michigan	138
10	The Pennsylvania State University	134
11	Oregon State University	120
11	University of Arizona	120
13	University of Florida	12
14	University of Central Florida	120
15	North Carolina State University	11
16	San Jose State University	108
17	Iowa State University	105
18	University of Wisconsin-Madison	98
19	California Polytechnic State University, San Luis Obispo	93
20	University of Puerto Rico, Mayaguez Campus	90
21	Auburn University	8
22	Princeton University	70
23	University of Pittsburgh	74
24	Cornell University	7:
25	University of South Florida	7
25	University of Southern California	7
27	University of Minnesota -Twin Cities	70
27	University of Tennessee, Knoxville	70
27	West Virginia University	70
30	University of Virginia	68
31	Lehigh University	65
32	Texas State University	64
33	Northwestern University	65
34	Rutgers, The State University of New Jersey, School of Engineering	6

Table 21: Top 50 Institutions by Total Bachelor's Degrees awarded in Industrial/Manufacturing Engineering *(continued)* 

No	Institutions	Degrees Awarded
35	The State University of New York at Binghamton	58
35	University of California, Berkeley	58
37	University of Washington in Seattle	56
38	Texas Tech University	54
39	Stanford University	52
40	FAMU-FSU College of Engineering	49
41	Oklahoma State University	48
42	Louisiana State University	46
43	The University of Alabama in Huntsville	45
44	University of Oklahoma, Gallogly College of Engineering	43
45	South Dakota School of Mines and Technology	41
46	Rochester Institute of Technology	40
46	University of San Diego	40
48	University at Buffalo, SUNY	38
49	United States Merchant Marine Academy	36
50	Kansas State University	35

\* 105 Institutions included

# 1.1.22 Top 50 Institutions by Total Bachelor's Degrees awarded in Mechanical Engineering

Table 22: Top 50 Institutions by Total Bachelor's Degrees awarded in Mechanical Engineering

No	Institutions	Degrees Awarded
1	Purdue University	478
2	Texas A&M University	454
3	Georgia Institute of Technology	437
4	University of Central Florida	424
5	The Pennsylvania State University	374
6	Iowa State University	356
7	Virginia Polytechnic Institute and State University	339
8	University of Maryland, College Park	327
9	Colorado School of Mines	319
10	University at Buffalo, SUNY	313
11	Northeastern University	295
12	California Polytechnic State University, San Luis Obispo	235
13	University of California, Irvine	285
14	Arizona State University	278
15	Michigan State University	275
15	The University of Texas at Austin	275
17	Oregon State University	273
18	University of Florida	213
19	Michigan Technological University	263
$\frac{19}{20}$	University of Colorado Boulder	203
20	•	
	San Diego State University	259
21	University of Illinois at Urbana-Champaign	259
23	Texas Tech University	253
24	North Carolina State University	244
25	Kennesaw State University	240
26	University of Michigan	239
27	California State University, Long Beach	233
28	Auburn University	230
29	New Jersey Institute of Technology	228
30	The University of Texas at Dallas	225
31	Washington State University	224
32	California State University, Northridge	222
33	The Ohio State University	218
34	Clemson University	217
34	University of Wisconsin-Madison	217
36	University of North Carolina at Charlotte	213
37	Oklahoma State University	211
38	FAMU-FSU College of Engineering	209
39	Missouri University of Science and Technology	203
40	Colorado State University	201
41	Georgia Southern University	197
42	University of California, Davis	187
42	University of California, Los Angeles	187
42	University of Minnesota -Twin Cities	187
45	Worcester Polytechnic Institute	183
46	Drexel University	182
46	Rutgers, The State University of New Jersey, School of Engineering	182
46	University of California, Berkeley	182
49	Stevens Institute of Technology	180
50	Brigham Young University	179

\* 287 Institutions included

#### 1.1.23 Top 50 Institutions by Total Bachelor's Degrees awarded in Electrical Engineering

Table 23: Top 50 Institutions by Total Bachelor's Degrees awarded in Electrical Engineering

No	Institutions	Degrees Awarded
1	Arizona State University	361
2	Texas A&M University	265
3	Florida International University	212
4	University of California, San Diego	188
5	University of Illinois at Urbana-Champaign	185
6	Purdue University	174
7	Western Carolina University	168
8	University of Central Florida	159
9	California Polytechnic State University, San Luis Obispo	154
9	The Pennsylvania State University	154
11	Georgia Institute of Technology	145
12	Brigham Young University - Idaho	136
13	North Carolina State University	135
14	The University of Texas at Dallas	130
15	University of California, Los Angeles	129
16	California State University, Long Beach	128
17	Michigan State University	125
18	University of Massachusetts Lowell	123
19	University of Michigan-Dearborn	121
20	University of Florida	119
21	Iowa State University	113
22	Virginia Polytechnic Institute and State University	111
23	Michigan Technological University	105
24	Stevens Institute of Technology	103
25	University of Cincinnati	102
26	Clemson University	101
26	University of Wisconsin-Madison	101
28	University of Maryland, College Park	100
29	Kennesaw State University	99
30	University of California, Davis	98
31	University of California, Irvine	96
31	University of Michigan	96
33	California State University, Sacramento	94
33	University of Puerto Rico, Mayaguez Campus	94
35	University of South Florida	89
36	University at Buffalo, SUNY	88
37	San Diego State University	86
37	University of Illinois at Chicago	86
39	Georgia Southern University	84
40	City College of the City University of New York	83
40	Missouri University of Science and Technology	83
40	Northeastern University	83
43	University of North Carolina at Charlotte	81
44	California State University, Northridge	79
44	Colorado School of Mines	79
44	The University of Texas at El Paso	79
44	University of Dayton	79
48	Texas State University	78
49	Drexel University	77
50	University of Nevada, Reno	76

\* 251 Institutions included

### 1.1.24 Top 50 Institutions by Total Bachelor's Degrees awarded in Computer Engineering

Table 24: Top 50 Institutions by Total Bachelor's Degrees awarded in Computer Engineering

No	Institutions	Degrees Awarded
1	University of Illinois at Urbana-Champaign	396
2	Purdue University	319
3	Virginia Polytechnic Institute and State University	229
4	University of California, San Diego	169
5	Texas A&M University	168
6	University of Central Florida	158
7	Georgia Institute of Technology	157
8	University of California-Santa Cruz	144
9	Northeastern University	134
10	University of Nevada, Reno	133
11	University of Wisconsin-Madison	132
12	Florida International University	119
13	North Carolina State University	110

Table 24: Top 50 Institutions by Total Bachelor's Degrees awarded in Computer Engineering *(continued)* 

No	Institutions	Degrees Awarded
14	University of California, Irvine	105
15	University of Michigan	104
16	University of Maryland, College Park	101
17	The University of Texas at Dallas	99
18	Boston University	92
19	University of Florida	91
20	Iowa State University	85
21	California Polytechnic State University, San Luis Obispo	84
22	The Pennsylvania State University	83
23	University of Minnesota -Twin Cities	81
$\frac{24}{25}$	Drexel University University of Pittsburgh	79 76
26	University of Massachusetts Amherst	75
27	San Diego State University Florida Gulf Coast University	74
$\frac{28}{29}$	Rochester Institute of Technology	72 67
$\frac{29}{30}$	University of Cincinnati	65
$\frac{30}{32}$	University of Puerto Rico, Mayaguez Campus Rensselaer Polytechnic Institute	$\frac{65}{62}$
32	University of California, Los Angeles	62
34	California State University, Sacramento	61
34	Florida Atlantic University	61
36	California State University, Long Beach	60
36	New Jersey Institute of Technology	60
36	Stony Brook University	60
36	University of North Carolina at Charlotte	60
40	Michigan Technological University	59
41	University of Illinois at Chicago	57
42	Missouri University of Science and Technology	56
43	The University of Alabama in Huntsville	54
43	University of Massachusetts Lowell	54
45	Arizona State University	53
46	Kennesaw State University	51
46	University of South Florida	51
48	NYU Tandon School of Engineering	50
48	The University of Texas at San Antonio	50
50 * 10	Clemson University 6 Institutions included	49

\* 186 Institutions included

# 1.1.25 Top 20 Institutions by Total Bachelor's Degrees awarded in Electrical/Computer Engineering

Table 25: Top 20 Institutions by Total Bachelor's Degrees awarded in Electrical/Computer Engineering

No	Institutions	Degrees Awarded
1	University of California, Berkeley	466
2	The University of Texas at Austin	342
3	Rutgers, The State University of New Jersey, School of Engineering	289
4	University of Washington in Seattle	227
5	The Ohio State University	217
6	Carnegie Mellon University	157
7	Brigham Young University	152
8	Texas Tech University	127
9	Massachusetts Institute of Technology	115
10	Oregon State University	113
11	Duke University	101
11	The State University of New York at Binghamton	101
13	Cornell University	100
14	University of Southern California	99
15	The University of Iowa	97
16	University of Arizona	92
17	Colorado State University	72
17	University of Connecticut	72
19	Wayne State University	70
20	Worcester Polytechnic Institute	68

 $^{\ast}$  42 Institutions included

#### 1.1.26 Top 20 Institutions by Total Bachelor's Degrees awarded in Computer Science (outside engineering)

Table 26: Top 20 Institutions by Total Bachelor's Degrees awarded in Computer Science (outside engineering)

No	Institutions	Degrees Awarded
1	Georgia Institute of Technology	1,021
2	University of Wisconsin-Madison	876
3	University of California, Berkeley	838
4	University of California, Irvine	829
5	University of Maryland, College Park	707
6	Rutgers, The State University of New Jersey, School of Engineering	684
7	Northeastern University	647
8	University of North Carolina at Charlotte	641
9	University of Michigan	597
10	University of Massachusetts Amherst	524
11	Purdue University	521
12	New Jersey Institute of Technology	497
13	The University of Texas at Austin	455
14	University of Virginia	349
15	Southern New Hampshire University	331
16	The University of Texas at San Antonio	315
17	Brigham Young University	299
18	Rochester Institute of Technology	287
19	Boston University	260
20	Carnegie Mellon University	258

 $^{\ast}$  130 Institutions included

#### 1.1.27 Top 50 Institutions by Total Bachelor's Degrees awarded in Computer Science (inside engineering)

Table 27: Top 50 Institutions by Total Bachelor's Degrees awardedin Computer Science (inside engineering)

No	Institutions	Degrees Awarded
1	The University of Texas at Dallas	945
2	Arizona State University	918
3	Oregon State University	912
4	University of Central Florida	812
5	Florida International University	723
6	University of Illinois at Urbana-Champaign	655
7	University of Michigan	649
8	University of California-Santa Cruz	526
9	Virginia Polytechnic Institute and State University	525
10	University of California, San Diego	522
11	University of Washington in Seattle	495
12	The Ohio State University	455
13	The Pennsylvania State University	428
14	University of Minnesota -Twin Cities	420
15	Texas A&M University	399
16	University of Utah	397
17	George Mason University	380
18	University of California, Riverside	374
19	University of Illinois at Chicago	344
20	University of Southern California	341
21	University of California, Los Angeles	340
22	Massachusetts Institute of Technology	337
23	Michigan State University	334
24	University of Maryland, Baltimore County	330
25	Cornell University	321
26	Stony Brook University	320
27	University of Florida	314
28	California State University, Long Beach	305
28	California State University, Sacramento	305
30	University of North Texas	298
31	Stanford University	293
32	Auburn University	292
33	University of Virginia	290
34	University at Buffalo, SUNY	284
35	North Carolina State University	283

Table 27: Top 50 Institutions by Total Bachelor's Degrees awarded in Computer Science (inside engineering) *(continued)* 

No	Institutions	Degrees Awarded
36	University of Colorado Boulder	281
37	The University of Texas at Arlington	271
38	University of Georgia	247
39	California Polytechnic State University, San Luis Obispo	244
40	Washington University in St. Louis	230
41	University of Pennsylvania	223
42	University of California, Merced	221
43	Colorado School of Mines	215
44	Washington State University	209
45	University of Connecticut	208
46	Princeton University	202
47	Brigham Young University - Idaho	195
48	University of South Carolina	194
49	Clemson University	190
49	Fu Foundation School of Engineering and Applied Science - Columbia University	190

131 Institutions included

#### 1.1.28 Top 50 Institutions by Total Bachelor's Degrees awarded in Engineering (General)

Table 28: Top 50 Institutions by Total Bachelor's Degrees awarded in Engineering (General)

No	Institutions	Degrees Awarded
1	Dartmouth College	170
2	Arizona State University	160
3	San Jose State University	81
4	East Carolina University	76
5	Stanford University	73
6	James Madison University	66
7	McNeese State University	63
8	Massachusetts Maritime Academy	60
9	Harvey Mudd College	53
10	Hope College	51
11	Geneva College	50
12	Olivet Nazarene University	48
13	Texas Christian University	45
14	Loyola University Maryland	42
15	Olin College of Engineering	39
16	Elizabethtown College	38
17	Rutgers, The State University of New Jersey, School of Engineering	37
18	Minnesota State University-Mankato	34
19	Swarthmore College	33
20	Smith College	32
21	North Carolina State University	31
22	Vanderbilt University	30
23	University of North Carolina at Asheville	28
23	University of Southern Indiana	28
25	Campbell University	27
25	Oral Roberts University	27
27	Frostburg State University	24
27	The University of Tennessee-Martin	24
29	Fort Lewis College	21
30	Trinity College	20
31	Abilene Christian University	18
31	Boise State University	18
31	University of Maryland Eastern Shore	18
34	Colorado School of Mines	17
34	Southern Arkansas University Main Campus	17
34	Western Carolina University	17
37	Andrews University	16
37	Texas A&M University	16
37	University of San Diego	16
40	Marshall University	15
41	California Polytechnic State University, San Luis Obispo	13
41	Seattle Pacific University	13
43	Northwest Nazarene University	12
43	Southern Utah University	12
43	University of Missouri	12
46	Bob Jones University	10
46	Stevens Institute of Technology	10
46	University of Rochester	10
46	Western Illinois University	10
50	Loras College	8

Degrees Awarded

No	Institutions		
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<sup>\*</sup> 76 Institutions included

# 1.2 ENGINEERING UNDERGRADUATE ENROLLMENT, FALL 2023

# 1.2.1 Undergraduate Enrollment by Race, Ethnicity, and Gender

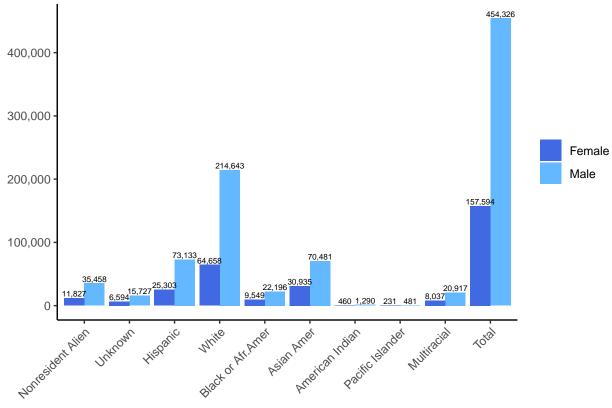
Table 29: Undergraduate Enrollment Awarded by Race, Ethnicity, and Gender 616,831\*

Ethnicity	Enrollments
Nonresident Alien Male	$35,\!458$
Nonresident Alien Female	11,827
Unknown Male	15,727
Unknown Female	6,594
Hispanic Male	73,133
Hispanic Female	25,303
White Male	214,643
White Female	$64,\!658$
Black or Afr. American Male	22,196
Black or Afr. American Female	9,549
Asian American Male	70,481
Asian American Female	$30,\!935$
American Indian Male	1,290
American Indian Female	460
Native Hawaiian/Other Pacific Islander Male	481
Native Hawaiian/Other Pacific Islander Female	231
Multiracial Male	20,917
Multiracial Female	8,037
Total Male	454,326
Total Female	$157,\!594$

\* Total Enrollment includes is for full time students

\* Includes 3,000 male and 1,159 female.

# Undergraduate Enrollment by Race, Ethnicity, and Gender



# 1.2.2 Engineering Undergraduate Enrollment by Institutions

Table 30: Top 50 Engineering Undergraduate Enrollment by Institutions

No	Institutions	Enrollment
1	Arizona State University	63,006
2	Texas A&M University	16,828
3	University of Central Florida	12,403
4	Purdue University	11,258
5	Oregon State University	10,018
6	Virginia Polytechnic Institute and State University	9,469
7	University of Illinois at Urbana-Champaign	8,537
8	The Pennsylvania State University	8,511

No	Institutions	Enrollment
9	The Ohio State University	8,459
10	North Carolina State University	8,275
11	Georgia Institute of Technology	7,902
12	George Mason University	7,820
13	Florida International University	$7,\!456$
14	University of Florida	7,149
15	University of Michigan	7,094
16	Iowa State University	7,049
17	The University of Texas at Dallas	6,855
18	California Polytechnic State University, San Luis Obispo	6,467
19	Michigan State University	6,127
20	The University of Texas at Austin	$6,\!112$
21	Louisiana State University	5,912
22	University of California, San Diego	5,822
23	The University of Texas at Arlington	5,693
24	University of Colorado Boulder	5,661
25	Clemson University	$5,\!597$
26	University of South Florida	5,468
27	Kennesaw State University	5,417
28	University of Washington in Seattle	5,410
29	University of Utah California Stata University, Long Boach	5,397
30	California State University, Long Beach	5,245
31	Auburn University	5,214
32	Colorado School of Mines	5,109
33	University of Minnesota -Twin Cities	5,042
$\frac{34}{35}$	University of Illinois at Chicago University of California-Santa Cruz	4,864
	•	4,848
36	Missouri University of Science and Technology	4,813
36	University of Wisconsin-Madison	4,813
38	The University of Alabama	4,768
$\frac{39}{40}$	University of Cincinnati University of Puerto Rico, Mayaguez Campus	4,654 4,643
41	Texas Tech University	4,591
42	University of California, Berkeley	4,547
43	California State University, Sacramento	4,338
$44 \\ 45$	San Jose State University University of Georgia	4,278 4,237
46	University of Maryland, Baltimore County	4,157
47	The University of Texas at El Paso	4,090
$48 \\ 49$	University of California, Los Angeles University of Tennessee, Knoxville	4,018
$\frac{49}{50}$	Rutgers, The State University of New Jersey, School of Engineering	$3,962 \\ 3,942$
		0,342

 $^{\ast}$  Enrollment is full time plus part time students.

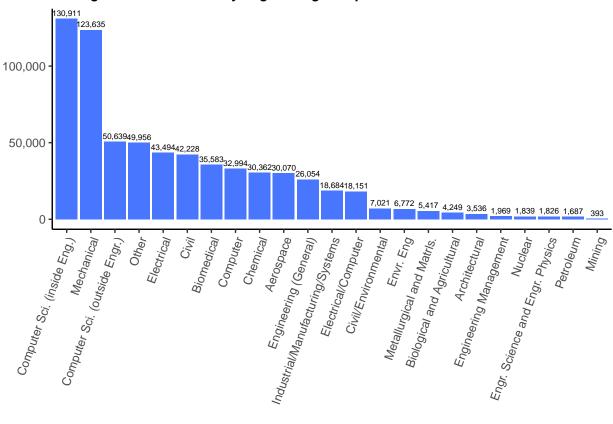
\* Some Institutions do not permit formal enrollment in their engineering colleges until the second or third year.

Discipline Name	Enrollments
Computer Sci. (inside Eng.)	130,911
Mechanical	123,635
Computer Sci. (outside Engr.)	50,639
Other	49,956
Electrical	43,494
Civil	42,228
Biomedical	35,583
Computer	32,994
Chemical	30,362
Aerospace	30,070
Engineering (General)	26,054
Industrial/Manufacturing/Systems	18,684
Electrical/Computer	18,151
Civil/Environmental	7,021
Envr. Eng	6,772
Metallurgical and Matrls.	5,417
Biological and Agricultural	4,249
Architectural	3,536
Engineering Management	1,969
Nuclear	1,839
Engr. Science and Engr. Physics	1,826
Petroleum	1,687
Mining	393

Table 31: Undergraduate Enrollment by Engineering Discipline: 616,831

<sup>\*</sup> Total does not include Computer Science (outside engineering)

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



#### Undergraduate Enrollment by Engineering Discipline

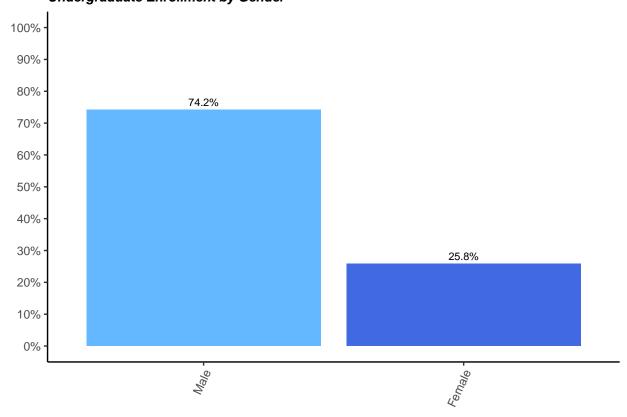
#### 1.2.4 Undergraduate Enrollment by Engineering Discipline:(Full time and Part time)

Discipline Name	Full Time	Part Time
Aerospace	30,070	2,314
Architectural	$3,\!536$	169
Biological and Agricultural	4,249	175
Biomedical	$35,\!583$	1,483
Chemical	30,362	2,038
Civil	42,228	4,122
Civil/Environmental	7,021	638
Computer	32,994	$3,\!341$
Computer Sci. (inside Eng.)	130,911	22,355
Electrical	$43,\!494$	11,882
Electrical/Computer	$18,\!151$	1,161
Engineering (General)	26,054	3,332
Engineering Management	1,969	100
Engr. Science and Engr. Physics	1,826	63
Envr. Eng	6,772	505
Industrial/Manufacturing/Systems	$18,\!684$	2,931
Mechanical	$123,\!635$	14,109
Metallurgical and Matrls.	$5,\!417$	377
Mining	393	20
Nuclear	1,839	114
Other	49,956	4,014
Petroleum	$1,\!687$	180

Table 32: Undergraduate Enrollment by Engineering Discipline:(Full time and Part time)

#### 1.2.5 Undergraduate Enrollment by Gender

Gender	Percentage
Female	24.6%
Male	75.4%

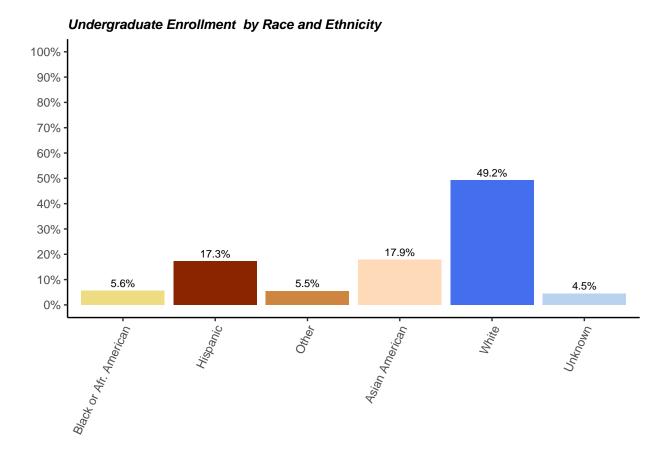


Undergraduate Enrollment by Gender

# 1.2.6 Undergraduate Enrollment by Race and Ethnicity

Table 34: Undergraduate Enrollment by Race and Ethnicity *
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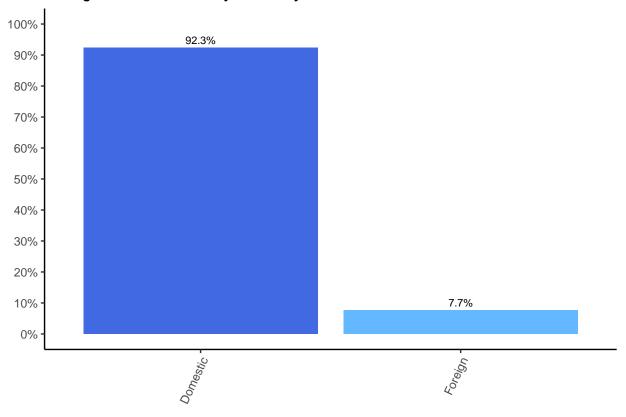
Ethnicity	Percentage
Black or Afr. American	5.4%
Hispanic	15.8%
Other	5%
Asian American	16.1%
White	53.4%
Unknown	4.2%



1.2.7 Undergraduate Enrollment by Residency

Table 35: Undergraduate Enrollment by Residency

Nationality	Percentage
Domestic	92.1%
Foreign	7.9%



#### Undergraduate Enrollment by Residency

# 2 ENGINEERING MASTER'S

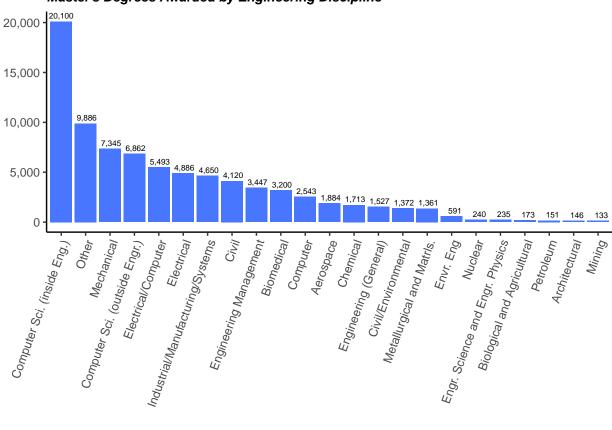
# 2.1 ENGINEERING MASTER'S DEGREE

#### 2.1.1 Master's Degrees Awarded by Engineering Discipline

Discipline Name	Degrees Awarded
Computer Sci. (inside Eng.)	20,100
Other	9,886
Mechanical	7,345
Computer Sci. (outside Engr.)	6,862
Electrical/Computer	$5,\!493$
Electrical	4,886
Industrial/Manufacturing/Systems	$4,\!650$
Civil	4,120
Engineering Management	$3,\!447$
Biomedical	3,200
Computer	2,543
Aerospace	1,884
Chemical	1,713
Engineering (General)	1,527
Civil/Environmental	1,372
Metallurgical and Matrls.	1,361
Envr. Eng	591
Nuclear	240
Engr. Science and Engr. Physics	235
Biological and Agricultural	173
Petroleum	151
Architectural	146
Mining	133

Table 36: Master's Degrees by discipline: 75,196

<sup>\*</sup> Total does not include computer science (outside engineering).





#### 2.1.2 Total Master's Degrees Awarded to Underrepresented Minorities by Engineering Discipline

Table 37: Master's Degrees Awarded to Underrepresented Minorities by Engineering Discipline: 5,472

Discipline Name	Degrees Awarded
Mechanical	757
Other	709
Computer Sci. (inside Eng.)	680
Civil	466
Industrial/Manufacturing/Systems	403
Engineering Management	400
Biomedical	351
Electrical	335
Computer Sci. (outside Engr.)	294
Electrical/Computer	288
Aerospace	195
Chemical	175
Engineering (General)	164
Civil/Environmental	145
Computer	118
Metallurgical and Matrls.	106
Envr. Eng	73
Nuclear	24
Petroleum	24
Engr. Science and Engr. Physics	18
Biological and Agricultural	15
Architectural	14
Mining	12
* Total doos not include computer science (ou	taido onginoaring)

<sup>\*</sup> Total does not include computer science (outside engineering).

#### 2.1.3 Percentage of Master's Degrees Awarded to Underrepresented Minorities by Discipline

Table 38: Percentage of Master's Degrees Awarded to Underrepresented Minorities by Discipline 7 % of Total

Discipline Name	Percent Women
Petroleum	15.9%
Envr. Eng	12.4%
Engineering Management	11.6%
Civil	11.3%
Biomedical	11%
Engineering (General)	10.7%
Civil/Environmental	10.6%
Aerospace	10.4%
Mechanical	10.3%
Chemical	10.2%
Nuclear	10%
Architectural	9.6%
Mining	9%
Biological and Agricultural	8.7%
Industrial/Manufacturing/Systems	8.7%
Metallurgical and Matrls.	7.8%
Engr. Science and Engr. Physics	7.7%
Other	7.2%
Electrical	6.9%
Electrical/Computer	5.2%
Computer	4.6%
Computer Sci. (outside Engr.)	4.3%
Computer Sci. (inside Eng.)	3.4%

## 2.1.4 Percentage of Master's Degrees Awarded to Women by Discipline

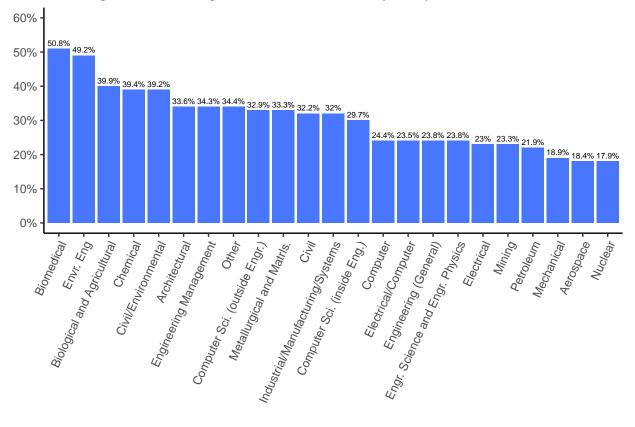
Table 39: Percentage of Master's Degrees Awarded to Women by Discipline 30 % of Total

Discipline Name	Percent Women
Biomedical	50.8%
Envr. Eng	49.2%
Biological and Agricultural	39.9%
Chemical	39.4%
Civil/Environmental	39.2%
Other	34.4%
Engineering Management	34.3%
Architectural	33.6%
Metallurgical and Matrls.	33.3%
Computer Sci. (outside Engr.)	32.9%

Discipline Name	Percent Women
Civil	32.2%
Industrial/Manufacturing/Systems	32%
Computer Sci. (inside Eng.)	29.7%
Computer	24.4%
Engineering (General)	23.8%
Engr. Science and Engr. Physics	23.8%
Electrical/Computer	23.5%
Mining	23.3%
Electrical	23%
Petroleum	21.9%
Mechanical	18.9%
Aerospace	18.4%
Nuclear	17.9%

Table 39: Percentage of Master's Degrees Awarded to Women by Discipline 30 % of Total *(continued)* 

Percentage of Master's Degrees Awarded to Women by Discipline

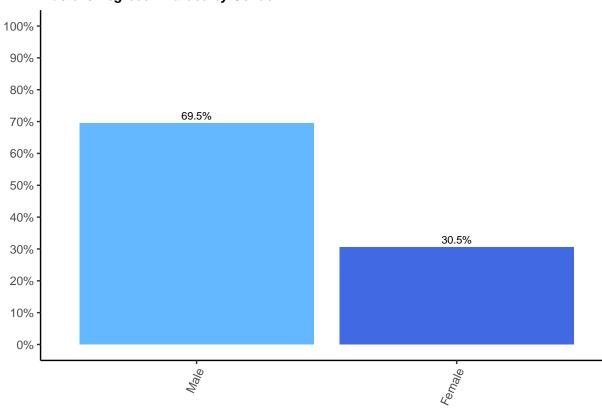


2.1.5 Master's Degrees Awarded by Gender

Table 40: Master's Degrees Awarded by Gender

Gender	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Female	23.00%	, .	22.60%	23.10%		24.20%		25.70%		27.30%	28.10%	29.00%	29.90%
Male	77.00%	77.40%	81.60%	76.90%	76.10%	75.80%	74.60%	74.30%	73.30%	72.70%	71.90%	71.00%	70.10%



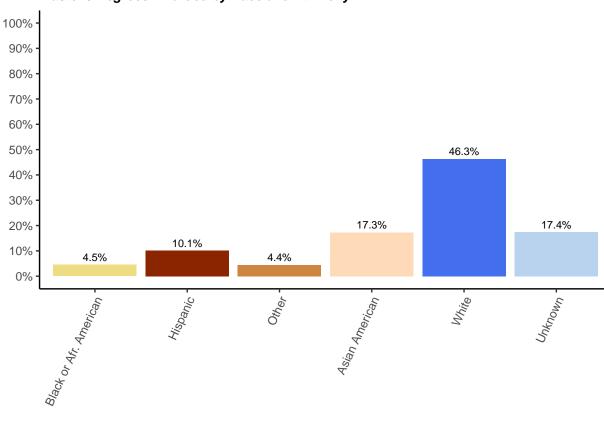


#### 2.1.6 Master's Degrees Awarded by Race and Ethnicity

Table 41: Master's Degrees Awarded by Ethnicity

Ethnicity	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Black or Afr. American	4.7%	5.1%	4.9%	4.7%	4.7%	4.4%	4.7%	4.7%	4.8%	4.8%	5.0%	5.0%
Hispanic	5.3%	6.0%	6.3%	7.3%	7.6%	7.7%	8.3%	8.5%	8.8%	9.2%	9.4%	9.4%
Other	17.4%	1.4%	1.5%	2.0%	2.2%	2.6%	3.0%	3.1%	3.8%	3.9%	3.6%	3.6%
Asian American	15.1%	14.9%	15.5%	14.5%	15.0%	14.5%	15.1%	15.1%	15.8%	16.3%	15.8%	16.8%
White	57.5%	60.9%	58.2%	59.7%	59.5%	60.2%	59.5%	60.1%	58.2%	55.4%	55.2%	54.5%
Unknown	0%	11.7%	13.6%	11.8%	11.0%	10.6%	9.4%	8.4%	8.6%	10.4%	10.9%	10.7%

\*Data on ethnicity does not include foreign nationals. American Indian/Alaska Native (0.3%), Native Hawaiian/Other Pacific Islander(0.1%) and Multiracial (4.1%) are combined under Other.



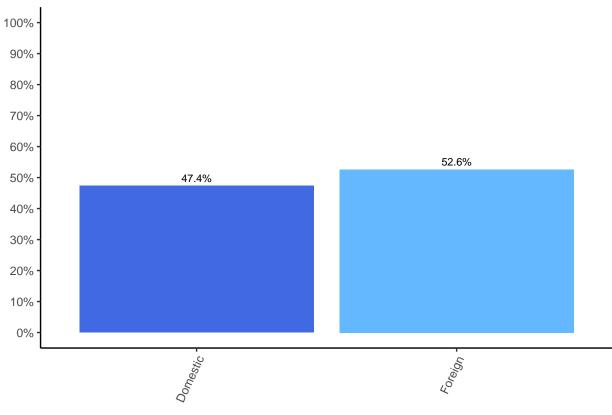
Master's Degrees Awarded by Race and Ethnicity

# 2.1.7 Master's Degrees Awarded by Residency

Table 42: Master's Degrees Awarded by Residency

Nationality	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Foreign	46.1%	44.4%	43.3%	45.3%	47.5%	52.6%	58.1%	59.2%	57.1%	53.6%	53.2%	51.7%
Domestic	53.9%	55.6%	56.7%	54.7%	52.5%	47.4%	41.9%	40.8%	42.9%	46.4%	46.8%	48.3%





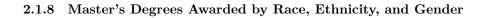


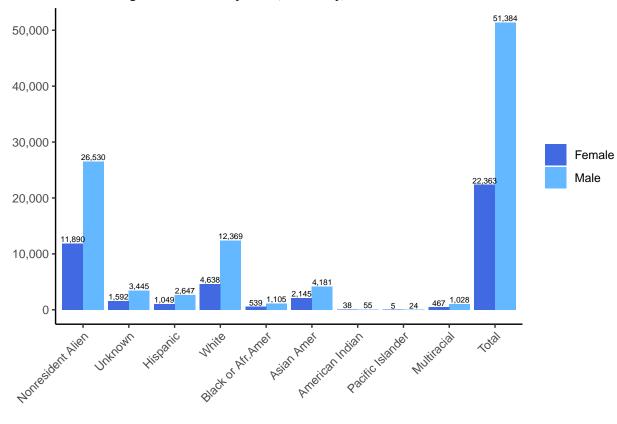
Table 43: Master's Degrees Awarded by Race, Ethnicity, and Gender 75,196\*

Ethnicity	Degrees Awarded
Nonresident Alien Male	26,530
Nonresident Alien Female	11,890
Unknown Male	3,445
Unknown Female	1,592
Hispanic Male	2,647
Hispanic Female	1,049
White Male	12,369
White Female	4,638
Black or Afr. American Male	1,105
Black or Afr. American Female	539
Asian American Male	4,181
Asian American Female	2,145
American Indian Male	55
American Indian Female	38
Native Hawaiian/Other Pacific Islander Male	24
Native Hawaiian/Other Pacific Islander Female	5
Multiracial Male	1,028
Multiracial Female	467
Total Male	51,384
Total Female	22,363

 $^{\ast}$  Total degree includes 18 total Non binary graduates and 1,435 total Other Gender graduates.

 $^{\ast}$  Includes 37 male and 15 female graduates from Puerto Rico.

#### Master's Degrees Awarded by Race, Ethnicity, and Gender



#### 2.1.9 Top 50 Institutions Awarding Engineering Master's Degrees

Table 44: Top 50 Institutions Awarding Engineering Master's De-	Table 44	: Top 50	Institutions	Awarding	Engineering	Master's D	e-
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grees

No	Institutions	Degrees Awarded
1	University of Southern California	3,271
2	Northeastern University	2,878
3	Fu Foundation School of Engineering and Applied Science - Columbia University	2,579
4	Arizona State University	2,527
5	NYU Tandon School of Engineering	2,337
6	Carnegie Mellon University	2,327
7	Georgia Institute of Technology	2,149
8	University of Michigan	1,590
9	University of Illinois at Urbana-Champaign	1,521
10	University at Buffalo, SUNY	1,482
11	University of California, San Diego	1,418
12	University of Pennsylvania	1,388
13	Stevens Institute of Technology	1,345
14	Cornell University	1,335
15	North Carolina State University	1,272
16	The University of Texas at Arlington	1,268
17	Stanford University	1,224
18	University of North Texas	1,147
19	Texas A&M University	1,093
20	University of California, Berkeley	1,082
21	University of Florida	1,079
22	Northwestern University	1,000
23	New Jersey Institute of Technology	993
24	San Jose State University	976
24	The Johns Hopkins University	976
26	The University of Texas at Dallas	913
27	University of Colorado Boulder	888
28	University of Washington in Seattle	873
29	Massachusetts Institute of Technology	868
30	George Mason University	854
31	Duke University	805
32	Virginia Polytechnic Institute and State University	795
33	University of California, Los Angeles	773
34	University of Maryland, Baltimore County	758
35	Purdue University	705
36	University of Missouri - Kansas City	664
37	The University of Texas at Austin	645
38	University of Wisconsin-Madison	631
39	Washington University in St. Louis	613
40	University of California, Irvine	611
41	The George Washington University	605
42	University of Cincinnati	593
43	University of Maryland, College Park	584
44	University of Central Florida	566
45	Worcester Polytechnic Institute	539
46	Stony Brook University	537

No	Institutions	Degrees Awarded
47	Boston University	531
48	Rutgers, The State University of New Jersey, School of Engineering	529
49	Illinois Institute of Technology	528
50	William Marsh Rice University	517

\* 278 Institutions included

# 2.1.10 Top 20 Institutions by Total Master's Degrees awarded to Underrepresented Minorities

Table 45: Top 20 Institutions by Total Master's Degrees awarded to Underrepresented Minorities

No	Institutions	Degrees Awarded
1	Florida International University	208
2	The University of Texas at El Paso	186
3	University of Southern California	139
4	Arizona State University	138
5	University of Central Florida	135
6	Stanford University	133
7	Georgia Institute of Technology	128
8	University of Florida	124
9	Cornell University	105
10	New Jersey Institute of Technology	97
11	NYU Tandon School of Engineering	96
12	Massachusetts Institute of Technology	86
13	University of California, Berkeley	84
14	Carnegie Mellon University	82
14	University of Michigan	82
16	University of Colorado Boulder	81
17	Texas A&M University	80
18	The George Washington University	75
19	The University of Texas at San Antonio	72
20	The University of New Mexico	71

\* 278 Institutions included

#### 2.1.11 Top 50 Institutions by Percentage of Master's Degrees awarded to Underrepresented Minorities

Table 46: Top 50 Institutions by Percentage of Master's Degrees awarded to Underrepresented Minorities

No	Institutions	Percent Underrepresented Minorities
1	University of Puerto Rico, Mayaguez Campus	100%
2	Alabama A & M University	73.5%
3	The University of Texas Rio Grande Valley	67.6%
4	The University of Texas at El Paso	66.9%
5	Florida Agricultural and Mechanical University	66.7%
6	North Carolina A&T State University	51.7%
7	Southern University and A & M College	51.5%
8	Bucknell University	50%
8	Capitol Technology University	50%
8	Jackson State University	50%
8	The University of Texas of the Permian Basin	50%
8	United States Merchant Marine Academy	50%
8	University of South Dakota	50%
14	St. Mary's University	48.1%
15	Prairie View A & M University	47.8%
16	Florida International University	46.2%
17	Norwich University	40%
17	SUNY University at Buffalo	40%
19	The University of Texas at San Antonio	39.3%
20	New Mexico State University	34.1%
21	The University of New Mexico	33.5%
22	Florida Polytechnic University	33.3%
22	Tuskegee University	33.3%
22	University of the District of Columbia	33.3%
25	University of Nevada, Las Vegas	31%
26	Loyola Marymount University	29.9%
27	New Mexico Institute of Mining and Technology	29%
28	Kennesaw State University	28.4%
29	University of San Diego	27.3%
30	Tennessee State University	26.1%
31	Howard University	25%
32	University of Central Florida	23.9%
33	Embry-Riddle Aeronautical University-Worldwide	22.8%
34	Christian Brothers University	22.7%
35	Oklahoma Christian University	22.4%
36	Southern Methodist University	22.2%
37	University of Arizona	21.5%
38	Gonzaga University	21.4%
39	Old Dominion University	20.6%

Table 46: Top 50 Institutions by Percenta	age of Master's Degrees
awarded to Underrepresented Minorities (	(continued)

No	Institutions	Percent Underrepresented Minorities
40	Princeton University	20.5%
41	University of Southern Mississippi	20%
42	California State University, Northridge	18.3%
43	Florida Atlantic University	18.2%
43	University of Louisiana at Lafayette	18.2%
45	Louisiana State University	18.1%
46	Manhattan College	18%
47	Hofstra University	17.6%
48	The University of Memphis	17.3%
49	City College of the City University of New York	17.2%
50	FAMU-FSU College of Engineering	16.9%

<sup>\*</sup> 278 Institutions included

#### 2.1.12 Top 20 Institutions Awarding Highest Percentage of Master's Degrees to Women

Table 47: Top 20 Highest Percentage of Master's Degrees to Women

No	Institutions	Percent Women
1	University of North Carolina at Chapel Hill	76.9%
2	University of Portland	75%
3	SUNY College of Environmental Science and Forestry	71.4%
4	Alabama A & M University	58.8%
5	University of Washington-Tacoma	58.3%
6	California State University-East Bay	57.6%
7	Texas State University	51.5%
8	Alfred University, NY State College of Ceramics	50%
8	Bucknell University	50%
8	Lipscomb University	50%
8	Mississippi College	50%
8	State University of New York at New Paltz	50%
8	Thomas Jefferson University	50%
8	University of South Dakota	50%
8	University of the District of Columbia	50%
16	Villanova University	49.3%
17	Seattle University	47.9%
18	Florida Agricultural and Mechanical University	46.7%
19	Harvard University	44.1%
20	Loyola Marymount University	43.3%

\* 278 included

# 2.1.13 Top 20 Institutions by Total Master's Degrees awarded in Engineering (General)

Table 48: Top 20 Institutions by Total Master's Degrees awarded in Engineering (General)

No	Institutions Degrees Awar					
1	University at Buffalo, SUNY	452				
2	University of California, Los Angeles	213				
3	Arizona State University	126				
4	Oklahoma Christian University	60				
5	University of Massachusetts Lowell	56				
6	The George Washington University	40				
7	Lamar University	39				
8	San Jose State University	37				
9	Texas Tech University	34				
10	Texas A&M University	31				
10	Texas State University	31				
12	San Francisco State University	29				
13	University of Wisconsin, Platteville	28				
14	University of Georgia	25				
14	University of the Pacific	25				
16	Saint Louis University	23				
17	Purdue University Fort Wayne	22				
18	The University of Tennessee-Chattanooga	21				
19	Dartmouth College	18				
20	California State University-Fresno					

\* 49 Institutions included

# 2.2 ENGINEERING MASTER'S ENROLLMENT

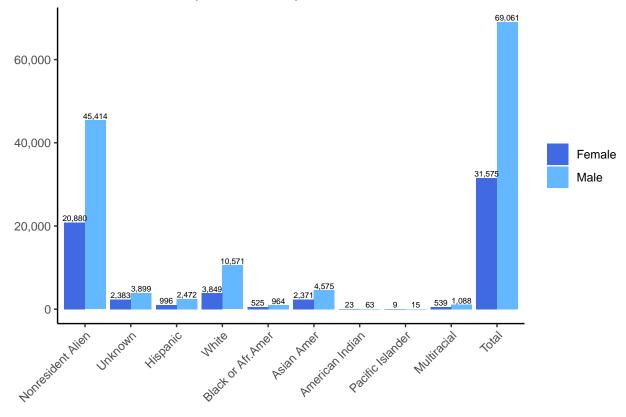
# 2.2.1 Master's Enrollment by Race, Ethnicity, and Gender

Ethnicity	Enrollments
Nonresident Alien Male	45,414
Nonresident Alien Female	20,880
Unknown Male	$3,\!899$
Unknown Female	2,383
Hispanic Male	2,472
Hispanic Female	996
White Male	10,571
White Female	3,849
Black or Afr. American Male	964
Black or Afr. American Female	525
Asian American Male	4,575
Asian American Female	$2,\!371$
American Indian Male	63
American Indian Female	23
Native Hawaiian/Other Pacific Islander Male	15
Native Hawaiian/Other Pacific Islander Female	9
Multiracial Male	1,088
Multiracial Female	539
Total Male	69,061
Total Female	31,575

Table 49: Master's Enrollment Awarded by Race, Ethnicity, and Gender 102,623\*

\* Total Enrollment includes is for full time students\* Includes 109 male and 45 female.





#### 2.2.2 Top 50 Institutions with Highest Graduate Enrollment

Table 50: Top 50 Institutions	with Highest	Graduate Enrollment*
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No	Institutions	Enrollment				
1	University of Southern California					
2	Northeastern University	6,820				
3	Arizona State University	$6,\!616$				
4	University of Illinois at Urbana-Champaign	5,981				
5	Georgia Institute of Technology	$5,\!287$				
6	6 Columbia University					
7	Fu Foundation School of Engineering and Applied Science - Columbia University	4,963				
8	University of Pennsylvania	4,844				
9	Texas A&M University	4,089				
10	NYU Tandon School of Engineering					
11 University of Michigan		4,060				
12	Stanford University	3,755				
13	The University of Texas at Arlington	$3,\!596$				
14	North Carolina State University	3,558				
15	University of North Texas	$3,\!480$				
16	Massachusetts Institute of Technology	$3,\!434$				

Table 50:	Top	50	Institutions	with	Highest	Graduate	$\operatorname{Enrollment}^*$
(continued	ļ)						

No	Institutions	Enrollment
17	University of California, San Diego	3,297
18	University at Buffalo, SUNY	3,123
19	Purdue University	3,050
20	George Mason University	3,029
21	Virginia Polytechnic Institute and State University	3,007
22	Cornell University	2,956
23	University of Florida	2,947
24	Carnegie Mellon University	2,908
25	University of Washington in Seattle	2,845
26	Stevens Institute of Technology	2,824
27	The Pennsylvania State University	2,670
28	University of California, Berkeley	2,658
29	The Johns Hopkins University	2,597
30	University of California, Los Angeles	2,530
31	Northwestern University	2,441
32	University of Maryland, Baltimore County	2,392
33	University of Colorado Boulder	2,341
34	The University of Texas at Austin	2,316
35	The George Washington University	2,096
36	University of Central Florida	2,045
37	The University of Texas at Dallas	1,984
38	University of Minnesota -Twin Cities	1,939
39	University of Maryland, College Park	1,919
40	Duke University	1,918
41	The Ohio State University	1,776
42	University of Wisconsin-Madison	1,696
43	Stony Brook University	1,560
44	Texas Tech University	1,542
45	Clemson University	1,514
46	William Marsh Rice University	1,504
47	The State University of New York at Binghamton	1,458
48	Washington University in St. Louis	1,446
49	University of Utah	1,438
50	Colorado School of Mines	1,408

50 Institutions reported. Includes both part time and full time.

#### 2.2.3 Master's Enrollment by Engineering Discipline:(Full time and Part time)

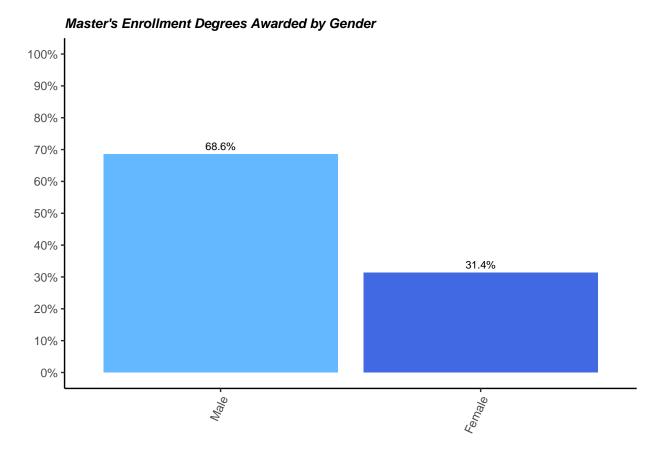
Table 51: Master's Enrollment by Engineering Discipline:(Full time and Part time)

Discipline Name	Full Time	Part Time
Aerospace	$2,\!474$	1,520
Architectural	178	10
Biological and Agricultural	321	62
Biomedical	3,882	968
Chemical	1,739	649
Civil	$5,\!103$	$2,\!458$
Civil/Environmental	1,523	402
Computer	3,546	1,001
Computer Sci. (inside Eng.)	32,243	12,328
Electrical	5,767	2,642
Electrical/Computer	7,347	2,015
Engineering (General)	1,632	1,254
Engineering Management	4,251	3,017
Engr. Science and Engr. Physics	226	173
Envr. Eng	660	378
Industrial/Manufacturing/Systems	5,380	3,021
Mechanical	8,880	$3,\!898$
Metallurgical and Matrls.	1,357	556
Mining	80	28
Nuclear	339	166
Other	$15,\!439$	5,742
Petroleum	256	72

#### 2.2.4 Master's Enrollment by Gender

Table 52:	Master's Enrollment by Gender	

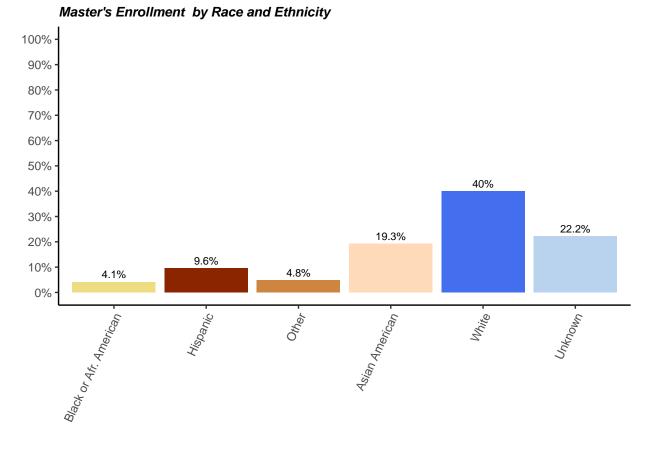
Percentage
29.6%
70.4%



## 2.2.5 Master's Enrollment by Race and Ethnicity

Table 53:	Master's	Enrollment	bv	Race	and	Ethnicity*
10010-001	111000001 0		~./	10000	our or	

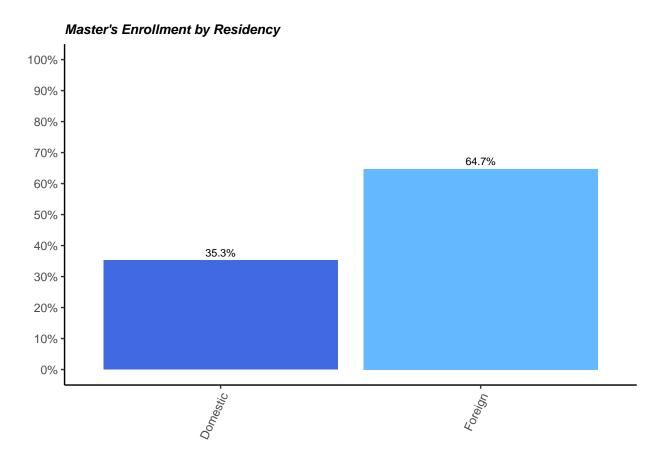
Ethnicity	Percentage
Black or Afr. American	4.5%
Hispanic	10.7%
Other	4.6%
Asian American	18%
White	49.7%
Unknown	12.5%



2.2.6 Master's Enrollment by Residency

Table 54: Master's Enrollment by Residency

Nationality	Percentage
Foreign	59.8%
Domestic	40.2%



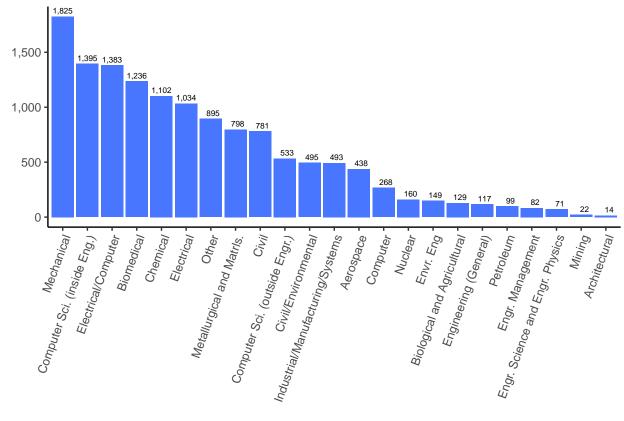
#### ENGINEERING DOCTORAL 3

#### ENGINEERING DOCTORAL DEGREES 3.1

## 3.1.1 Doctoral Degrees Awarded by Engineering Discipline

Discipline Name	Degrees Awarded
Mechanical	1,825
Computer Sci. (inside Eng.)	1,395
Electrical/Computer	1,383
Biomedical	1,236
Chemical	1,102
Electrical	1,034
Other	895
Metallurgical and Matrls.	798
Civil	781
Computer Sci. (outside Engr.)	533
Civil/Environmental	495
Industrial/Manufacturing/Systems	493
Aerospace	438
Computer	268
Nuclear	160
Envr. Eng	149
Biological and Agricultural	129
Engineering (General)	117
Petroleum	99
Engr. Management	82
Engr. Science and Engr. Physics	71
Mining	22
Architectural	14

Table 55: Doctoral Degrees by discipline: 12,986



Doctoral Degrees Awarded by Engineering Discipline

#### 3.1.2 Total Doctoral Degrees Awarded to Underrepresented Minorities by Engineering Discipline

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Table 56: Doctoral Degrees Awarded to Underrepresented Minorities by Engineering Discipline: 745

Discipline Name	Degrees Awarded
Biomedical	116
Mechanical	110
Other	73
Chemical	64
Metallurgical and Matrls.	55
Computer Sci. (inside Eng.)	46
Civil	42
Electrical/Computer	42
Civil/Environmental	38
Electrical	32
Aerospace	27
Industrial/Manufacturing/Systems	22
Engr. Management	18
Computer Sci. (outside Engr.)	15
Envr. Eng	13
Nuclear	13
Engineering (General)	10
Computer	8
Petroleum	6
Biological and Agricultural	5
Mining	3
Engr. Science and Engr. Physics	2
Architectural	0

<sup>\*</sup> Total does not include computer science (outside engineering).

#### 3.1.3 Percentage of Doctoral Degrees Awarded to Underrepresented Minorities by Discipline

Table 57: Percentage of Doctoral Degrees Awarded to Underrepresented Minorities by Discipline 5.6 % of Total

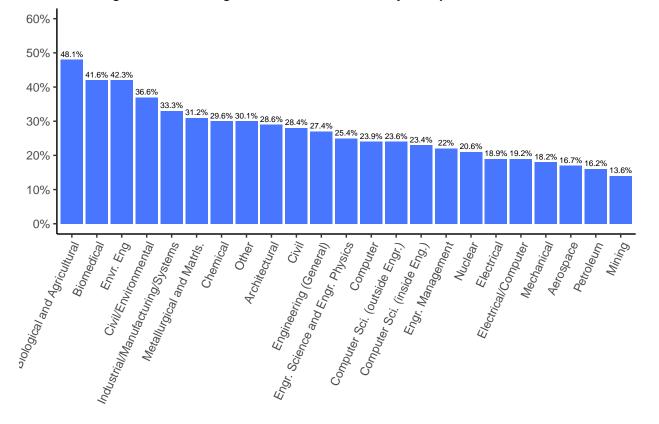
Discipline Name	Percent Women
Engr. Management	22%
Mining	13.6%
Biomedical	9.4%
Envr. Eng	8.7%
Engineering (General)	8.5%
Other	8.2%
Nuclear	8.1%
Civil/Environmental	7.7%
Metallurgical and Matrls.	6.9%
Aerospace	6.2%
Petroleum	6.1%
Mechanical	6%
Chemical	5.8%
Civil	5.4%
Industrial/Manufacturing/Systems	4.5%
Biological and Agricultural	3.9%
Computer Sci. (inside Eng.)	3.3%
Electrical	3.1%
Computer	3%
Electrical/Computer	3%
Computer Sci. (outside Engr.)	2.8%
Engr. Science and Engr. Physics	2.8%
Architectural	0%

#### 3.1.4 Percentage of Doctoral Degrees Awarded to Women by Discipline

Table 58: Percentage of Doctoral Degrees Awarded to Women by Discipline 26.3 % of Total

Discipline Name	Percent Women
Biological and Agricultural	48.1%
Envr. Eng	42.3%
Biomedical	41.6%
Civil/Environmental	36.6%
Industrial/Manufacturing/Systems	33.3%
Metallurgical and Matrls.	31.2%
Other	30.1%
Chemical	29.6%
Architectural	28.6%
Civil	28.4%
Engineering (General)	27.4%
Engr. Science and Engr. Physics	25.4%
Computer	23.9%
Computer Sci. (outside Engr.)	23.6%
Computer Sci. (inside Eng.)	23.4%
Engr. Management	22%
Nuclear	20.6%
Electrical/Computer	19.2%
Electrical	18.9%
Mechanical	18.2%
Aerospace	16.7%
Petroleum	16.2%
Mining	13.6%

Percentage of Doctoral Degrees Awarded to Women by Discipline

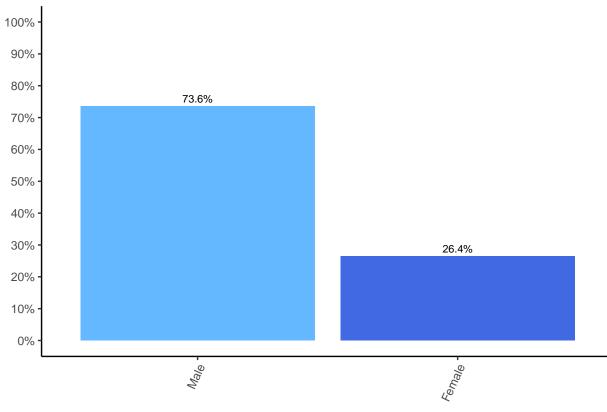


3.1.5 Doctoral Degrees Awarded by Gender

Table 59: Doctoral Degrees Awarded by Gender

Gender	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Female	21.20%	22.90%	21.80%	22.20%	22.40%	22.20%	23.30%	23.50%	23.60%	24.10%	23.90%	74.30%	26.20%
Male	78.80%	77.10%	78.20%	77.80%	77.60%	77.80%	76.70%	76.50%	76.40%	75.90%	76.10%	25.70%	73.80%

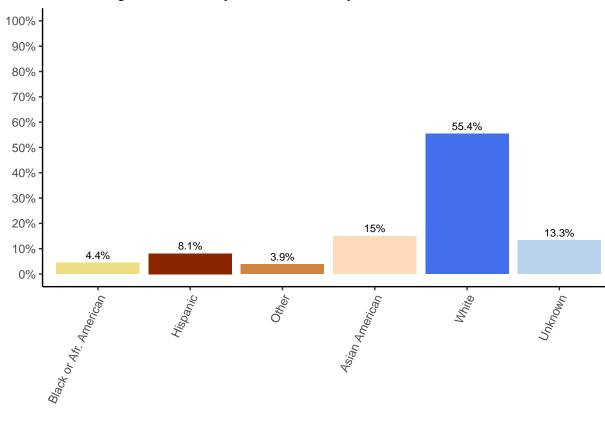




# 3.1.6 Doctoral Degrees Awarded by Race and Ethnicity

Table 60: Doctoral Degrees Awarded by Ethnicity

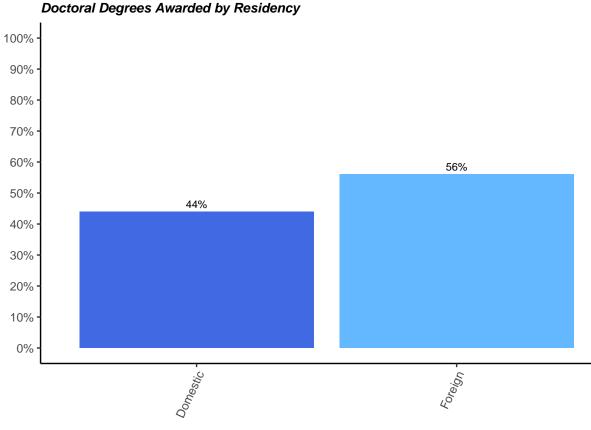
Ethnicity	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Black or Afr. American	4.4%	3.5%	4.1%	4.1%	3.6%	3.2%	4.4%	3.8%	4.2%	3.9%	3.6%	3.9%
Hispanic	5.2%	4.2%	4.1%	4.7%	5.1%	6.1%	5.7%	6.3%	6.0%	6.1%	6.9%	7.5%
Other	1.0%	1.6%	1.7%	1.7%	1.6%	2.2%	3.1%	2.9%	2.9%	2.8%	3.6%	3.6%
Asian American	14.0%	15.1%	14.1%	13.5%	10.4%	14.1%	14.9%	14.8%	13.9%	15.3%	15.3%	13.9%
White	65.7%	60.3%	61.1%	61.8%	65.1%	62.9%	62.0%	62.2%	62.0%	61.1%	61%	58.4%
Unknown	9.7%	15.3%	14.9%	14.2%	14.2%	11.5%	9.9%	10.0%	11.1%	10.8%	9.6%	12.6%



Doctoral Degrees Awarded by Race and Ethnicity

Table 61: Doctoral Degrees Awarded by Residency

Nationality	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Foreign	54.2%	54.2%	53.3%	55.1%	54.8%	54.7%	54.8%	55.7%	56.3%	56.5%	58.8%	58.5%
Domestic	45.8%	45.8%	46.7%	44.9%	45.2%	45.3%	45.2%	44.3%	43.7%	43.5%	41.2%	41.5%



# 3.1.8 Doctoral Degrees Awarded by Race, Ethnicity, and Gender

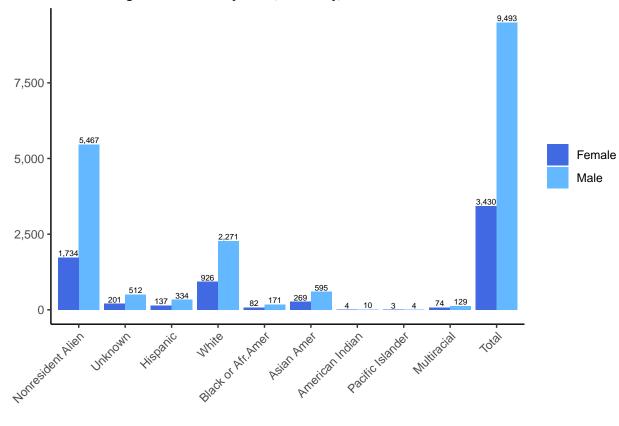
Table 62: Doctoral Degrees Awarded by Race, Ethnicity, and Gender 12,986\*

Ethnicity	Degrees
Nonresident Alien Male	5,467
Nonresident Alien Female	1,734
Unknown Male	512
Unknown Female	201
Hispanic Male	334
Hispanic Female	137
White Male	2,271
White Female	926
Black or Afr. American Male	171
Black or Afr. American Female	82
Asian American Male	595
Asian American Female	269
American Indian Male	10
American Indian Female	4
Native Hawaiian/Other Pacific Islander Male	4
Native Hawaiian/Other Pacific Islander Female	3
Multiracial Male	129
Multiracial Female	74
Total Male	9,493
Total Female	3,430

\* Total degree includes 2 total Non binary graduates and 61 total Other Gender graduates.

\* Includes 6 male and6 female graduates from Puerto Rico.

Doctoral Degrees Awarded by Race, Ethnicity, and Gender



#### 3.1.9 Top 50 Institutions Awarding Engineering Doctoral Degrees

Table 63: Top 50 Institutions Awarding Engineering Doctoral Degrees

No	Institutions	Degrees Awarded
1	Georgia Institute of Technology	403
2	Purdue University	382
3	Massachusetts Institute of Technology	368
4	Stanford University	320
5	Texas A&M University	318
6	University of Illinois at Urbana-Champaign	317
7	University of Michigan	316
8	University of California, Berkeley	279
9	The University of Texas at Austin	246
10	Virginia Polytechnic Institute and State University	239
11	Carnegie Mellon University	238
12	University of California, San Diego	225
13	North Carolina State University	208
14	The Pennsylvania State University	193
15	University of Maryland, College Park	189
16	University of California, Los Angeles	185
17	The Ohio State University	183
18	University of Washington in Seattle	182
19	Cornell University	177
20	Arizona State University	174
21	University of Florida	169
22	The Johns Hopkins University	168
22	University of Southern California	168
24	University of Minnesota -Twin Cities	157
25	Fu Foundation School of Engineering and Applied Science - Columbia University	156
26	University of Wisconsin-Madison	151
27	Iowa State University	150
28	University of California, Irvine	149
29	Northwestern University	144
30	University of Virginia	134
31	University of Colorado Boulder	132
32	Northeastern University	131
33	Colorado School of Mines	128
33	University of California, Davis	128
35	Michigan State University	126
36	University of Central Florida	124
37	Duke University	118
37	William Marsh Rice University	118
39	Boston University	117
40	Princeton University	114
41	University of Delaware	111

Table 63: Top 50 Institutions Awarding Engineering Doctoral Degrees (continued)

No	Institutions	Degrees Awarded
42	Auburn University	110
43	University of Utah	109
44	Clemson University	108
45	The University of Texas at Dallas	106
45	University of Tennessee, Knoxville	106
47	Rutgers, The State University of New Jersey, School of Engineering	104
48	University at Buffalo, SUNY	99
49	University of Pennsylvania	98
50	Rensselaer Polytechnic Institute	93

\* 187 Institutions reported. Includes both part time and full time

# 3.1.10 Top 20 Institutions by Total Doctoral Degrees awarded to Underrepresented Minorities

Table 64: Top 20 Institutions by Total Doctoral Degrees awarded to Underrepresented Minorities

No	Institutions	Degrees Awarded
1	University of California, Berkeley	29
1	University of Michigan	29
3	Georgia Institute of Technology	28
4	Stanford University	23
5	Massachusetts Institute of Technology	22
6	Purdue University	21
6	University of Florida	21
8	Texas A&M University	20
9	The University of Texas at El Paso	17
9	University of Illinois at Urbana-Champaign	17
11	The George Washington University	16
11	University of California, San Diego	16
13	Virginia Polytechnic Institute and State University	14
14	Cornell University	13
14	North Carolina A&T State University	13
14	Northwestern University	13
17	Arizona State University	12
17	Carnegie Mellon University	12
17	University of Maryland, College Park	12
17	University of Puerto Rico, Mayaguez Campus	12
* 18'	7 Institutions included	

# 3.1.11 Top 50 Institutions by Percentage of Doctoral Degrees awarded to Underrepresented Minorities

Table 65: Top 50 Institutions by Percentage of Doctoral Degrees awarded to Underrepresented Minorities

No	Institutions	Percent Underrepresented Minorities
1	Capitol Technology University	100%
1	Tuskegee University	100%
1	University of Puerto Rico, Mayaguez Campus	100%
4	Florida Agricultural and Mechanical University	75%
4	University of the District of Columbia	75%
6	Jackson State University	60%
7	Saint Louis University	50%
8	North Carolina A&T State University	39.4%
9	The University of Texas at El Paso	37%
10	Louisiana Tech University	33.3%
10	University of Detroit Mercy	33.3%
12	San Diego State University	28.6%
13	Baylor University	20%
13	University of Southern Mississippi	20%
15	University of Nevada, Las Vegas	18.2%
16	The George Washington University	17.8%
17	University of North Carolina at Chapel Hill	16.7%
18	Old Dominion University	16.2%
19	University of Maryland, Baltimore County	14.6%
20	Boise State University	13.3%
20	University of Louisiana at Lafayette	13.3%
22	Florida International University	12.5%
23	University of Florida	12.4%
24	The University of New Mexico	11.8%
25	Tufts University	11.4%
26	Florida Atlantic University	11.1%
26	Rochester Institute of Technology	11.1%

Table 65: Top 50 Institutions by Percent	tage of Doctoral Degrees
awarded to Underrepresented Minorities	(continued)

No	Institutions	Percent Underrepresented Minorities
28	University of Arizona	10.5%
29	University of California, Berkeley	10.4%
30	Texas Tech University	10.2%
31	University of Hawaii at Manoa	10%
32	New Mexico State University	9.5%
33	University of Michigan	9.2%
34	Howard University	9.1%
34	Virginia Commonwealth University	9.1%
36	Northwestern University	9%
37	University of Pittsburgh	9%
38	University of Central Florida	8.9%
39	Syracuse University	8.8%
40	University of Bridgeport	8.3%
41	Harvard University	8.2%
42	University of Notre Dame	8%
43	University of Massachusetts Lowell	8%
44	City College of the City University of New York	7.9%
45	The University of Texas at Arlington	7.8%
46	The University of Alabama in Huntsville	7.7%
47	Louisiana State University	7.5%
47	University of Tennessee, Knoxville	7.5%
49	University of Kansas	7.5%
50	Cornell University	7.3%

\* 187 Institutions included

#### 3.1.12 Top 20 Institutions Awarding Highest Percentage of Doctoral Degrees to Women

Table 66: Top 20 Highest Percentage of Doctoral Degrees to Women

No	Institutions	Percent Women
1	Capitol Technology University	100%
1	University of North Carolina at Chapel Hill	100%
3	Northern Arizona University	75%
4	SUNY College of Environmental Science and Forestry	66.7%
4	University of Detroit Mercy	66.7%
6	Jackson State University	60%
7	Ohio University	53.8%
8	Alfred University	50%
8	Saint Louis University	50%
8	The University of Alabama in Huntsville	50%
8	University of Massachusetts Dartmouth	50%
8	University of Puerto Rico, Mayaguez Campus	50%
13	Southern Illinois University Carbondale	45.5%
14	City College of the City University of New York	44.7%
15	The State University of New York at Binghamton	43.2%
16	Tufts University	42.9%
16	University of New Hampshire	42.9%
18	Texas State University	40%
18	University of Southern Mississippi	40%
20	Northwestern University	39.6%

<sup>\*</sup> 187 Institutions included

# 3.1.13 Top 50 Institutions Awarding Doctoral Degrees to Foreign Nationals

Table 67: Top 50 Institutions Awarding Doctoral Degrees to Foreign Nationals

No	Institutions	Dogwood Arrondod
	Institutions	Degrees Awarded
1	Purdue University	248
2	University of Illinois at Urbana-Champaign	219
3	Texas A&M University	216
4	Georgia Institute of Technology	199
5	Massachusetts Institute of Technology	170
6	University of Michigan	148
7	The University of Texas at Austin	144
8	Stanford University	140
9	Carnegie Mellon University	134
10	Virginia Polytechnic Institute and State University	124
11	University of California, Los Angeles	123
12	Arizona State University	122
12	North Carolina State University	122
14	The Ohio State University	119
15	University of Southern California	115
16	The Pennsylvania State University	113
17	University of California, San Diego	105

Table 67: Top	50 Institutions	Awarding	Doctoral	Degrees	$\operatorname{to}$	For-
eign Nationals	(continued)					

No	Institutions	Degrees Awarded
17	University of Maryland, College Park	105
19	University of California, Berkeley	103
20	Iowa State University	102
21	The Johns Hopkins University	98
22	University of Florida	97
23	Cornell University	95
24	Northeastern University	94
24	University of California, Irvine	94
26	University of Minnesota -Twin Cities	88
27	The University of Texas at Dallas	87
28	Michigan State University	82
29	University of Washington in Seattle	80
30	University at Buffalo, SUNY	78
30	University of Wisconsin-Madison	78
32	Auburn University	77
33	University of Virginia	72
34	Stony Brook University	71
35	Princeton University	69
35	Rutgers, The State University of New Jersey, School of Engineering	69
37	William Marsh Rice University	68
38	Boston University	67
39	Clemson University	66
39	University of Illinois at Chicago	66
41	University of California, Riverside	64
41	University of Central Florida	64
43	Duke University	61
43	The University of Texas at Arlington	61
45	University of California, Davis	58
46	University of Tennessee, Knoxville	57
47	Rensselaer Polytechnic Institute	56
48	University of Delaware	55
49	University of Notre Dame	53
49	Washington State University	53

187 Institutions included

3.1.14 Top 50 Institutions Awarding Bachelor's Degrees (excluding computer science both inside and outside Engineering)

#### Table 68: Top 50 Institutions Awarding Bachelor's Degrees (excluding computer science)

No	Institutions	Degrees Awarded
1	Texas A&M University	2,755
2	Arizona State University	$2,\!435$
3	Purdue University	2,252
4	Georgia Institute of Technology	1,964
5	University of Illinois at Urbana-Champaign	1,878
6	Virginia Polytechnic Institute and State University	1,772
7	The Pennsylvania State University	1,581
8	The University of Texas at Austin	1,413
9	North Carolina State University	1,349
10	Iowa State University	1,318
11	The Ohio State University	1,288
12	University of Central Florida	1,274
13	University of Florida	1,210
14	California Polytechnic State University, San Luis Obispo	1,160
15	University of California, Berkeley	1,157
16	University of Michigan	1,117
17	University of Maryland, College Park	1,013
18	University of Wisconsin-Madison	1,001
19	University of Colorado Boulder	982
20	Rutgers, The State University of New Jersey, School of Engineering	969
21	Colorado School of Mines	960
22	Clemson University	938
23	University of California, San Diego	935
24	University of Washington in Seattle	933
25	Oregon State University	920
26	University of California, Irvine	908
27	New Jersey Institute of Technology	894
28	Northeastern University	888
29	George Mason University	882

Table 68: Top 50 Institutions Awarding Bachelor's Degrees (excluding computer science) (continued)

No	Institutions	Degrees Awarded
30	Michigan State University	867
31	Florida International University	863
32	Missouri University of Science and Technology	848
33	University of Cincinnati	801
34	California State University, Long Beach	799
35	University of Minnesota - Twin Cities	785
36	Kennesaw State University	778
37	Michigan Technological University	775
38	Louisiana State University	770
39	Auburn University	752
39	University of South Florida	752
41	Texas Tech University	726
42	University at Buffalo, SUNY	724
43	Stony Brook University	715
44	San Diego State University	710
45	University of California, Los Angeles	709
46	University of California, Davis	689
47	San Jose State University	680
48	Worcester Polytechnic Institute	679
49	Drexel University	668
50	Oklahoma State University	664

366 Institutions included

#### 3.1.15 Top 50 Institutions Awarding Master's Degrees (excluding computer science both inside and outside Engineering)

Table 69: Top 50 Institutions Awarding Master's Degrees (excluding computer science)

No	Institutions	Degrees Awarded
1	Arizona State University	1,882
2	Northeastern University	1,833
3	Columbia University	1,744
4	Carnegie Mellon University	1,653
5	NYU Tandon School of Engineering	1,642
6	Georgia Institute of Technology	1,610
7	University of Southern California	1,607
8	University of Michigan	1,458
9	University of California, Berkeley	1,072
10	San Jose State University	980
11	University at Buffalo, SUNY	978
12	Cornell University	952
13	Texas A&M University	948
14	University of California, San Diego	883
15	North Carolina State University	878
16	University of Washington in Seattle	873
17	Massachusetts Institute of Technology	861
18	Stanford University	842
19	The Johns Hopkins University	828
$\frac{19}{20}$	Northwestern University	775
20	Duke University	755
$\frac{21}{22}$	University of Pennsylvania	753
$\frac{22}{23}$		
	University of Colorado Boulder	726
24	Stevens Institute of Technology	721
25	University of Florida	690 694
26	University of Illinois at Urbana-Champaign	684
27	University of California, Los Angeles	620
28	Purdue University	582
29	The University of Texas at Arlington	530
30	University of Maryland, College Park	521
31	George Mason University	507
32	The Pennsylvania State University	496
33	Virginia Polytechnic Institute and State University	482
34	The George Washington University	453
34	Worcester Polytechnic Institute	453
36	Washington University in St. Louis	452
37	University of Wisconsin-Madison	444
38	The University of Texas at Austin	443
39	Boston University	411
40	Colorado School of Mines	410
41	New Jersey Institute of Technology	399
42	The Ohio State University	371
43	University of Central Florida	352
44	Clemson University	329
45	Missouri University of Science and Technology	325
46	Florida International University	319
47	University of South Florida	317
48	Illinois Institute of Technology	316
49	University of Maryland, Baltimore County	313
50	University of Cincinnati	308

\* 278 Institutions included

# 3.1.16 Top 50 Institutions Awarding Doctoral Degrees (excluding computer science both inside and outside Engineering )

Table 70: Top 50 Institutions Awarding Doctoral Degrees (excluding computer science)

No	Institutions	Degrees Awarded
1	Georgia Institute of Technology	378
2	Massachusetts Institute of Technology	368
3	Purdue University	344
4	Texas A&M University	301
5	University of Michigan	279
6	University of Illinois at Urbana-Champaign	276
7	Stanford University	267
8	University of California, Berkeley	233
9	The University of Texas at Austin	221
10	Virginia Polytechnic Institute and State University	220
11	University of California, San Diego	196
12	The Pennsylvania State University	193
13	University of Washington in Seattle	182
14	North Carolina State University	180
15	The Ohio State University	169
16	University of California, Los Angeles	157
17	University of Maryland, College Park	153
18	Arizona State University	151
18	University of Florida	151

Table 70: Top 50 Institutions Awarding Doctoral Degrees (exclud-
ing computer science) (continued)

No	Institutions	Degrees Awarded
20	Carnegie Mellon University	146
21	Cornell University	144
22	Iowa State University	134
23	The Johns Hopkins University	133
23	University of Minnesota -Twin Cities	133
23	University of Wisconsin-Madison	133
26	Fu Foundation School of Engineering and Applied Science - Columbia University	132
27	Northwestern University	126
28	Colorado School of Mines	123
29	University of California, Davis	117
30	University of Virginia	116
31	University of Southern California	115
32	University of Colorado Boulder	108
33	University of California, Irvine	106
34	Michigan State University	104
35	Duke University	103
35	Northeastern University	103
35	William Marsh Rice University	103
38	Clemson University	102
38	University of Delaware	102
38	University of Tennessee, Knoxville	102
41	Boston University	99
42	University of Central Florida	95
43	University of Pittsburgh	89
44	The University of Texas at Dallas	88
45	University of Utah	87
46	Auburn University	86
47	The George Washington University	85
48	Princeton University	84
49	Rutgers, The State University of New Jersey, School of Engineering	79
50	Vanderbilt University	78

\* 186 Institutions included

# 3.1.17 Institutions with the Highest Percentage of Doctoral Degrees to Foreign Nationals

Table 71: Highest Percentage of Doctoral Degrees to Foreign Nationals (min 25 awarded)

1Lamar University100%1Prairie View A & M University100%1SUNY College of Environmental Science and Forestry100%4Illinois Institute of Technology97.4%5University of North Texas89.3%6Abilene Christian University85.7%7Tennessee Technological University85.7%6Texas A&M University - Kingsville85.7%9University of Missouri85%10University of North Carolina at Charlotte84.2%11University of Texas at Dallas82.1%13Oklahoma State University Carbondale81.8%13Southern Illinois University Carbondale81.8%14The State University of New York at Binghamton81.8%15University of Nevada, Reno81.6%16University of Texas at Arlington79.2%21University of Texas at Arlington79.2%22Stony Brook University78.8%23Woreester Polytechnic Institute76%24University of California, Riverside75.3%25University of Massachusetts-Boston75%26University of Missouri, Milwaukee73.3%31Fordla Laterniversity73.3%33Portland State University73.3%34Howard University73.3%35University of Chilornia, Rilwaukee73.3%36University of California, Milwaukee73.3%37Portland State University73.3%	No	Institutions	Percentage
1SUNY College of Environmental Science and Forestry100%4Illinois Institute of Technology97.4%5University of North Texas89.3%6Abilene Christian University85.7%6Texas A&M University - Kingsville85.7%9University of Missouri85%10University of North Carolina at Charlotte84.2%11University of Denver83.3%12The University of Texas at Dallas82.1%13Oklahoma State University81.8%13Southern Illinois University Carbondale81.8%14University of Nevada, Reno81.6%15NYU Tandon School of Engineering80.4%16University of Texas at Arlington79.2%21University at Buffalo, SUNY78.8%22Stony Brook University77.2%23Worcester Polytechnic Institute76%24University of California, Riverside75.3%25University of Massachusetts-Boston75%26University of Miscouri, Milwaukee73.5%27University of Wisconsin, Milwaukee73.5%28Kansas State University73.3%39Portland State University73.3%31Femple University73.3%32Howard University73.3%33Howard University73.3%34Howard University72.7%35University of Oklahoma, Gallogly College of Engineering72.%36Marq	1	Lamar University	100%
4Illinois Institute of Technology97.4%5University of North Texas89.3%6Abilene Christian University85.7%6Tennessee Technological University85.7%6Texas A&M University - Kingsville85.7%9University of Missouri85%10University of North Carolina at Charlotte84.2%11University of Denver83.3%12The University of Texas at Dallas82.1%13Oklahoma State University81.8%13The State University Carbondale81.8%13The State University of New York at Binghamton81.8%14University of Nevada, Reno81.6%17NYU Tandon School of Engineering80.4%18Tennessee State University80%20The University of Texas at Arlington79.2%21University at Buffalo, SUNY78.8%22Stony Brook University75%23Worcester Polytechnic Institute76%24University of California, Riverside75.3%25University of Massachusetts-Boston75%25University of Missouri, Milwaukee73.5%31Kansas State University73.3%33Howard University73.3%34Howard University73.3%35University of Oklahoma, Gallogly College of Engineering72.2%36Marquette University72.8%	1		100%
5University of North Texas89.3%6Abilene Christian University85.7%6Tennessee Technological University85.7%6Texas A&M University - Kingsville85.7%9University of Missouri85%10University of North Carolina at Charlotte84.2%11University of Denver83.3%12The University of Texas at Dallas82.1%13Oklahoma State University81.8%13Southern Illinois University Carbondale81.8%14University of Newada, Reno81.6%15University of Nevada, Reno81.6%16University of Nevada, Reno80.4%17NYU Tandon School of Engineering80.4%18Tennessee State University80%20The University of Texas at Arlington79.2%21University at Buffalo, SUNY78.8%22Stony Brook University77.2%23Worcester Polytechnic Institute76%24University of California, Riverside75.3%25University of Massachusetts-Boston75%26University of Missoath, Milwaukee73.3%31Kansas State University73.3%33Portland State University73.3%34Howard University73.3%35University of Wisconsin, Milwaukee73.3%36Marquette University72.7%	1	SUNY College of Environmental Science and Forestry	100%
6Abilene Christian University85.7%6Tennessee Technological University85.7%6Texas A&M University - Kingsville85.7%9University of Missouri85%10University of North Carolina at Charlotte84.2%11University of Denver83.3%12The University of Texas at Dallas82.1%13Oklahoma State University81.8%13Southern Illinois University Carbondale81.8%13The State University of New York at Binghamton81.8%14University of Nevada, Reno81.6%15University of Nevada, Reno80.4%16University of Nevada, Reno80%17NYU Tandon School of Engineering80%18Tenessee State University of America80%20The Catholic University of America80%21University at Buffalo, SUNY78.8%22Stony Brook University77.2%23Worcester Polytechnic Institute76%24University of California, Riverside75.3%25University of Massachusetts-Boston75%26University of Missoni, Milwaukee73.5%31Kansas State University73.3%33Portland State University73.3%34Howard University73.3%35Itemple University73.3%36Marquette University72.7%36Marquette University72.7%	4	Illinois Institute of Technology	97.4%
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36   Marquette University   72%			
1 0			
	30 37	Florida International University	72.0 71.9%

Table 71: Highest Percentage of Doctoral Degrees to Foreign Nationals (min 25 awarded) (continued)

No	Institutions	Percentage
38	Northeastern University	71.8%
39	Louisiana State University	71.7%
40	New Mexico Institute of Mining and Technology	71.4%
40	University of Missouri - Kansas City	71.4%
42	University of Cincinnati	71%
43	University of Idaho	70.4%
44	Arizona State University	70.1%
45	Auburn University	70%
45	Texas State University	70%
45	University of Hawaii at Manoa	70%
48	University of South Florida	69.6%
49	Wright State University	69.2%
50	University of Illinois at Urbana-Champaign	69.1%

<sup>6</sup> 187 Institutions included

#### 3.1.18 Institutions with the Lowest Percentage of Doctoral Degrees to Foreign Nationals

Table 72: Institutions with the Lowest Percentage of Doctoral Degrees to Foreign Nationals (min 25 awarded)

No	Institutions	Percentage
1	Air Force Institute of Technology	0%
1	Baylor University	0%
1	Brigham Young University	0%
1	California State University, Long Beach	0%
1	Capitol Technology University	0%
1	Florida Agricultural and Mechanical University	0%
7	University of Louisiana at Lafayette	6.7%
8	The George Washington University	20%
9	Ohio University	23.1%
10	Northern Arizona University	25%
10	University of Bridgeport	25%
12	Tufts University	31.4%
13	Alfred University, NY State College of Ceramics	33.3%
13	Boise State University	33.3%
13	Louisiana Tech University	33.3%
13	University of Colorado Boulder	33.3%
17	University of Kansas	35%
18	Northwestern University	35.4%
19	University of California, Berkeley	36.9%
20	New Mexico State University	38.1%
21	University of California-Santa Cruz	38.5%
22	Wayne State University	39.6%
23	Colorado School of Mines	39.8%
24	Jackson State University	40%
24	Vanderbilt University	40%

\* 187 Institutions included

#### 3.1.19 Top 10 Institutions by Total Doctoral Degrees awarded in Engineering (General)

Table 73: Top 10 Institutions by Total Doctoral Degrees awarded in Engineering (General)

No	Institutions	Degrees Awarded
1	Dartmouth College	21
2	Villanova University	16
3	The University of Memphis	13
4	Lamar University	9
5	Arizona State University	7
5	The Johns Hopkins University	7
7	Texas A&M University	6
7	University at Buffalo, SUNY	6
7	Wright State University	6
10	Stevens Institute of Technology	5

\* 17 Institutions included

#### ENGINEERING DOCTORAL ENROLLMENT 3.2

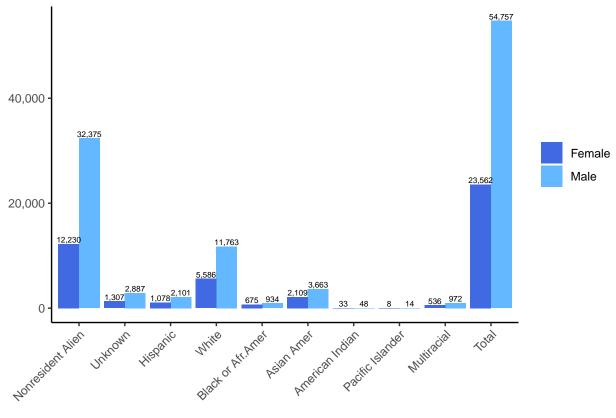
# 3.2.1 Doctoral Enrollment by Race, Ethnicity, and Gender

Ethnicity	Enrollments
Nonresident Alien Male	32,375
Nonresident Alien Female	12,230
Unknown Male	2,887
Unknown Female	1,307
Hispanic Male	2,101
Hispanic Female	1,078
White Male	11,763
White Female	5,586
Black or Afr. American Male	934
Black or Afr. American Female	675
Asian American Male	3,663
Asian American Female	2,109
American Indian Male	48
American Indian Female	33
Native Hawaiian/Other Pacific Islander Male	14
Native Hawaiian/Other Pacific Islander Female	8
Multiracial Male	972
Multiracial Female	536
Total Male	54,757
Total Female	23,562

Table 74: Doctoral Enrollment by Race, Ethnicity, and Gender  $79,010^\ast$ 

Includes 69 male and 32 female enrolled students from Institutions in Puerto Rico.





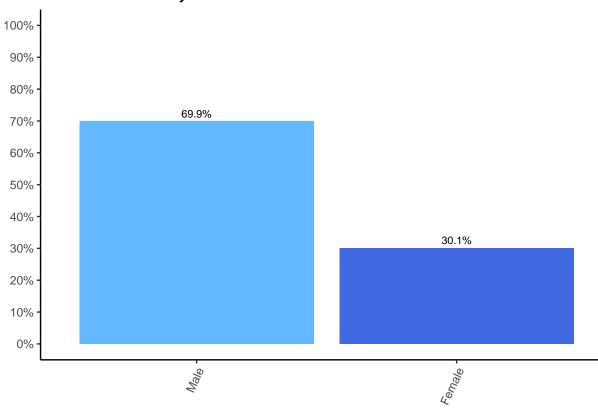
Discipline Name	Full Time	Part Time
Aerospace	2,797	209
Architectural	121	2
Biological and Agricultural	688	64
Biomedical	8,789	361
Chemical	6,758	231
Civil	4,165	353
Civil/Environmental	2,128	215
Computer	1,744	161
Computer Sci. (inside Eng.)	$11,\!453$	1,009
Computer Sci. (outside Engr.)	$4,\!475$	381
Construction Engineering Technology	8	15
Electrical	$5,\!476$	507
Electrical/Computer	$8,\!630$	672
Engineering (General)	780	294
Engineering Management	210	152
Engr. Science and Engr. Physics	568	19
Envr. Eng	885	34
Industrial/Manufacturing/Systems	$2,\!679$	628
Mechanical	$10,\!334$	714
Metallurgical and Matrls.	3,776	163
Mining	84	19
Nuclear	915	74
Other	$5,\!629$	697
Petroleum	393	43

Table 75: Doctoral Enrollment by Engineering Discipline:(Full time and Part time)

#### 3.2.3 Doctoral Enrollment by Gender



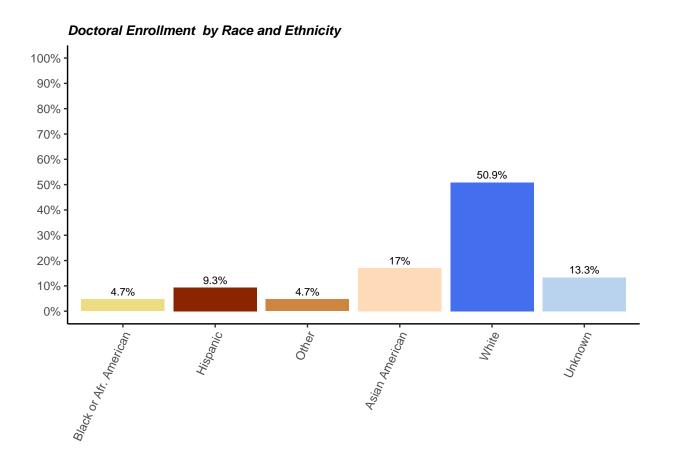
Gender	Percentage
Female	29.4%
Male	70.6%



## Doctoral Enrollment by Gender

Table 77: Doctoral Enrollment by Race and Ethnicity\*

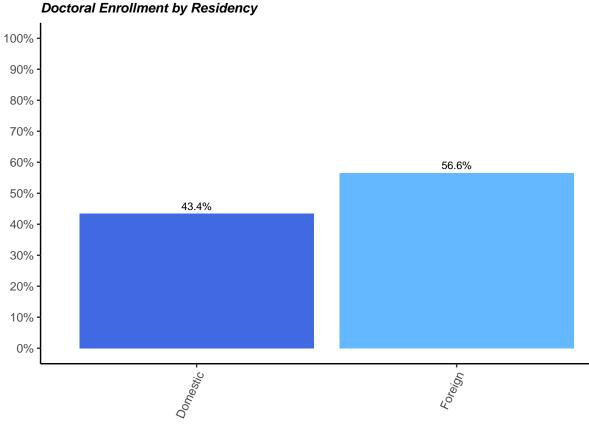
Ethnicity	Percentage
Black or Afr. American	4.9%
Hispanic	9.3%
Other	4.3%
Asian American	14.8%
White	57.6%
Unknown	9.1%



3.2.5 Doctoral Enrollment by Residency

Table 78: Doctoral Enrollment by Residency

Nationality	Percentage				
Foreign	58.3%				
Domestic	41.7%				



52

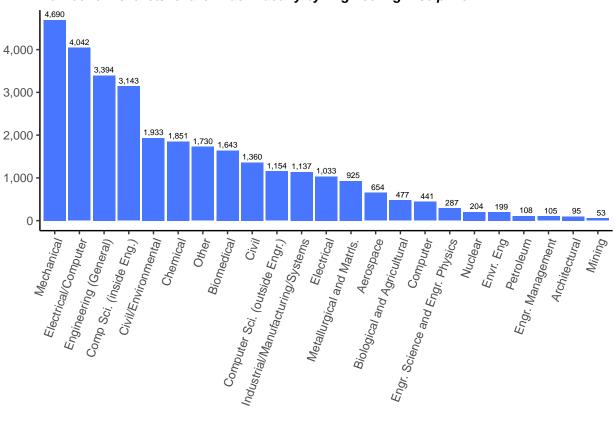
# 4 ENGINEERING FACULTY

# 4.1 Number of Tenured/Tenure-Track Faculty by Engineering Discipline

Table 79: Number of Tenured/Tenure-Track Faculty by Engineering Discipline: 29,504

Discipline Name	Number of Faculty
Mechanical	4,690
Electrical/Computer	4,042
Engineering (General)	3,394
Comp Sci. (inside Eng.)	3,143
Civil/Environmental	1,933
Chemical	1,851
Other	1,730
Biomedical	1,643
Civil	1,360
Computer Sci. (outside Engr.)	$1,\!154$
Industrial/Manufacturing/Systems	1,137
Electrical	1,033
Metallurgical and Matrls.	925
Aerospace	654
Biological and Agricultural	477
Computer	441
Engr. Science and Engr. Physics	287
Nuclear	204
Envr. Eng	199
Petroleum	108
Engr. Management	105
Architectural	95
Mining	53

<sup>\*</sup> Total does not include computer science (outside engineering).



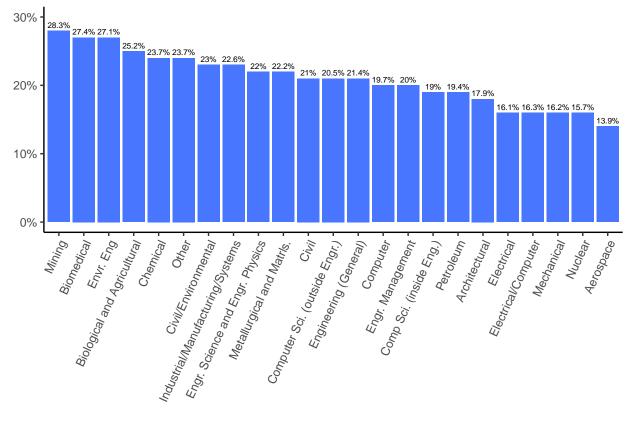


#### 4.2 Percentage of Female Tenured/Tenure-Track Faculty by Discipline

Table 80: Percentage of Female Tenured/Tenure-Track Faculty by Discipline: 20.1 % of Total

Discipline Name	Percent Women
Mining	28.3%
Biomedical	27.4%
Envr. Eng	27.1%
Biological and Agricultural	25.2%
Chemical	23.7%
Other	23.7%
Civil/Environmental	23%
Industrial/Manufacturing/Systems	22.6%
Metallurgical and Matrls.	22.2%
Engr. Science and Engr. Physics	22%
Engineering (General)	21.4%
Civil	21%
Computer Sci. (outside Engr.)	20.5%
Engr. Management	20%
Computer	19.7%
Petroleum	19.4%
Comp Sci. (inside Eng.)	19%
Architectural	17.9%
Electrical/Computer	16.3%
Mechanical	16.2%
Electrical	16.1%
Nuclear	15.7%
Aerospace	13.9%

Percentage of Female Tenured/Tenure-Track Faculty by Discipline



#### 4.3 Top 50 Institutions by Number of Tenured/Tenure-Track Faculty

Table 81: Top 50 Institutions by Number of Tenured/Tenure-Track Faculty

No	Institutions	Number of Faculty
1	Georgia Institute of Technology	518
2	University of Illinois at Urbana-Champaign	463
3	University of Michigan	457
4	Texas A&M University	449
5	The Pennsylvania State University	426
6	Purdue University	399
6	Virginia Polytechnic Institute and State University	399
8	Massachusetts Institute of Technology	396
9	North Carolina State University	389
10	Arizona State University	361
11	The University of Texas at Austin	341
12	Carnegie Mellon University	337
13	University of Florida	327
14	The University of Texas at Arlington	323
15	Florida Atlantic University	316
15	University of California, Santa Barbara	316

Table 81: Top 50 Institutions by Number of Tenured/Tenure-Track Faculty (continued)

No	Institutions	Number of Faculty
17	University of Wisconsin-Madison	313
18	The Ohio State University	299
18	University of Washington in Seattle	299
20	The Johns Hopkins University	294
21	Stanford University	287
22	University of Maryland, College Park	283
23	Cornell University	280
24	University of Minnesota -Twin Cities	268
25	Northeastern University	266
26	Iowa State University	262
27	University of Delaware	258
28	University of California, San Diego	248
29	Clemson University	244
30	Michigan State University	238
31	University of California, Berkeley	237
32	University of California, Irvine	232
33	Columbia University	214
34	University of Southern California	213
35	Oregon State University	206
36	University of Utah	204
37	University at Buffalo, SUNY	203
38	University of California, Davis	202
39	University of Massachusetts Amherst	201
40	Colorado School of Mines	200
41	Northwestern University	199
42	Rose-Hulman Institute of Technology	197
43	University of California, Los Angeles	192
44	University of Tennessee, Knoxville	191
45	University of Nebraska, Lincoln	187
46	Princeton University	180
47	Stony Brook University	178
47	University of Arizona	178
49	Auburn University	175
50	The University of Texas at Dallas	171

\* 298 Institutions included

# 4.4 Top 20 Institutions by Number of Underrepresented Minorities Tenured/Tenure-Track Faculty

Table 82: Top 20 Institutions by Number of Underrepresented Minorities Tenured/Tenure-Track Faculty

No	Institutions	Number of Faculty
1	University of Puerto Rico, Mayaguez Campus	130
2	Florida Atlantic University	45
2	Texas A&M University	45
4	University of Florida	41
5	Massachusetts Institute of Technology	38
5	Purdue University	38
7	The University of Tennessee-Chattanooga	37
7	University of Tennessee-Chattanooga	37
9	Virginia Polytechnic Institute and State University	34
10	The University of Texas at El Paso	33
11	The University of Texas at San Antonio	32
12	Georgia Institute of Technology	31
13	Howard University	30
14	Rochester Institute of Technology	28
14	The Pennsylvania State University	28
14	University of Michigan	28
17	Stanford University	27
18	The Johns Hopkins University	26
18	The Ohio State University	26
20	The University of Texas at Austin	25

\* 298 Institutions included

# 4.5 Top 20 Institutions by Percentage of Underrepresented Minorities Tenured/Tenure-Track Faculty

Table 83: Top 20 Institutions by Percentage of Underrepresented Minorities Tenured/Tenure-Track Faculty

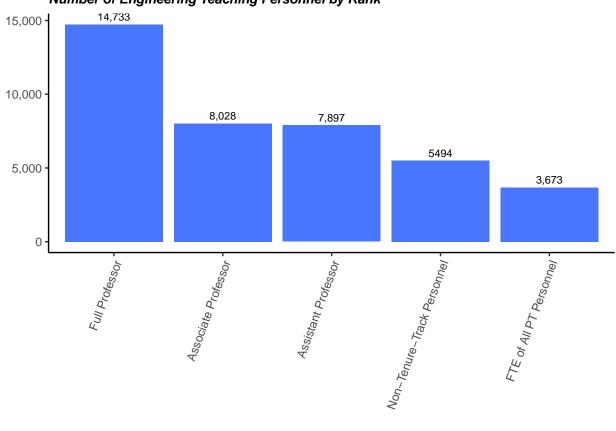
No	Institutions	Percent Underrepresented Minorities
1	University of Puerto Rico, Mayaguez Campus	90.9%
2	Virginia State University	60%
3	Howard University	54.5%
4	Morgan State University	50%
5	The University of Texas at El Paso	34.4%
6	Jackson State University	31.2%
7	Central State University	30.8%
8	Rochester Institute of Technology	28%
9	The University of Tennessee-Chattanooga	26.1%
9	University of Tennessee-Chattanooga	26.1%
11	Tuskegee University	25.8%
12	Texas State University	22.2%
13	The University of Texas at San Antonio	20.6%
14	Loyola University Chicago	20%
14	Winona State University	20%
16	The University of Texas Rio Grande Valley	19%
17	James Madison University	18.8%
18	North Carolina A&T State University	18.1%
19	Liberty University	17.6%
20	John Brown University	16.7%
* 00	9 Institutions included	1

\* 298 Institutions included

## 4.6 Number of Engineering Teaching Personnel by Rank

Table 84: Number of Engineering Teaching Personnel by Rank 39,825

Rank	Number of Faculty
Full Professor	14,733
Associate Professor	8,028
Assistant Professor	7,897
Non-Tenure-Track Personnel	5494
FTE of All PT Personnel	3,673



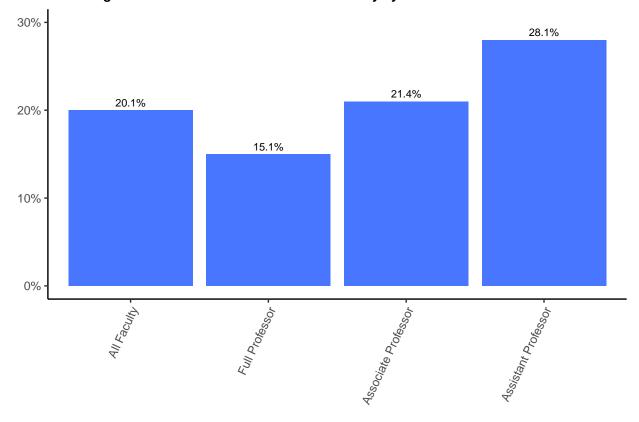
Number of Engineering Teaching Personnel by Rank

# 4.7 Percentage of Female Tenured/Tenure-Track Faculty by Rank

Table 85: Percentage of Female Tenured/Tenure-Track Faculty by Rank

Rank	Percent
All Faculty	20.1%
Full Professor	15.1%
Associate Professor	21.4%
Assistant Professor	28.1%

# Percentage of Female Tenured/Tenure-Track Faculty by Rank



# $4.8 \quad \text{Top 50 Institutions with Highest Percentage of Female Tenured/Tenure Track Faculty}$

Table 86: Top 50 Institutions with Highest Percentage of Female Tenured Tenure Track Faculty

No	Institutions	Percent Women				
1	Sweet Briar College	66.7%				
2	Humboldt State University	62.5%				
3	Cameron University	60%				
3	Campbell University	60%				
3	Saint Ambrose University	60%				
6	Smith College	55.6%				
7	Swarthmore College	50%				
8	Olin College of Engineering	48.8%				
9	University of San Diego	45.2%				
10	Seattle University	41.4%				
11	Loyola University Chicago	40%				
12	University of Bridgeport	38.9%				
13	University of Massachusetts Lowell	36.1%				
13	University of Portland	35%				
	*	34.4%				
15	Loyola Marymount University	34.1%				
16	Lafayette College					
17	Mercer University					
17	Middle Tennessee State University	33.3%				
17	Union College					
17	University of Saint Thomas	33.3%				
21	New York Institute of Technology	31.4%				
22	The University of Alabama in Huntsville	31.2%				
23	California Baptist University	31%				
24	San Jose State University	30.5%				
25	Valparaiso University	29.6%				
26	Harvey Mudd College	29.4%				
26	Roger Williams University	29.4%				
28	University of Florida	29.4%				
29	University of Colorado Boulder	29.2%				
30	University of the District of Columbia	29%				
31	Texas Christian University	28.6%				
31	The Johns Hopkins University	28.6%				
31	University of Washington-Tacoma	28.6%				
34	University of Wisconsin, Platteville	28.3%				
35	Ohio Northern University	28.3%				
36	University of Washington in Seattle	28.1%				
37	California State University, Long Beach	28%				
38	University of New Hampshire	27.8%				
38	University of New Haven	27.8%				
38	University of North Carolina at Chapel Hill	27.8%				
41	Rowan University	27.6%				
42	Colorado School of Mines	27.5%				
43	Grand Valley State University	27.3%				
43	Howard University	27.3%				
45	Gannon University	26.9%				
45	Trine University	26.9%				
47	Oregon State University	26.7%				
48	University of Puerto Rico, Mayaguez Campus	26.6%				
49	Rose-Hulman Institute of Technology	26.4%				
50	Carnegie Mellon University	26.1%				
	8 Institutions included					

\* 298 Institutions included

# 4.9 Top 20 Institutions with Highest Number of Female Tenured/Tenure-Track Faculty

Table 87: Top 20 Institutions with Highest Number of Female Tenured/Tenure-Track Faculty

No	Institutions	Number of Faculty
1	University of Michigan	113
2	Georgia Institute of Technology	112
3	University of Illinois at Urbana-Champaign	98
4	University of Florida	96
5	The Pennsylvania State University	93
6	Massachusetts Institute of Technology	89
7	Carnegie Mellon University	88
8	The Johns Hopkins University	84
8	University of Washington in Seattle	84
10	Arizona State University	83
11	Virginia Polytechnic Institute and State University	82
12	North Carolina State University	77
13	University of Wisconsin-Madison	76
14	Purdue University	75
15	Stanford University	74
16	Texas A&M University	72
17	The University of Texas at Austin	71
18	Cornell University	70
19	The Ohio State University	69
20	Northeastern University	68
* 29	8 Institutions included	

<sup>\*</sup> 298 Institutions included

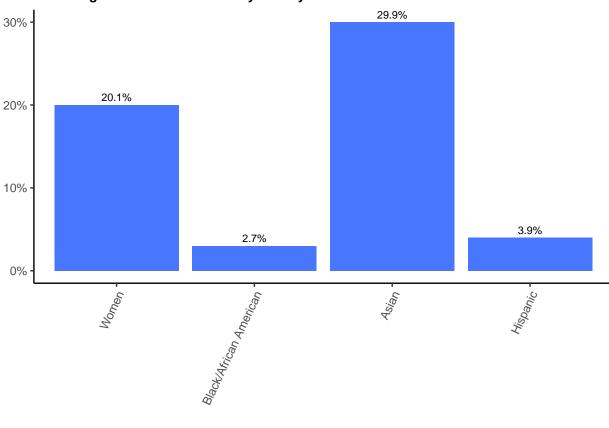
#### 4.10 Percentage of Women and Minority Faculty Members

Table 88: Percentage of Women and Minority Faculty Members

Ethnicity	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Women	13.2%	13.8%	14.0%	14.5%	15.2%	15.7%	16.3%	17.0%	17.6%	18.1%	18.6%
Black or Afr. American	2.5%	2.5%	2.7%	2.6%	2.5%	2.5%	2.3%	3.1%	2.4%	2.5%	2.5%
Asian	23.9%	24.1%	24.6%	25.2%	25.6%	26.9%	27.6%	26.0%	28.3%	28.7%	28.9%
Hispanic	3.6%	3.7%	3.9%	3.6%	3.9%	3.9%	3.7%	5.1%	3.8%	3.7%	3.9%

\* Includes faculty data from University of Puerto Rico, Mayaguez.





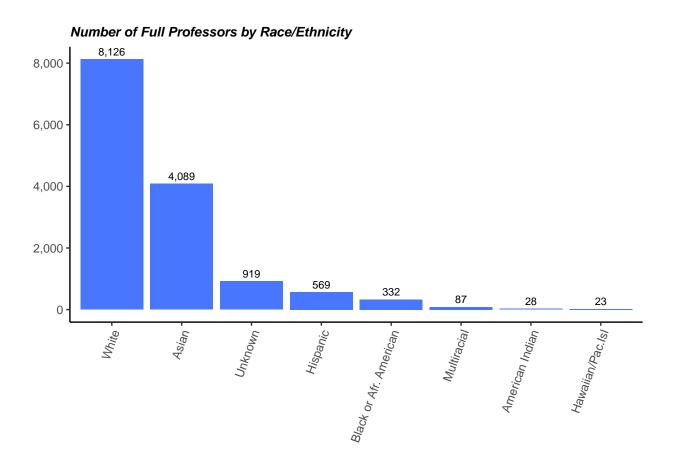
# 4.11 Number of Full Professors by Race/Ethnicity

Table 89: Number of Full Professors by Race/Ethnicity: 14,173

Ethnicity	Number of Faculty
White	8,126
Asian	4,089
Unknown	919
Hispanic	569
Black or Afr. American	332
Multiracial	87
American Indian	28
Hawaiian/Pac.Isl	23

<sup>\*</sup> Includes 116 Faculty from Institutions in Puerto Rico.

\* Computer Science(Outside Engineering) has been removed



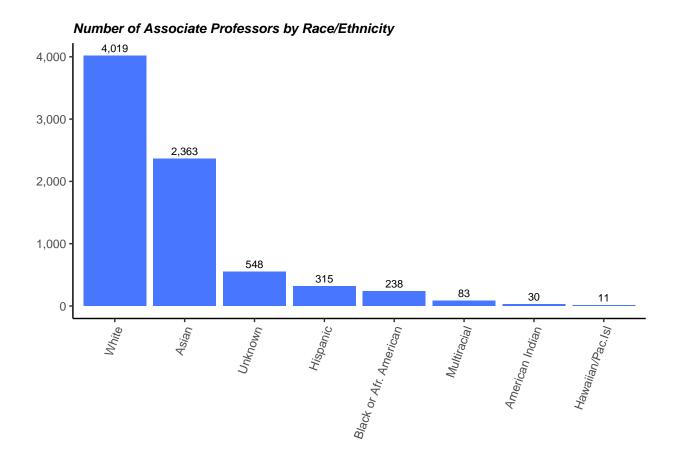
### 4.12 Number of Associate Professors by Race/Ethnicity

Table 90: Number of Associate Professors by Race/Ethnicity: 7,607

Ethnicity	Number of Faculty
White	4,019
Asian	2,363
Unknown	548
Hispanic	315
Black or Afr. American	238
Multiracial	83
American Indian	30
Hawaiian/Pac.Isl	11

\* Includes 7 Faculty from Institutions in Puerto Rico.

 $^{\ast}$  Computer Science (Outside Engineering) has been removed



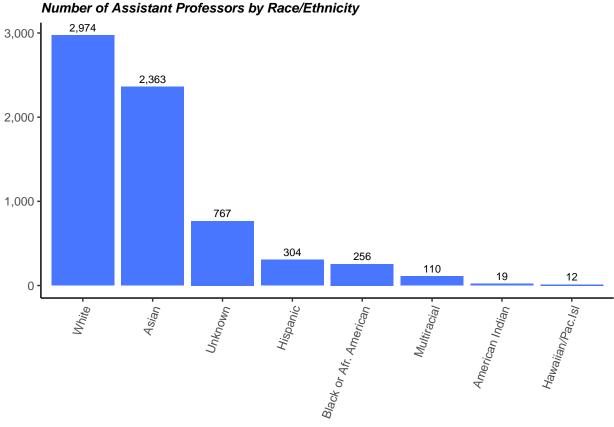
#### Number of Assistant Professors by Race/Ethnicity 4.13

Table 91: Number of Assistant Professors by Race/Ethnicity: 6,805

Ethnicity	Number of Faculty
White	2,974
Asian	2,363
Unknown	767
Hispanic	304
Black or Afr. American	256
Multiracial	110
American Indian	19
Hawaiian/Pac.Isl	12

\* Includes 20 Faculty from Institutions in Puerto Rico.

 $^{\ast}$  Computer Science (Outside Engineering) has been removed



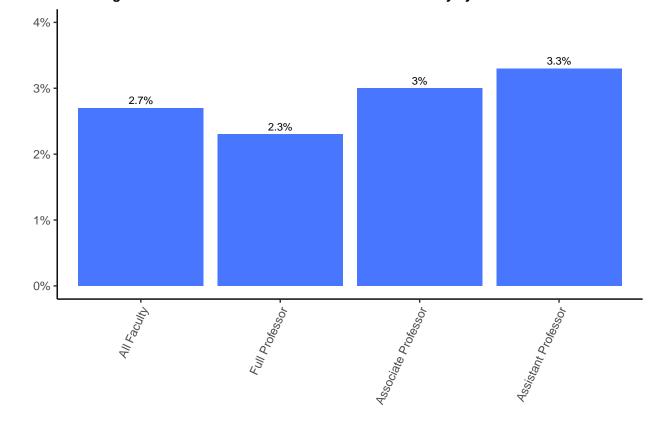


### 4.14 Percentage of Black/African American Tenured/Tenure-Track Faculty by Rank

Rank	Percent
All Faculty	2.7%
Full Professor	2.3%
Associate Professor	3%
Assistant Professor	3.3%

Table 92: Percentage of Black/African American Tenured/Tenure-Track Faculty by Rank

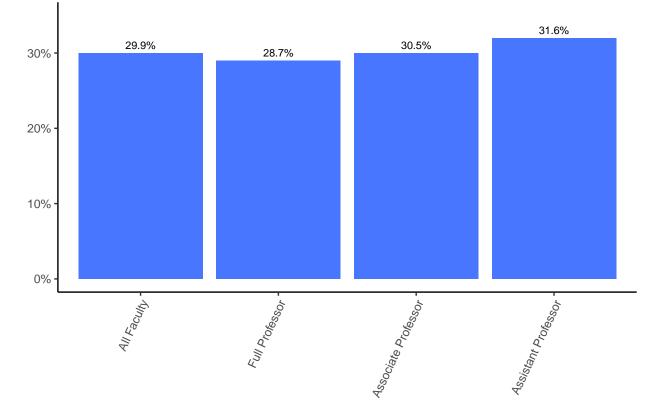
# Percentage of African American Tenured/Tenure–Track Faculty by Rank



### 4.15 Percentage of Asian Tenured/Tenure-Track Faculty by Rank

Table 93: Percentage of Asian Tenured/Tenure-Track Faculty by Rank

Rank	Percent
All Faculty	29.9%
Full Professor	28.7%
Associate Professor	30.5%
Assistant Professor	31.6%



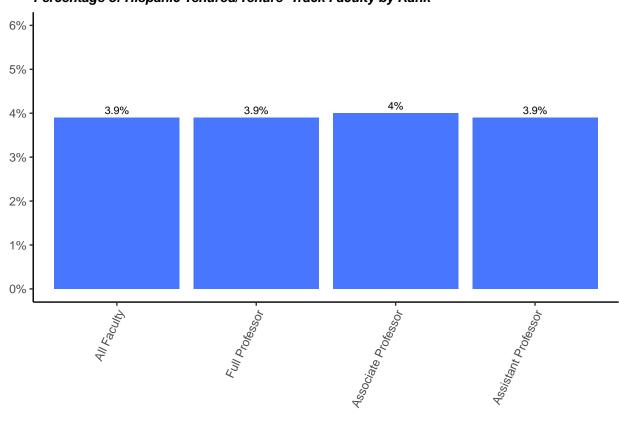
Percentage of Asian Tenured/Tenure–Track Faculty by Rank

62

### 4.16 Percentage of Hispanic Tenured/Tenure-Track Faculty by Rank

Table 94: Percentage of Hispanic Tenured/Tenure-Track Faculty by Rank

Rank	Percent
All Faculty	3.9%
Full Professor	3.9%
Associate Professor	4%
Assistant Professor	3.9%



#### Percentage of Hispanic Tenured/Tenure–Track Faculty by Rank

### 4.17 African American Tenured/Tenure Track Faculty by Institutions

Table 95: African American Tenured/Tenure Track Faculty by Institutions

No	Institutions	Number of Faculty
1	The University of Tennessee-Chattanooga	29
1	University of Tennessee-Chattanooga	29
3	Howard University	27
4	University of Florida	21
5	FAMU-FSU College of Engineering	18
5	Georgia Institute of Technology	18
5	Morgan State University	18
8	University of Michigan	16
8	Virginia Polytechnic Institute and State University	16
10	Massachusetts Institute of Technology	15
11	North Carolina A&T State University	14
11	The Johns Hopkins University	14
13	The Ohio State University	12
14	Carnegie Mellon University	11
14	Texas A&M University	11
14	University of Delaware	11
17	Florida Atlantic University	10
17	Stanford University	10
17	University of California, Irvine	10
20	Cornell University	9

\* 298 Institutions included

### 4.18 Asian Tenured/Tenure Track Faculty by Institutions

Table 96: Asian Tenured/Tenure Track Faculty by Institutions

No	Institutions	Number of Faculty
1	Georgia Institute of Technology	181
2	The University of Texas at Arlington	175
3	Texas A&M University	156
4	Florida Atlantic University	147
5	Purdue University	145
5	University of Illinois at Urbana-Champaign	145
7	Arizona State University	119
8	North Carolina State University	117
9	Iowa State University	116
9	University of Michigan	116
11	Virginia Polytechnic Institute and State University	108
12	The University of Texas at Austin	106
13	Carnegie Mellon University	103
14	University at Buffalo, SUNY	102
15	Michigan State University	101
16	The Ohio State University	100
17	University of Florida	96
18	University of California, San Diego	94
18	University of Wisconsin-Madison	94
20	The Pennsylvania State University	91

\* 298 Institutions included

### 4.19 Hispanic Tenured/Tenure Track Faculty by Institutions

Table 97: Hispanic Tenured/Tenure Track Faculty by Institutions

No	Institutions	Number of Faculty
1	University of Puerto Rico, Mayaguez Campus	124
2	Florida Atlantic University	35
3	Texas A&M University	33
3	The University of Texas at El Paso	33
5	Purdue University	29
6	The University of Texas at San Antonio	28
7	Massachusetts Institute of Technology	23
8	University of Florida	20
9	The Pennsylvania State University	19
9	University of Illinois at Urbana-Champaign	19
11	University of California, San Diego	17
12	Stanford University	16
12	The University of Texas at Austin	16
14	Virginia Polytechnic Institute and State University	15
15	The Ohio State University	14
15	The University of New Mexico	14
17	Arizona State University	13
17	Georgia Institute of Technology	13
17	University of Colorado Boulder	13
20	The Johns Hopkins University	12

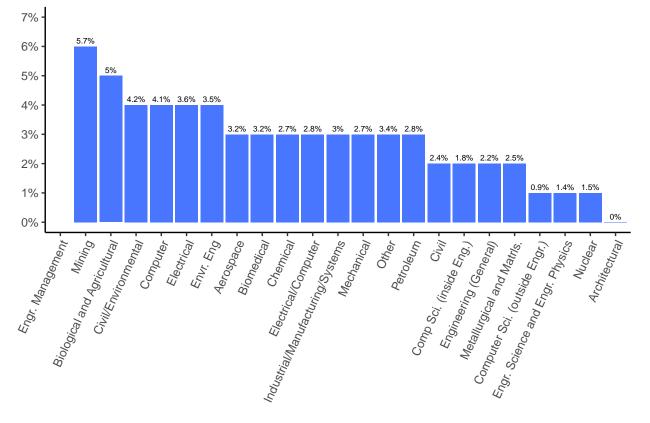
\* 298 Institutions included

### 4.20 Percentage of African American Tenured/Tenure-Track Faculty by Discipline

Discipline Name	Percentage
Engr. Management	7.6%
Mining	5.7%
Biological and Agricultural	5%
Civil/Environmental	4.2%
Computer	4.1%
Electrical	3.6%
Envr. Eng	3.5%
Other	3.4%
Aerospace	3.2%
Biomedical	3.2%
Industrial/Manufacturing/Systems	3%
Electrical/Computer	2.8%
Petroleum	2.8%
Chemical	2.7%
Mechanical	2.7%
Metallurgical and Matrls.	2.5%
Civil	2.4%
Engineering (General)	2.2%
Comp Sci. (inside Eng.)	1.8%
Nuclear	1.5%
Engr. Science and Engr. Physics	1.4%
Computer Sci. (outside Engr.)	0.9%
Architectural	0%

Table 98: Percentage of African American Tenured/Tenure-Track Faculty by Discipline: 2.7 % of Total

Percentage of African American Tenured/Tenure-Track Faculty by Discipline

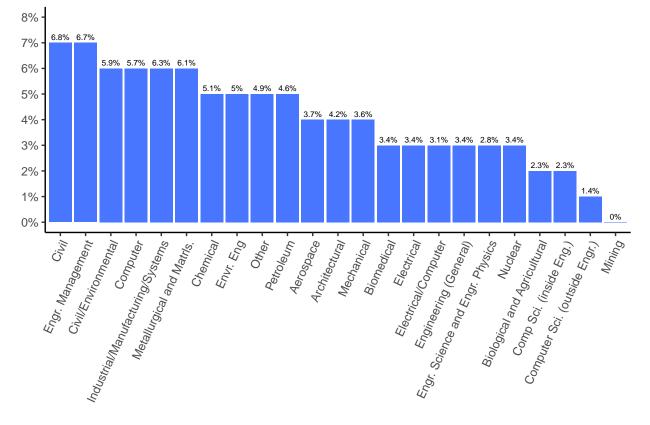


### 4.21 Percentage of Hispanic Tenured/Tenure-Track Faculty by Discipline

Table 99: Percentage of Hispanic Tenured/Tenure-Track Faculty by Discipline: 3.9 % of Total

Discipline Name	Percentage
Discipline Name	Tereentage
Civil	6.8%
Engr. Management	6.7%
Industrial/Manufacturing/Systems	6.3%
Metallurgical and Matrls.	6.1%
Civil/Environmental	5.9%
Computer	5.7%
Chemical	5.1%
Envr. Eng	5%
Other	4.9%
Petroleum	4.6%
Architectural	4.2%
Aerospace	3.7%
Mechanical	3.6%
Biomedical	3.4%
Electrical	3.4%
Engineering (General)	3.4%
Nuclear	3.4%
Electrical/Computer	3.1%
Engr. Science and Engr. Physics	2.8%
Biological and Agricultural	2.3%
Comp Sci. (inside Eng.)	2.3%
Computer Sci. (outside Engr.)	1.4%
Mining	0%

Percentage of Hispanic Tenured/Tenure-Track Faculty by Discipline

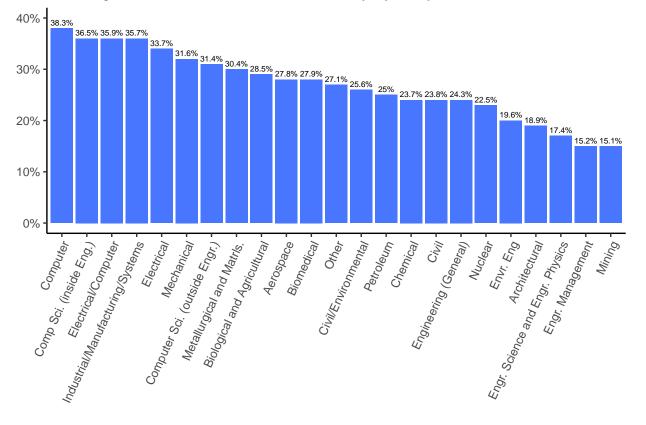


#### 4.22 Percentage of Asian Tenured/Tenure-Track Faculty by Discipline

Table 100: Percentage of Asian Tenured/Tenure-Track Faculty by Discipline: 29.9 % of Total

Discipline Name	Percentage
Discipline Ivane	0
Computer	38.3%
Comp Sci. (inside Eng.)	36.5%
Electrical/Computer	35.9%
Industrial/Manufacturing/Systems	35.7%
Electrical	33.7%
Mechanical	31.6%
Computer Sci. (outside Engr.)	31.4%
Metallurgical and Matrls.	30.4%
Biological and Agricultural	28.5%
Biomedical	27.9%
Aerospace	27.8%
Other	27.1%
Civil/Environmental	25.6%
Petroleum	25%
Engineering (General)	24.3%
Civil	23.8%
Chemical	23.7%
Nuclear	22.5%
Envr. Eng	19.6%
Architectural	18.9%
Engr. Science and Engr. Physics	17.4%
Engr. Management	15.2%
Mining	15.1%

Percentage of Asian Tenured/Tenure-Track Faculty by Discipline



## 5 ENGINEERING RESEARCH EXPENDITURES

### 5.1 Top 50 Research Expenditure by Institutions

Table 101: Top 50 Research Expenditure by Institutions

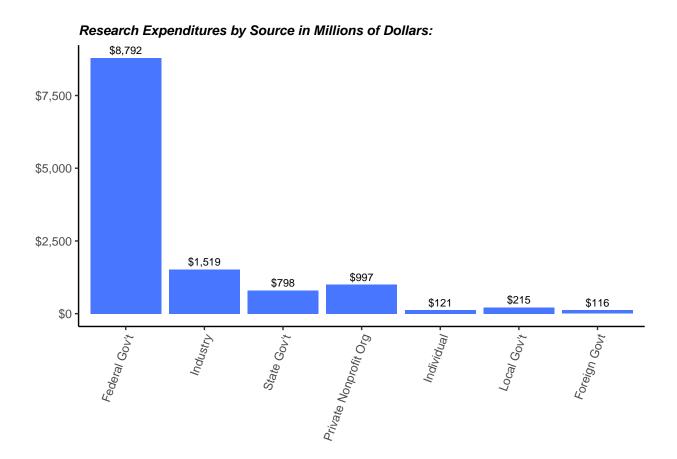
No	Institution	Expenditure(IN MILLIONS)
1	Texas A&M University	\$444.7
2	Massachusetts Institute of Technology	\$432.9
3	The University of Texas at Austin	\$429.6
4	Georgia Institute of Technology	\$396.6
5	Purdue University	\$383.7
6	Carnegie Mellon University	\$319.7
7	University of Illinois at Urbana-Champaign	\$299.5
8	University of Michigan	\$297.8
9	Stanford University	\$261.4
10	The Johns Hopkins University	\$256.2
11	University of California, San Diego	\$256
12	University of California, Berkeley	\$251.3
13	University of Maryland, College Park	\$242.2
14	North Carolina State University	\$228.4
15	University of Dayton	\$222.8
16	University of Washington in Seattle	\$203.7
17	The Ohio State University	\$187
18	Northwestern University	\$181
19	University of Colorado Boulder	\$179.8
$\frac{10}{20}$	Cornell University	\$176.7
20	University of Southern California	\$176.7
$\frac{21}{22}$	Duke University	\$167.4
23	University of Wisconsin-Madison	\$163.9
$\frac{23}{24}$	Virginia Polytechnic Institute and State University	\$158
$\frac{24}{25}$	Arizona State University	\$146.8
$\frac{25}{26}$	Boston University	\$140.8
$\frac{20}{27}$	*	\$138.5
27	University of Rochester The Pennsylvania State University	\$137.8
$\frac{28}{29}$	University of Pittsburgh	\$129.7
$\frac{29}{30}$	University of Delaware	\$126.5
31	University of Minnesota -Twin Cities	\$122.6
$31 \\ 32$	University of California, Los Angeles	\$118.1
33	University of California, Davis	\$117.9
	University of California, Irvine	
34	· · · · · · · · · · · · · · · · · · ·	\$115.8
35	Iowa State University	\$112.3
$\frac{36}{27}$	University of Florida	\$111.4
$\frac{37}{38}$	University of Utah	\$106.7 \$105.1
	University of Pennsylvania	
39 40	Colorado State University	\$103.5
40	University of California, Santa Barbara	\$103.4 ¢07.0
41	Colorado School of Mines	\$97.9 \$07.1
42	Northeastern University	\$97.1 ¢04.0
43	University of Virginia	\$94.9 \$04.0
44	William Marsh Rice University	\$94.9
45	University of Tennessee, Knoxville	\$88.8 ¢87.0
46	Princeton University	\$87.9
47	Auburn University	\$87.8
48	Vanderbilt University	\$85
49	University of Notre Dame	\$84.3
50	University of Massachusetts Amherst	\$79.2
18	8 Institutions included	

\* 188 Institutions included

### 5.2 Research Expenditures by Source in Millions of Dollars

Table 102: Research Expenditures by Source in Millions of Dollars: 12,557

Expenditure	Amount
Federal Gov't	\$8,792
Industry	\$1,519
State Gov't	\$798
Private Nonprofit Org	\$997
Individual	\$121
Local Gov't	\$215
Foreign Govt	\$116



### 5.3 Computer Science Research Expenditures Located Outside of Engineering by Institutions

Table 103: Computer Science Research Expenditures L	ocated Out-
side of Engineering by Institution	

No	Institution	Expenditure(IN MILLIONS)
1	Carnegie Mellon University	\$163.7
2	The University of Texas at Austin	\$57.6
3	Georgia Institute of Technology	\$47.7
4	The University of Alabama in Huntsville	\$36.1
5	University of Maryland, College Park	\$35.2
6	University of Wisconsin-Madison	\$27.3
7	University of California, Irvine	\$22.7
8	Northeastern University	\$22.4
9	University of Massachusetts Amherst	\$20.3
10	Purdue University	\$17.8
11	Rutgers, The State University of New Jersey, School of Engineering	\$11.9
12	Brown University	\$11.1
13	Rensselaer Polytechnic Institute	\$10.2
14	New Jersey Institute of Technology	\$9.8
15	Worcester Polytechnic Institute	\$8.8
16	Duke University	\$7.2
17	The University of Texas at San Antonio	\$6.4
18	Boston University	\$5.9
19	University of Pittsburgh	\$4
20	Dartmouth College	\$3.9

\* 34 Institutions included

### 6 CANADIAN ENGINEERING

### 6.1 Engineering Bachelor's Degree by Canadian Institutions

Table 104: Engineering Bachelor's Degree by Canadian Institutions

No	Institutions	Degrees Awarded
1	Concordia University, Montreal	1,027
2	University of British Columbia	891
3	University of Alberta	886

#### 6.2 Engineering Master's Degree by Canadian Institutions

Table 105: Engineering Master's Degree by Canadian Institutions

No	Institutions	Degrees Awarded
1	Concordia University, Montreal	1,340
2	University of British Columbia	408
3	University of Alberta	332

### 6.3 Engineering Doctoral Degree by Canadian Institutions

Table 106: Engineering Doctoral Degree by Canadian Institutions

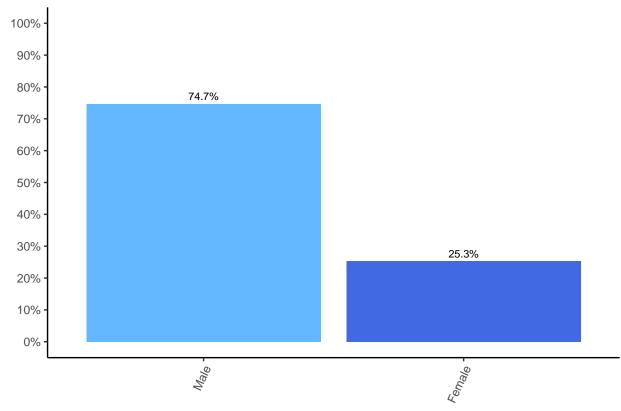
No	Institutions	Degrees Awarded
1	University of Alberta	136
2	Concordia University, Montreal	109
3	University of British Columbia	79

### 6.4 Bachelor's Degrees Awarded by Gender- Canadian Institutions

Table 107: Bachelor's Degrees Awarded by Gender- Canadian Institutions

Gender	Percentage
Female	26.8%
Male	73.2%

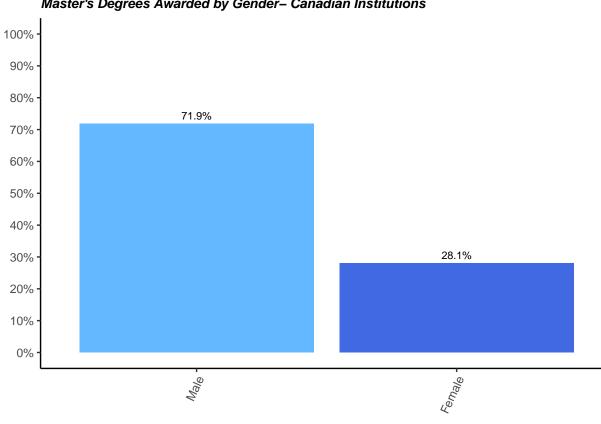
### Bachelor's Degrees Awarded by Gender- Canadian Institutions



### 6.5 Master's Degrees Awarded by Gender- Canadian

Table 108: Master's Degrees Awarded by Gender- Canadian Institutions

Gender	Percentage
Female	30.2%
Male	69.8%



### Master's Degrees Awarded by Gender- Canadian Institutions

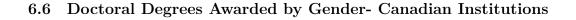
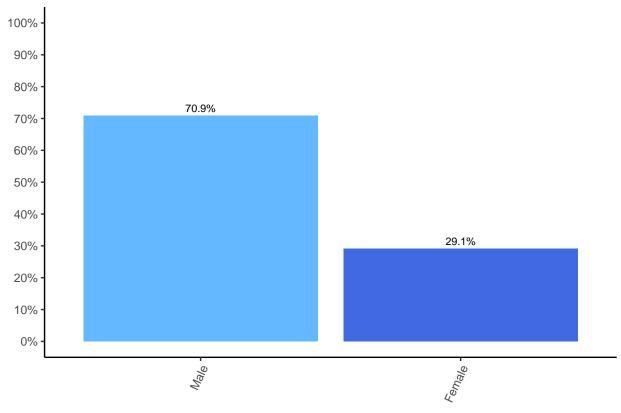


Table 109: Doctoral Degrees Awarded by Gender- Canadian Institutions

Gender	Percentage
Female	25.5%
Male	74.5%



Doctoral Degrees Awarded by Gender- Canadian Institutions

### 6.7 Tenured/Tenure-Track Faculty Members by Institutions

Table 110: Tenured/Tenure-Track Faculty Members by Institutions

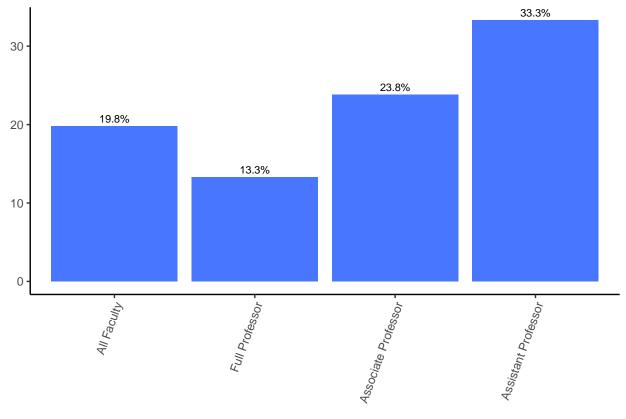
No	Institutions	Degrees Awarded
1	Concordia University, Montreal	287
2	University of Alberta	254
3	University of British Columbia	155

### 6.8 Percentage of Female Tenured/Tenure-Track Faculty by Rank- Canadian Institutions

Table 111: Doctoral Enrollment by Race and Ethnicity\*

Rank	Percent
All Faculty	19.8%
Full Professor	13.3%
Associate Professor	23.8%
Assistant Professor	33.3%

Percentage of Female Tenured/Tenure-Track Faculty by Rank- Canadian Institutions



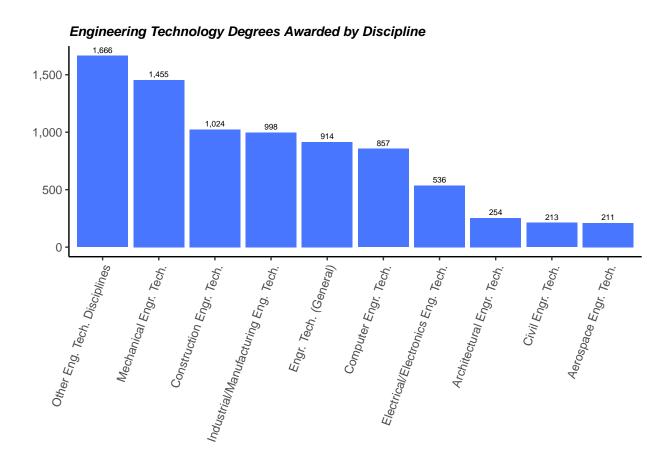
#### ENGINEERING TECHNOLOGY 7

#### ENGINEERING TECHNOLOGY DEGREES 7.1

### 7.1.1 Engineering Technology Degrees Awarded by Discipline

Discipline Name	Degrees Awarded
Other Eng. Tech. Disciplines	1,666
Mechanical Engr. Tech.	1,455
Construction Engr. Tech.	1,024
Industrial/Manufacturing Eng. Tech.	998
Engr. Tech. (General)	914
Computer Engr. Tech.	857
Electrical/Electronics Eng. Tech.	536
Architectural Engr. Tech.	254
Civil Engr. Tech.	213
Aerospace Engr. Tech.	211

Table 112: Engineering Technology Degrees Awarded by Discipline : 8,128



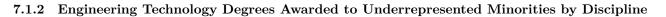


Table 113: Engineering Technology Degrees Awarded to Underrepresented Minorities by Engineering Discipline: 1,856

Discipline Name	Degrees Awarded
Other Eng. Tech. Disciplines	352
Construction Engr. Tech.	312
Mechanical Engr. Tech.	264
Computer Engr. Tech.	225
Industrial/Manufacturing Eng. Tech.	212
Engr. Tech. (General)	188
Electrical/Electronics Eng. Tech.	165
Aerospace Engr. Tech.	51
Civil Engr. Tech.	48
Architectural Engr. Tech.	39

Total does not include computer science (outside engineering).

#### 7.1.3 Percentage of Engineering Technology Degrees Awarded to Underrepresented Minorities by Discipline

Table 114: Percentage of Engineering Technology Degrees Awarded
to Underrepresented Minorities by Discipline 22.7 $\%$ of Total

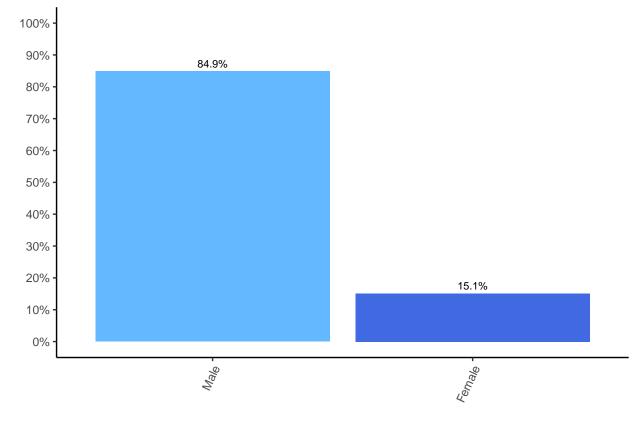
Discipline Name	Percent Women
Electrical/Electronics Eng. Tech.	30.8%
Construction Engr. Tech.	30.5%
Computer Engr. Tech.	26.3%
Aerospace Engr. Tech.	24.2%
Civil Engr. Tech.	22.5%
Industrial/Manufacturing Eng. Tech.	21.2%
Other Eng. Tech. Disciplines	21.1%
Engr. Tech. (General)	20.6%
Mechanical Engr. Tech.	18.1%
Architectural Engr. Tech.	15.4%

#### 7.1.4 Engineering Technology Bachelor's Degrees Awarded by Gender

Table 115: Engineering Technology Bachelor's Degrees Awarded by Gender

Gender	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Female Male	9.4% 90.6%	$9.5\%\ 90.5\%$	9.4% 90.6%	$10.2\% \\ 89.8\%$	$10.6\% \\ 89.4\%$	12.8% 87.2%				$13.6\% \\ 86.4\%$		$15.5\% \\ 84.5\%$

#### Engineering Technology Bachelor's Degrees Awarded by Gender



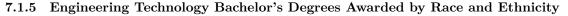
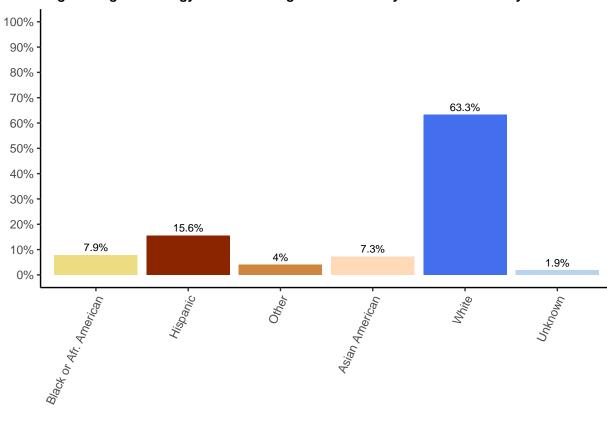


Table 116: Engineering Technology Bachelor's Degrees Awarded by Race and Ethnicity\*

Ethnicity	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Black or Afr. American	8.5%	9.2%	8.8%	8.8%	8.9%	8.5%	8.6%	6.9%	8.0%	7.5%	8.0%	7.7%
Hispanic	7.1%	7.6%	6.5%	7.8%	7.1%	9.2%	12.9%	10.6%	11.4%	11.6%	14.6%	11.9%
Other	1.0%	1.7%	1.5%	1.9%	1.7%	3.0%	4.1%	3.3%	3.5%	3.6%	4.2%	3.9%
Asian American	5.1%	5.3%	5.0%	4.9%	5.1%	5.8%	6.8%	6.4%	14.7%	5.4%	7.8%	5.2%
White	73.2%	70.4%	73.8%	72.4%	72.7%	68.7%	63.8%	68.4%	61.5%	67.3%	60.4%	67.7%
Unknown	5.1%	5.8%	4.5%	4.3%	4.5%	4.8%	3.8%	4.4%	4.2%	4.6%	5.0%	3.6%

\* American Indian/Alaska Native 0.6% Native Hawaiian/Other Pacific Islander 0.2% and Multiracial 3.3% are combined under other

 $^{\ast}$  Data on ethnicity does not include for eign nationals.



### Engineering Technology Bachelor's Degrees Awarded by Race and Ethnicity

7.1.6 Engineering Technology Bachelor's Degrees Awarded by Residency

Table 117: Engineering Technology Bachelor's Degrees Awarded by Residency

Nationality	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Foreign	5.2%	5.0%	7.4%	10.2%	7.1%	4.9%	6.8%	6.0%	6.8%	8.2%	7.4%	5.9%
Domestic	94.8%	95.0%	92.6%	89.8%	92.9%	95.1%	93.2%	94.0%	93.2%	91.8%	92.6%	94.1%

### Engineering Technology Bachelor's Degrees Awarded by Residency

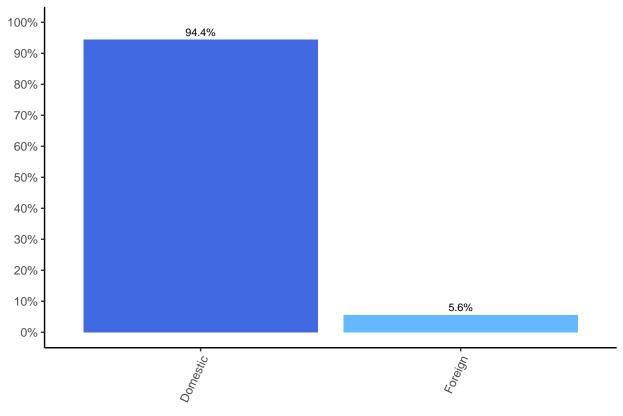


Table $118$ :	Top 50 Institutions	Awarding Highest	Number of ET
Degrees			

No	Institutions	Degrees Awarded
1	Arizona State University	918
2	Texas A&M University	724
3	Purdue University-Main Campus	618
4	East Carolina University	545
5	Rochester Institute of Technology	217
6	Ferris State University	202
7	New Jersey Institute of Technology	198
8	University of North Carolina at Charlotte	172
9	Texas State University	168
10	Oklahoma State University	163
11	San Jose State University	151
12	University of Southern Mississippi	143
13	University of Cincinnati	139
14	Kennesaw State University	131
15	Murray State University	122
16	Purdue University Northwest, Engineering	116
16	Tarleton State University	116
18	California State University-Chico	115
18	Wayne State University	115
20	Western Carolina University	107
21	University of North Texas	105
22	Ohio University	103
23	University of Maine	101
24	SUNY Polytechnic Institute	95
25	Eastern Washington University	92
26	Oregon Institute of Technology	89
27	Central Connecticut State University	86
28	California State University-Fresno	85
29	Northern Illinois University	82
30	The Pennsylvania State University	79
31	SUNY University at Buffalo	73
31	University of Louisiana at Lafayette	73
33	Weber State University	71
34	New Mexico State University	68
35	Georgia Southern University	66
36	Purdue University Fort Wayne	65
37	Southeast Missouri State University	64
38	Michigan Technological University	62
39	University of Dayton	59
40	Tennessee Technological University	57
41	Temple University	55
42	Louisiana Tech University	53
42	Old Dominion University	53
44	University of Hartford	52
$44 \\ 45$	÷	51
45 46	Brigham Young University - Idaho Minneseta Stata University Mankato	50
	Minnesota State University-Mankato	
47	University of Wisconsin - Stout	49
48	Texas A&M University - Kingsville	44
49	Lamar University	41
49	Middle Tennessee State University	41

\* 105 Institutions included

### 7.1.8 Top 50 Institutions by Engineering Technology Degrees awarded to Underrepresented Minorities

Table 119: Top 50 Institutions by Engineering Technology Degrees awarded to Underrepresented Minorities

No	Institutions	Degrees Awarded
1	Arizona State University	251
2	Texas A&M University	248
3	East Carolina University	123
4	Texas State University	69
5	New Jersey Institute of Technology	64
6	New Mexico State University	50
6	Purdue University-Main Campus	50
8	Kennesaw State University	47
9	University of North Texas	46
10	Rochester Institute of Technology	39
10	University of Southern Mississippi	39
12	California State University-Chico	38
13	California State University-Fresno	36
13	San Jose State University	36

Table 119: Top 50 Institutions by Enginee	ering Technology Degrees
awarded to Underrepresented Minorities	(continued)

No	Institutions	Degrees Awarded
15	Tarleton State University	32
16	Purdue University Northwest, Engineering	30
16	SUNY University at Buffalo	30
18	Texas A&M University - Kingsville	29
18	University of North Carolina at Charlotte	29
20	Central Connecticut State University	23
20	Florida Agricultural and Mechanical University	23
22	Northern Illinois University	22
23	Alabama A & M University	20
24	Norfolk State University	19
25	Oklahoma State University	18
25	SUNY Polytechnic Institute	18
27	Jackson State University	17
28	Lamar University	16
28	Temple University	16
28	University of Louisiana at Lafayette	16
31	The University of Memphis	14
31	University of Dayton	14
31	University of Hartford	14
31	Western Carolina University	14
35	Old Dominion University	13
36	Prairie View A & M University	12
36	University of Maryland Eastern Shore	12
38	Georgia Southern University	10
38	Louisiana Tech University	10
38	Weber State University	10
41	Eastern Washington University	9
41	Oregon Institute of Technology	9
41	Tennessee State University	9
41	University of Cincinnati	9
41	Vaughn College of Aeronautics and Technology	9
41	Western Illinois University	9
47	California State University, Northridge	8
47	Texas A & M University-Corpus Christi	8
49	Central Michigan University	7
49	Embry-Riddle Aeronautical University-Worldwide	7
* 10	5 Institutions included	

105 mstitutions metuded

### 7.1.9 Top 50 Institutions by Percentage of Engineering Technology Degrees awarded to Underrepresented Minorities

# Table 120: Top 50 Institutions by Percentage of Engineering Technology Degrees awarded to Underrepresented Minorities

No	Institutions	Percent Underrepresented Minorities
1	Central State University	100%
1	Jackson State University	100%
1	Southern University and A & M College	100%
1	The University of Texas Rio Grande Valley	100%
5	Alabama A & M University	95.2%
6	Prairie View A & M University	92.3%
7	Florida Agricultural and Mechanical University	92%
8	Norfolk State University	90.5%
9	New Mexico State University	73.5%
10	Capitol Technology University	66.7%
11	Texas A&M University - Kingsville	65.9%
12	Rice University	60%
12	Tennessee State University	60%
14	University of Nevada, Las Vegas	55.6%
15	Pace University	50%
15	University of Maryland Eastern Shore	50%
17	Western Illinois University	45%
18	Texas A & M University-Commerce	44.4%
18	Texas A & M University-Corpus Christi	44.4%
20	University of North Texas	43.8%
21	California State University-Fresno	42.4%
22	SUNY University at Buffalo	41.1%
23	Texas State University	41.1%
24	Francis Marion University	40%
25	Lamar University	39%
26	Kennesaw State University	35.9%
27	The University of Memphis	35%
28	Texas A&M University	34.3%
29	California State University, Northridge	33.3%
29	Fairleigh Dickinson University-Metropolitan Campus	33.3%
29	South Dakota School of Mines and Technology	33.3%
29	Western Washington University	33.3%
33	California State University-Chico	33%
34	New Jersey Institute of Technology	32.3%
35	University of Massachusetts Lowell	31.2%

Table 120: Top 50 Institutions by Percentage of Engineering Technology Degrees awarded to Underrepresented Minorities (continued)

No	Institutions	Percent Underrepresented Minorities
36	Central Michigan University	29.2%
37	Temple University	29.1%
38	Lake Superior State University	28.6%
38	University of Arkansas at Little Rock	28.6%
38	West Texas A & M University	28.6%
41	Tarleton State University	27.6%
42	Arizona State University	27.3%
43	University of Southern Mississippi	27.3%
44	University of Hartford	26.9%
45	Northern Illinois University	26.8%
46	Central Connecticut State University	26.7%
47	Purdue University Northwest, Engineering	25.9%
48	Old Dominion University	24.5%
49	San Jose State University	23.8%
50	University of Dayton	23.7%

\* 105 Institutions included

#### 7.1.10 Top 50 Institutions Awarding Engineering Technology Degrees to Women

Table 121: Top 50 Institutions Awarding Engineering Technology Degrees to Women

No	Institutions	Degrees Awarded
1	Arizona State University	262
2	Texas A&M University	124
3	Purdue University-Main Campus	92
4	East Carolina University	83
5	Ferris State University	38
6	Rochester Institute of Technology	33
7	University of Southern Mississippi	32
8	New Jersey Institute of Technology	26
8	SUNY Polytechnic Institute	26
10	Texas State University	24
11	Oklahoma State University	23
12	Murray State University	22
12	San Jose State University	22
14	University of North Texas	16
14	Wayne State University	16
16	Kennesaw State University	14
17	University of Cincinnati	13
17	University of Dayton	13
17	University of Maine	13
20	California State University-Chico	11
20	California State University-Fresno	11
20	Southeast Missouri State University	11
23	New Mexico State University	10
23	North Carolina State University at Raleigh	10
23	University of North Carolina at Charlotte	10
26	Southern Utah University	9
26	University of Hartford	9
20		8
28 28	Lamar University	
	Michigan Technological University	8
28	Oregon Institute of Technology	8
28	Tarleton State University	8
32	Central Connecticut State University	7
32	Jackson State University	7
32	Middle Tennessee State University	7
32	Norfolk State University	7
32	Ohio University	7
32	Old Dominion University	7
32	SUNY University at Buffalo	7
32	Temple University	7
32	The University of Memphis	7
32	Western Carolina University	7
42	Purdue University Fort Wayne	6
42	Texas A&M University - Kingsville	6
42	The University of West Florida	6
45	Alabama A & M University	5
45	Central Michigan University	5
45	Drexel University	5
45	Embry-Riddle Aeronautical University-Worldwide	5
45	Fairleigh Dickinson University-Metropolitan Campus	5
45	Louisiana Tech University	5

\* 105 Institutions included

### 7.2 ENGINEERING TECHNOLOGY ENROLLMENT, FALL 2021

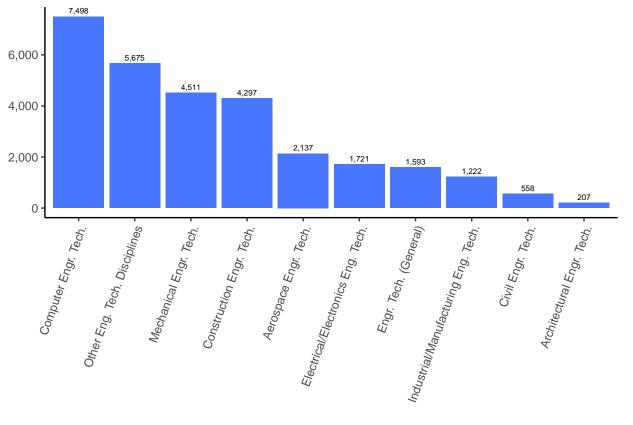
### 7.2.1 Full time Engineering Technology Enrollment by Discipline

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Table 122: Full time Engineering Te	chnology Enrollment by Discipline: 29,419
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Discipline Name	Degrees Awarded
Computer Engr. Tech.	7,498
Other Eng. Tech. Disciplines	$5,\!675$
Mechanical Engr. Tech.	4,511
Construction Engr. Tech.	4,297
Aerospace Engr. Tech.	2,137
Electrical/Electronics Eng. Tech.	1,721
Engr. Tech. (General)	1,593
Industrial/Manufacturing Eng. Tech.	1,222
Civil Engr. Tech.	558
Architectural Engr. Tech.	207

<sup>\*</sup> Enrollment is for full time Bachelor's degree candidates in Engineering Technology



#### full time Engineering Technology Enrollment by Discipline

#### 7.2.2 Top 50 Institutions by Engineering Technology Enrollment

Table 123: Top 50 Institutions by Engineering Technology Enrollment

No	Institutions	Enrollments
1	Arizona State University	21,671
2	Texas A&M University	21,011
3	East Carolina University	2,392
4	Rochester Institute of Technology	1,170
5	Eastern Michigan University	928
6	New Jersey Institute of Technology	907
7	Kennesaw State University	877
8	The University of Toledo	705
9	University of North Carolina at Charlotte	694
10	University of Cincinnati	679
11	Farmingdale State College (SUNY)	671
12	Purdue University Northwest, Engineering	661
13	Purdue University Polytechnic Institute	629
14	San Jose State University	610
15	University of Maine	569
16	Oklahoma State University	503
17	Brigham Young University - Idaho	499
18	New Mexico State University	496
19	Western Carolina University	464
20	Oregon Institute of Technology	462
21	Ohio University	407
22	Montana State University	386
23	Wayne State University	356
24	Louisiana Tech University	331

Table 123: Top 50	Institutions	by I	Engineering	Technology	Enroll-
ment (continued)					

No	Institutions	Enrollments
25	University of North Texas	325
26	SUNY Polytechnic Institute	305
27	The Pennsylvania State University	279
28	Old Dominion University	273
29	South Dakota State University	266
30	Penn State Erie, The Behrend College	229
31	University of Louisiana at Lafayette	221
32	Virginia State University	220
33	Tennessee Technological University	203
34	University of Dayton	188
35	Indiana University-Purdue University Indianapolis	185
36	Temple University	174
37	The University of Memphis	165
38	Western Michigan University	163
39	Cleveland State University	156
40	California State University Maritime Academy	155
41	Drexel University	148
42	Wright State University	147
43	Bradley University	143
44	The Ohio State University	124
45	Central Michigan University	98
46	Southern Illinois University Carbondale	80
47	University of Arkansas at Little Rock	78
48	University of Massachusetts Lowell	56
49	West Virginia University	30
50	University of Idaho	12

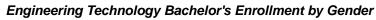
\* 105 Institutions reported.

\* Enrollment is for full time and part-time Bachelor's degree candidates in engineering technology.

### 7.2.3 Engineering Technology Enrollment by Gender

#### Table 124: Engineering Technology Enrollment by Gender

Gender	Percentage
Female	17.4%
Male	82.6%



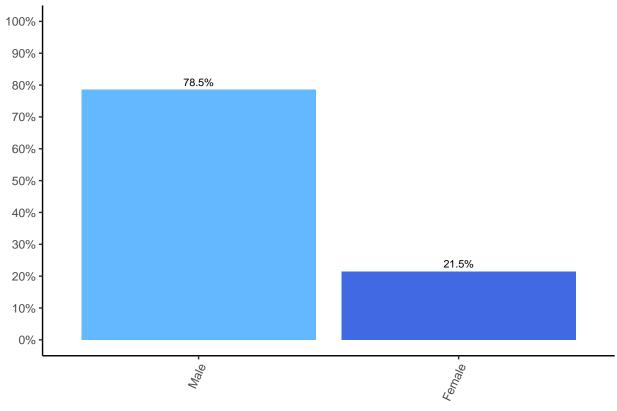


Table 125:	Engineering	Technology	Enrollment by	Race and	$\operatorname{Ethnicity}^{*}$
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Ethnicity	Percentage
Black or Afr. American	9.1%
Hispanic	14.6%
Other	4.5%
Asian American	7.5%
White	62.3%
Unknown	2%

 $^*$  American Indian/Alaska Native 0.7% Native Hawaiian/Other Pacific Islander 0.3%  $^*$  and Multiracial 6.6% are combined under other

<sup>\*</sup> Data on ethnicity does not include foreign nationals.

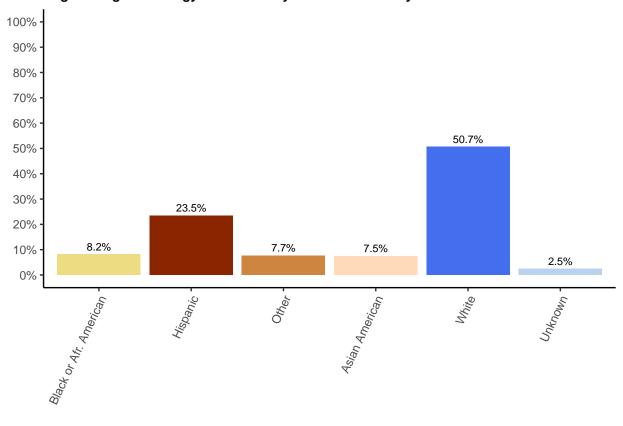




Table 126: Engineering Technology Enrollment Awarded by Residency

Nationality	Percentage
Foreign	3.8%
Domestic	96.2%
* Enrollment	t is for full time and part-time Bachelor's degree candidates in engineering technology

\* 51 Institutions reported.

### Engineering Technology Enrollment Awarded by Residency

