

ASEE 2023 Edition

Engineering  
& Engineering Technology  
BY THE NUMBERS



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.

[www.asee.org](http://www.asee.org)

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

©2024 by the American Society for Engineering Education. All rights reserved.

American Society for Engineering Education  
1818 N Street NW, Suite 315  
Washington, DC 20036

This report is available for download at <https://ira.asee.org/by-the-numbers/>.

#### **Suggested Citation**

[only for reference] American Society for Engineering Education. (2024).  
*Profiles of Engineering and Engineering Technology, 2023*. Washington, DC.

## **December 17, 2024**

There was a mistake with the participation list and research expenditure data that was corrected.

## **Update March 2, 2025**

The following tables have been removed from the Engineering by the Numbers publication. The data originally published were incorrect.

- 3.1.14 Top 50 Institutions Awarding Bachelor's Degrees (excluding computer science both inside and outside Engineering)
- 3.1.15 Top 50 Institutions Awarding Master's Degrees (excluding computer science both inside and outside Engineering)
- 3.1.16 Top 50 Institutions Awarding Doctoral Degrees (excluding computer science both inside and outside Engineering)

Arizona State University identified an error in the 2023 submission and updated the enrollment data. The new enrollment data are reflected in the published tables.



## 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 (<https://nces.nsf.gov/pubs/nsb20201/glossary>): *"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 University  
 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  
 Lafayette 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 Jersey  
 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 University  
 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 Missouri - Kansas City                   |
| University of Alaska Fairbanks-College of Engineering and Mines | University of Nebraska-Lincoln                         |
| University of Arizona   | University of Nevada-Las Vegas                         |
| University of Arkansas  | University of Nevada-Reno                              |
| University of Arkansas at Little Rock                           | University of New Hampshire                            |
| University of British Columbia                                  | University of North Carolina at Charlotte              |
| University of Calgary   | University of North Texas                              |
| University of California-Berkeley                               | University of Notre Dame                               |
| University of California-Davis                                  | University of Oklahoma-Gallogly College of Engineering |
| University of California-Irvine                                 | University of Pennsylvania                             |
| University of California-Los Angeles                            | University of Pittsburgh                               |
| University of California-Merced                                 | University of Puerto Rico-Mayaguez Campus              |
| University of California-Riverside                              | University of Rhode Island                             |
| University of California-San Diego                              | University of Rochester                                |
| University of California-Santa Barbara                          | University of San Diego                                |
| University of California-Santa Cruz                             | University of South Alabama                            |
| University of Central Florida                                   | University of South Carolina                           |
| University of Cincinnati  | University of South Florida                            |
| University of Colorado Boulder                                  | University of Southern California                      |
| University of Colorado Denver                                   | University of Tennessee-Knoxville                      |
| University of Connecticut                                       | University of Texas of the Permian Basin               |
| University of Dayton  | University of the District of Columbia                 |
| University of Delaware  | University of the Pacific                              |
| University of Detroit Mercy                                     | University of Utah                                     |
| University of Florida   | University of Vermont                                  |
| University of Georgia   | University of Virginia                                 |
| University of Hawaii at Manoa                                   | University of Waterloo                                 |
| University of Houston   | University of Wisconsin-Madison                        |
| University of Idaho   | University of Wisconsin-Milwaukee                      |
| University of Illinois at Chicago                               | Utah State University                                  |
| University of Illinois at Urbana-Champaign                      | Valparaiso University                                  |
| University of Kansas  | Vanderbilt University                                  |
| University of Kentucky  | Villanova University                                   |
| University of Louisiana at Lafayette                            | Virginia Commonwealth University                       |
| University of Louisville  | Virginia Polytechnic Institute and State University    |
| University of Maine   | Washington State University                            |
| University of Maryland-Baltimore County                         | Washington University in St. Louis                     |
| University of Maryland-College Park                             | Wayne State University                                 |
| University of Massachusetts Amherst                             | West Virginia University                               |
| University of Massachusetts Lowell                              | Western Michigan University                            |
| University of Michigan  | Wichita State University                               |
| University of Michigan-Dearborn                                 | William Marsh Rice University                          |
| University of Minnesota -Twin Cities                            | Worcester Polytechnic Institute                        |
| University of Missouri  | 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                           | James Madison University                      |
| Anderson University                                | Lake Superior State University                |
| Andrews University                                 | Lamar University                              |
| Arkansas Tech University                           | Lawrence Technological University             |
| Baker College                                      | LeTourneau University                         |
| Bates College                                      | Liberty University                            |
| Benedictine College                                | Lipscomb University                           |
| Bethune-Cookman University                         | Loras College                                 |
| Bob Jones University                               | Loyola University Maryland                    |
| California Baptist University                      | Maine Maritime Academy                        |
| California State University-Bakersfield            | Manhattan College                             |
| California State University-Chico                  | Marietta College                              |
| California State University-East Bay               | Marshall University                           |
| California State University-Fresno                 | Massachusetts Maritime Academy                |
| California State University-Northridge             | McNeese State University                      |
| California State University-San Bernardino         | Merrimack College                             |
| Capitol Technology University                      | Michigan Technological University             |
| Carroll College                                    | Middle Tennessee State University             |
| Central Connecticut State University               | Midwestern State University                   |
| Christian Brothers University                      | Minnesota State University-Mankato            |
| Christopher Newport University                     | Mississippi College                           |
| College of Staten Island CUNY                      | Monmouth University                           |
| CUNY City College                                  | Montana Technological University              |
| Eastern Illinois University                        | Mount Vernon Nazarene University              |
| Eastern Washington University                      | Murray State University                       |
| Elizabethtown College                              | Muskingum University                          |
| Fairfield University                               | Navajo Technical University                   |
| Fairleigh Dickinson University-Metropolitan Campus | New Mexico Institute of Mining and Technology |
| Ferris State University                            | Norfolk State University                      |
| Florida Agricultural and Mechanical University     | North Carolina State University at Raleigh    |
| Florida Atlantic University                        | Northern Arizona University                   |
| Florida Gulf Coast University                      | Northern Illinois University                  |
| Florida International University                   | Northwest Nazarene University                 |
| Florida Polytechnic University                     | Norwich University                            |
| Fort Lewis College                                 | Oklahoma Christian University                 |
| Francis Marion University                          | Olivet Nazarene University                    |
| Frostburg State University                         | Oral Roberts University                       |
| Gannon University                                  | Pace University                               |
| Geneva College                                     | Prairie View A & M University                 |
| Georgia Institute of Technology-Main Campus        | Purdue University Fort Wayne                  |
| Georgia Southern University                        | Purdue University Northwest                   |
| Hampton University                                 | Purdue University-Main Campus                 |
| Harding University                                 | Quinnipiac University                         |
| Hope College                                       | Rice University                               |
| Idaho State University                             | Robert Morris University                      |
| Illinois Institute of Technology                   | Rochester Institute of Technology             |
| Indiana Institute of Technology                    | Roger Williams University                     |
| Jackson State 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  
 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

## **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 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*

## **ASEE Engineering Deans Council Leadership**

Kenneth Ball  
Chair, Engineering Deans Council  
*George Mason University*

Gregory Triplett  
Chair, EDC Data Committee  
*Saint Louis University*

## **ASEE Senior Leadership Team**

Jacqueline El Sayed  
Executive Director and Chief Executive Officer

Patti Greenawalt  
Chief Operating Officer

Monique Maddox  
Chief Administrative Officer

Joseph Roy  
Chief Data & Technology Officer

Jaime Ulloa  
Chief Financial Officer

## **ASEE Data Collections Advisory Board**

Christopher Cantrell  
*Texas A&M*

Timothy Chow  
*Rose-Hulman Institute of Technology*

Tish Ramlal-Lamble  
*Virginia Tech*

Monica Poindexter  
*Morgan State University*

David Robledo  
*Purdue University*

Patreena Parsons  
*Johns Hopkins University*

Minghui Wang  
*Stevens Institute of Technology*

Shirley Wong  
*Massachusetts Institute of Technology*

Jennifer Wu  
*Penn State University*

# Engineering & Engineering Technology by the Numbers, 2023

## Contents

|          |   |           |
|----------|---|-----------|
| <b>1</b> | <b>ENGINEERING BACHELOR'S</b>   | <b>3</b>  |
| 1.1      | ENGINEERING BACHELOR'S DEGREES . . . . .  | 3         |
| 1.1.1    | Total Bachelor's Degrees Awarded by Engineering Discipline . . . . .  | 3         |
| 1.1.2    | Total Bachelor's Degrees Awarded to Underrepresented Minorities by Engineering Discipline . . . . .         | 4         |
| 1.1.3    | Percentage of Bachelor's Degrees Awarded to Underrepresented Minorities by Discipline . . . . .             | 4         |
| 1.1.4    | Percentage of Bachelor's Degrees Awarded to Women by Discipline . . . . .                                   | 4         |
| 1.1.5    | Institutions Awarding the Highest Number of Engineering Bachelor's Degrees . . . . .                        | 5         |
| 1.1.6    | Bachelor's Degrees Awarded by Gender . . . . .  | 6         |
| 1.1.7    | Bachelor's Degrees Awarded by Race and Ethnicity . . . . .  | 6         |
| 1.1.8    | Bachelor's Degrees Awarded by Residency . . . . .   | 7         |
| 1.1.9    | Bachelor's Degrees Awarded by Race, Ethnicity and Gender . . . . .  | 8         |
| 1.1.10   | Top 50 Institutions by Total Bachelor's Degrees awarded to Underrepresented Minorities . . . . .            | 8         |
| 1.1.11   | Top 50 Institutions by Total Bachelor's Degrees awarded to Women . . . . .                                  | 9         |
| 1.1.12   | Top 50 Institutions by Percentage of Bachelor's Degrees awarded to Underrepresented Minorities . . . . .    | 10        |
| 1.1.13   | Top 20 Institutions by Percentage of Bachelor's Degrees awarded to Women . . . . .                          | 11        |
| 1.1.14   | Top 20 Institutions by Total Bachelor's Degrees awarded to African Americans . . . . .                      | 11        |
| 1.1.15   | Top 20 Institutions by Total Bachelor's Degrees awarded to Asian Americans . . . . .                        | 11        |
| 1.1.16   | Top 20 Institutions by Total Bachelor's Degrees awarded to Hispanics . . . . .                              | 12        |
| 1.1.17   | Top 20 Institutions by Total Bachelor's Degrees awarded in Aerospace Engineering . . . . .                  | 12        |
| 1.1.18   | Top 20 Institutions by Total Bachelor's Degrees awarded in Biomedical Engineering . . . . .                 | 12        |
| 1.1.19   | Top 50 Institutions by Total Bachelor's Degrees awarded in Chemical Engineering . . . . .                   | 13        |
| 1.1.20   | Top 50 Institutions by Total Bachelor's Degrees awarded in Civil Engineering . . . . .                      | 13        |
| 1.1.21   | Top 50 Institutions by Total Bachelor's Degrees awarded in Industrial/Manufacturing Engineering . . . . .   | 14        |
| 1.1.22   | Top 50 Institutions by Total Bachelor's Degrees awarded in Mechanical Engineering . . . . .                 | 15        |
| 1.1.23   | Top 50 Institutions by Total Bachelor's Degrees awarded in Electrical Engineering . . . . .                 | 16        |
| 1.1.24   | Top 50 Institutions by Total Bachelor's Degrees awarded in Computer Engineering . . . . .                   | 16        |
| 1.1.25   | Top 20 Institutions by Total Bachelor's Degrees awarded in Electrical/Computer Engineering . . . . .        | 17        |
| 1.1.26   | Top 20 Institutions by Total Bachelor's Degrees awarded in Computer Science (outside engineering) . . . . . | 18        |
| 1.1.27   | Top 50 Institutions by Total Bachelor's Degrees awarded in Computer Science (inside engineering) . . . . .  | 18        |
| 1.1.28   | Top 50 Institutions by Total Bachelor's Degrees awarded in Engineering (General) . . . . .                  | 19        |
| 1.2      | ENGINEERING UNDERGRADUATE ENROLLMENT, FALL 2023 . . . . .   | 20        |
| 1.2.1    | Undergraduate Enrollment by Race, Ethnicity, and Gender . . . . .   | 20        |
| 1.2.2    | Engineering Undergraduate Enrollment by Institutions . . . . .  | 20        |
| 1.2.3    | Undergraduate Enrollment by Engineering Discipline . . . . .  | 22        |
| 1.2.4    | Undergraduate Enrollment by Engineering Discipline:(Full time and Part time) . . . . .                      | 23        |
| 1.2.5    | Undergraduate Enrollment by Gender . . . . .  | 23        |
| 1.2.6    | Undergraduate Enrollment by Race and Ethnicity . . . . .  | 23        |
| 1.2.7    | Undergraduate Enrollment by Residency . . . . .   | 24        |
| <b>2</b> | <b>ENGINEERING MASTER'S</b>   | <b>25</b> |
| 2.1      | ENGINEERING MASTER'S DEGREE . . . . .   | 25        |
| 2.1.1    | Master's Degrees Awarded by Engineering Discipline . . . . .  | 25        |
| 2.1.2    | Total Master's Degrees Awarded to Underrepresented Minorities by Engineering Discipline . . . . .           | 26        |
| 2.1.3    | Percentage of Master's Degrees Awarded to Underrepresented Minorities by Discipline . . . . .               | 26        |
| 2.1.4    | Percentage of Master's Degrees Awarded to Women by Discipline . . . . .                                     | 26        |
| 2.1.5    | Master's Degrees Awarded by Gender . . . . .  | 27        |
| 2.1.6    | Master's Degrees Awarded by Race and Ethnicity . . . . .  | 28        |
| 2.1.7    | Master's Degrees Awarded by Residency . . . . .   | 28        |
| 2.1.8    | Master's Degrees Awarded by Race, Ethnicity, and Gender . . . . .   | 29        |
| 2.1.9    | Top 50 Institutions Awarding Engineering Master's Degrees . . . . .   | 30        |
| 2.1.10   | Top 20 Institutions by Total Master's Degrees awarded to Underrepresented Minorities . . . . .              | 31        |
| 2.1.11   | Top 50 Institutions by Percentage of Master's Degrees awarded to Underrepresented Minorities . . . . .      | 31        |
| 2.1.12   | Top 20 Institutions Awarding Highest Percentage of Master's Degrees to Women . . . . .                      | 32        |
| 2.1.13   | Top 20 Institutions by Total Master's Degrees awarded in Engineering (General) . . . . .                    | 32        |
| 2.2      | ENGINEERING MASTER'S ENROLLMENT . . . . .   | 33        |
| 2.2.1    | Master's Enrollment by Race, Ethnicity, and Gender . . . . .  | 33        |
| 2.2.2    | Top 50 Institutions with Highest Graduate Enrollment . . . . .  | 33        |
| 2.2.3    | Master's Enrollment by Engineering Discipline:(Full time and Part time) . . . . .                           | 34        |
| 2.2.4    | Master's Enrollment by Gender . . . . .   | 34        |
| 2.2.5    | Master's Enrollment by Race and Ethnicity . . . . .   | 35        |
| 2.2.6    | Master's Enrollment by Residency . . . . .  | 35        |
| <b>3</b> | <b>ENGINEERING DOCTORAL</b>   | <b>37</b> |
| 3.1      | ENGINEERING DOCTORAL DEGREES . . . . .  | 37        |
| 3.1.1    | Doctoral Degrees Awarded by Engineering Discipline . . . . .  | 37        |
| 3.1.2    | Total Doctoral Degrees Awarded to Underrepresented Minorities by Engineering Discipline . . . . .           | 38        |
| 3.1.3    | Percentage of Doctoral Degrees Awarded to Underrepresented Minorities by Discipline . . . . .               | 38        |
| 3.1.4    | Percentage of Doctoral Degrees Awarded to Women by Discipline . . . . .                                     | 39        |
| 3.1.5    | Doctoral Degrees Awarded by Gender . . . . .  | 39        |
| 3.1.6    | Doctoral Degrees Awarded by Race and Ethnicity . . . . .  | 40        |
| 3.1.7    | Doctoral Degrees Awarded by Residency . . . . .   | 41        |
| 3.1.8    | Doctoral Degrees Awarded by Race, Ethnicity, and Gender . . . . .   | 41        |
| 3.1.9    | Top 50 Institutions Awarding Engineering Doctoral Degrees . . . . .   | 42        |
| 3.1.10   | Top 20 Institutions by Total Doctoral Degrees awarded to Underrepresented Minorities . . . . .              | 43        |

|          |  |           |
|----------|--|-----------|
| 3.1.11   | Top 50 Institutions by Percentage of Doctoral Degrees awarded to Underrepresented Minorities . . . . .               | 43        |
| 3.1.12   | Top 20 Institutions Awarding Highest Percentage of Doctoral Degrees to Women . . . . .                               | 44        |
| 3.1.13   | Top 50 Institutions Awarding Doctoral Degrees to Foreign Nationals . . . . .   | 44        |
| 3.1.14   | Institutions with the Highest Percentage of Doctoral Degrees to Foreign Nationals . . . . .                          | 45        |
| 3.1.15   | Institutions with the Lowest Percentage of Doctoral Degrees to Foreign Nationals . . . . .                           | 46        |
| 3.1.16   | Top 10 Institutions by Total Doctoral Degrees awarded in Engineering (General) . . . . .                             | 46        |
| 3.2      | ENGINEERING DOCTORAL ENROLLMENT . . . . .  | 47        |
| 3.2.1    | Doctoral Enrollment by Race, Ethnicity, and Gender . . . . .   | 47        |
| 3.2.2    | Doctoral Enrollment by Engineering Discipline:(Full time and Part time) . . . . .                                    | 48        |
| 3.2.3    | Doctoral Enrollment by Gender . . . . .  | 48        |
| 3.2.4    | Doctoral Enrollment by Race and Ethnicity . . . . .  | 49        |
| 3.2.5    | Doctoral Enrollment by Residency . . . . .   | 49        |
| <b>4</b> | <b>ENGINEERING FACULTY</b>   | <b>50</b> |
| 4.1      | Number of Tenured/Tenure-Track Faculty by Engineering Discipline . . . . .   | 50        |
| 4.2      | Percentage of Female Tenured/Tenure-Track Faculty by Discipline . . . . .  | 51        |
| 4.3      | Top 50 Institutions by Number of Tenured/Tenure-Track Faculty . . . . .  | 51        |
| 4.4      | Top 20 Institutions by Number of Underrepresented Minorities Tenured/Tenure-Track Faculty . . . . .                  | 52        |
| 4.5      | Top 20 Institutions by Percentage of Underrepresented Minorities Tenured/Tenure-Track Faculty . . . . .              | 53        |
| 4.6      | Number of Engineering Teaching Personnel by Rank . . . . .   | 53        |
| 4.7      | Percentage of Female Tenured/Tenure-Track Faculty by Rank . . . . .  | 54        |
| 4.8      | Top 50 Institutions with Highest Percentage of Female Tenured/Tenure Track Faculty . . . . .                         | 55        |
| 4.9      | Top 20 Institutions with Highest Number of Female Tenured/Tenure-Track Faculty . . . . .                             | 56        |
| 4.10     | Percentage of Women and Minority Faculty Members . . . . .   | 56        |
| 4.11     | Number of Full Professors by Race/Ethnicity . . . . .  | 57        |
| 4.12     | Number of Associate Professors by Race/Ethnicity . . . . .   | 57        |
| 4.13     | Number of Assistant Professors by Race/Ethnicity . . . . .   | 58        |
| 4.14     | Percentage of Black/African American Tenured/Tenure-Track Faculty by Rank . . . . .                                  | 59        |
| 4.15     | Percentage of Asian Tenured/Tenure-Track Faculty by Rank . . . . .   | 59        |
| 4.16     | Percentage of Hispanic Tenured/Tenure-Track Faculty by Rank . . . . .  | 60        |
| 4.17     | African American Tenured/Tenure Track Faculty by Institutions . . . . .  | 60        |
| 4.18     | Asian Tenured/Tenure Track Faculty by Institutions . . . . .   | 61        |
| 4.19     | Hispanic Tenured/Tenure Track Faculty by Institutions . . . . .  | 61        |
| 4.20     | Percentage of African American Tenured/Tenure-Track Faculty by Discipline . . . . .                                  | 62        |
| 4.21     | Percentage of Hispanic Tenured/Tenure-Track Faculty by Discipline . . . . .  | 63        |
| 4.22     | Percentage of Asian Tenured/Tenure-Track Faculty by Discipline . . . . .   | 64        |
| <b>5</b> | <b>ENGINEERING RESEARCH EXPENDITURES</b>   | <b>65</b> |
| 5.1      | Top 50 Research Expenditure by Institutions . . . . .  | 65        |
| 5.2      | Research Expenditures by Source in Millions of Dollars . . . . .   | 65        |
| 5.3      | Computer Science Research Expenditures Located Outside of Engineering by Institutions . . . . .                      | 66        |
| <b>6</b> | <b>CANADIAN ENGINEERING</b>  | <b>67</b> |
| 6.1      | Engineering Bachelor's Degree by Canadian Institutions . . . . .   | 67        |
| 6.2      | Engineering Master's Degree by Canadian Institutions . . . . .   | 67        |
| 6.3      | Engineering Doctoral Degree by Canadian Institutions . . . . .   | 67        |
| 6.4      | Bachelor's Degrees Awarded by Gender- Canadian Institutions . . . . .  | 67        |
| 6.5      | Master's Degrees Awarded by Gender- Canadian . . . . .   | 67        |
| 6.6      | Doctoral Degrees Awarded by Gender- Canadian Institutions . . . . .  | 68        |
| 6.7      | Tenured/Tenure-Track Faculty Members by Institutions . . . . .   | 69        |
| 6.8      | Percentage of Female Tenured/Tenure-Track Faculty by Rank- Canadian Institutions . . . . .                           | 69        |
| <b>7</b> | <b>ENGINEERING TECHNOLOGY</b>  | <b>70</b> |
| 7.1      | ENGINEERING TECHNOLOGY DEGREES . . . . .   | 70        |
| 7.1.1    | Engineering Technology Degrees Awarded by Discipline . . . . .   | 70        |
| 7.1.2    | Engineering Technology Degrees Awarded to Underrepresented Minorities by Discipline . . . . .                        | 70        |
| 7.1.3    | Percentage of Engineering Technology Degrees Awarded to Underrepresented Minorities by Discipline . . . . .          | 71        |
| 7.1.4    | Engineering Technology Bachelor's Degrees Awarded by Gender . . . . .  | 71        |
| 7.1.5    | Engineering Technology Bachelor's Degrees Awarded by Race and Ethnicity . . . . .                                    | 71        |
| 7.1.6    | Engineering Technology Bachelor's Degrees Awarded by Residency . . . . .   | 72        |
| 7.1.7    | Top 50 Institutions Awarding Highest Number of ET Degrees . . . . .  | 73        |
| 7.1.8    | Top 50 Institutions by Engineering Technology Degrees awarded to Underrepresented Minorities . . . . .               | 73        |
| 7.1.9    | Top 50 Institutions by Percentage of Engineering Technology Degrees awarded to Underrepresented Minorities . . . . . | 74        |
| 7.1.10   | Top 50 Institutions Awarding Engineering Technology Degrees to Women . . . . .                                       | 75        |
| 7.2      | ENGINEERING TECHNOLOGY ENROLLMENT, FALL 2021 . . . . .   | 76        |
| 7.2.1    | Full time Engineering Technology Enrollment by Discipline . . . . .  | 76        |
| 7.2.2    | Top 50 Institutions by Engineering Technology Enrollment . . . . .   | 76        |
| 7.2.3    | Engineering Technology Enrollment by Gender . . . . .  | 77        |
| 7.2.4    | Engineering Technology Enrollment by Race and Ethnicity . . . . .  | 78        |
| 7.2.5    | Engineering Technology Enrollment by Residency . . . . .   | 79        |

# 1 ENGINEERING BACHELOR'S

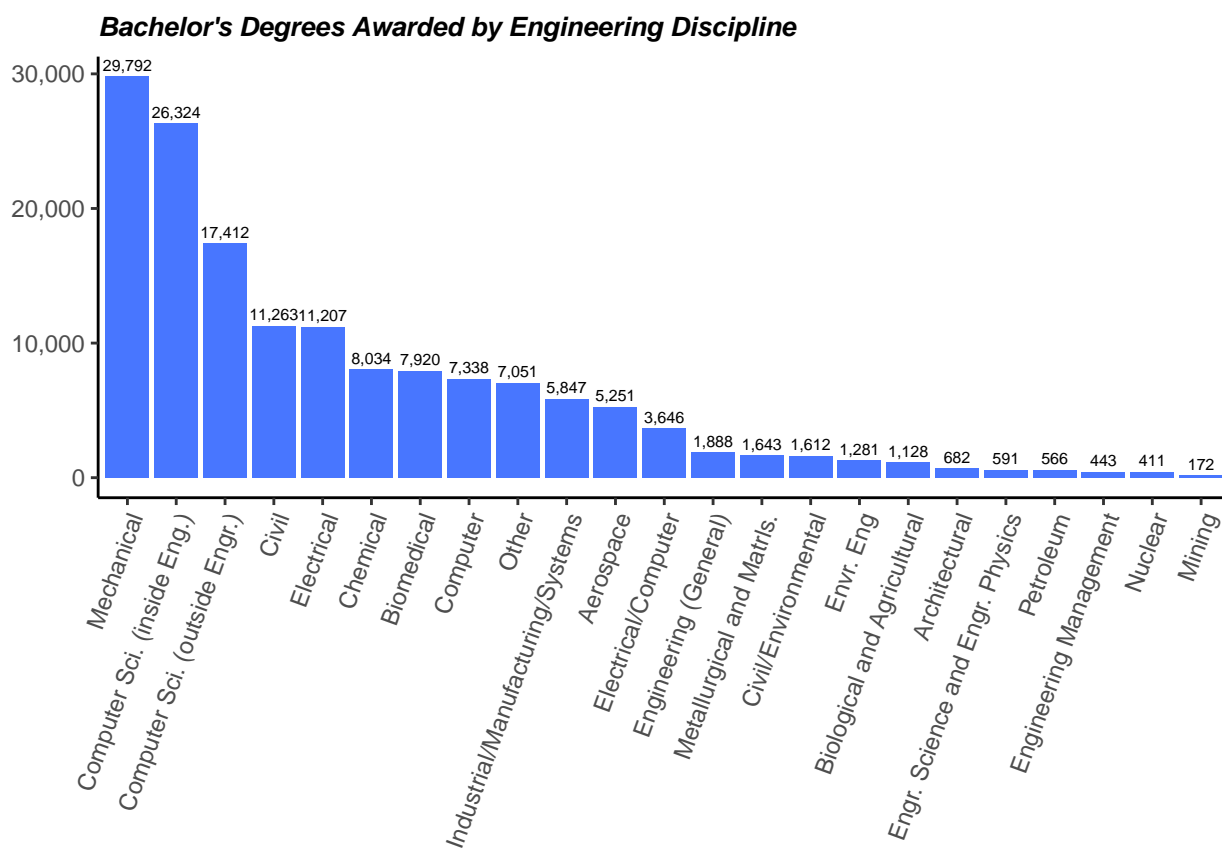
## 1.1 ENGINEERING BACHELOR'S DEGREES

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

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

| 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             |

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



### 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

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

| Discipline Name                  | Degrees Awarded |
|----------------------------------|-----------------|
| Civil                            | 23.1%           |
| Petroleum                        | 21.4%           |
| Electrical                       | 20.3%           |
| Civil/Environmental              | 19.7%           |
| Computer                         | 19.2%           |
| 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%           |
| Electrical/Computer              | 15%             |
| Engineering (General)            | 14.8%           |
| Engineering Management           | 13.3%           |
| Computer Sci. (outside Engr.)    | 13.1%           |
| Engr. Science and Engr. Physics  | 12.7%           |
| Biological and Agricultural      | 12%             |
| Mining                           | 7.6%            |

### 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

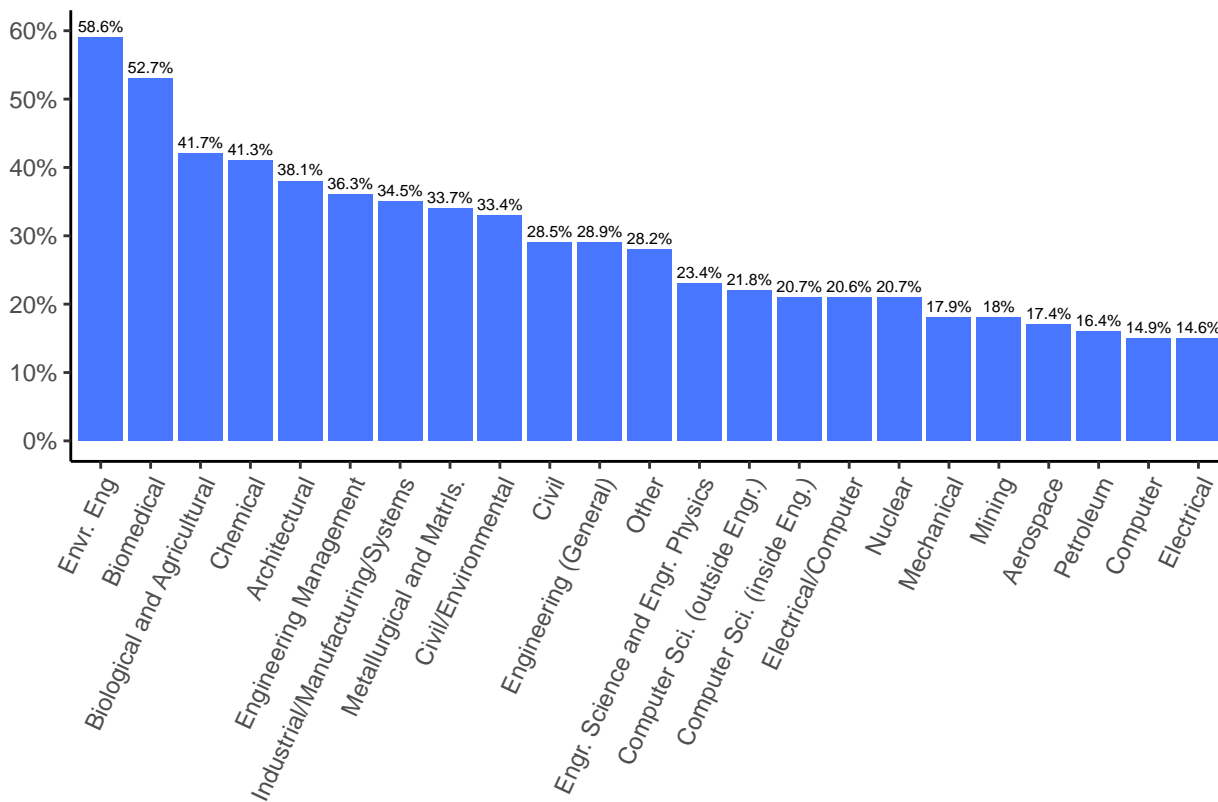
| Discipline Name                  | Percent Women |
|----------------------------------|---------------|
| Envr. Eng                        | 58.6%         |
| Biomedical                       | 52.7%         |
| Biological and Agricultural      | 41.7%         |
| Chemical                         | 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%         |



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

| 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%         |

**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 Highest 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             |

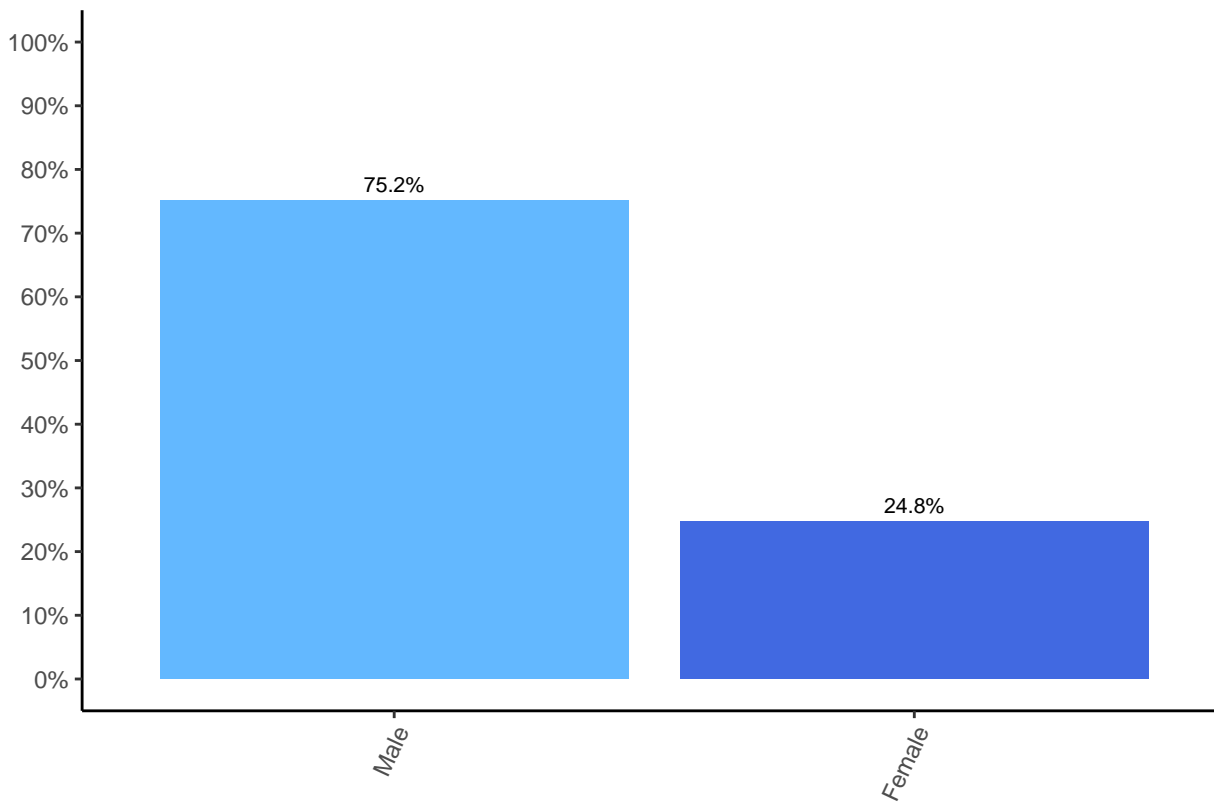
\* 363 Institutions included

### 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% | 18.40% | 18.90% | 19.10% | 19.90% | 20.90% | 21.30% | 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% |

**Bachelor's Degrees Awarded by Gender**



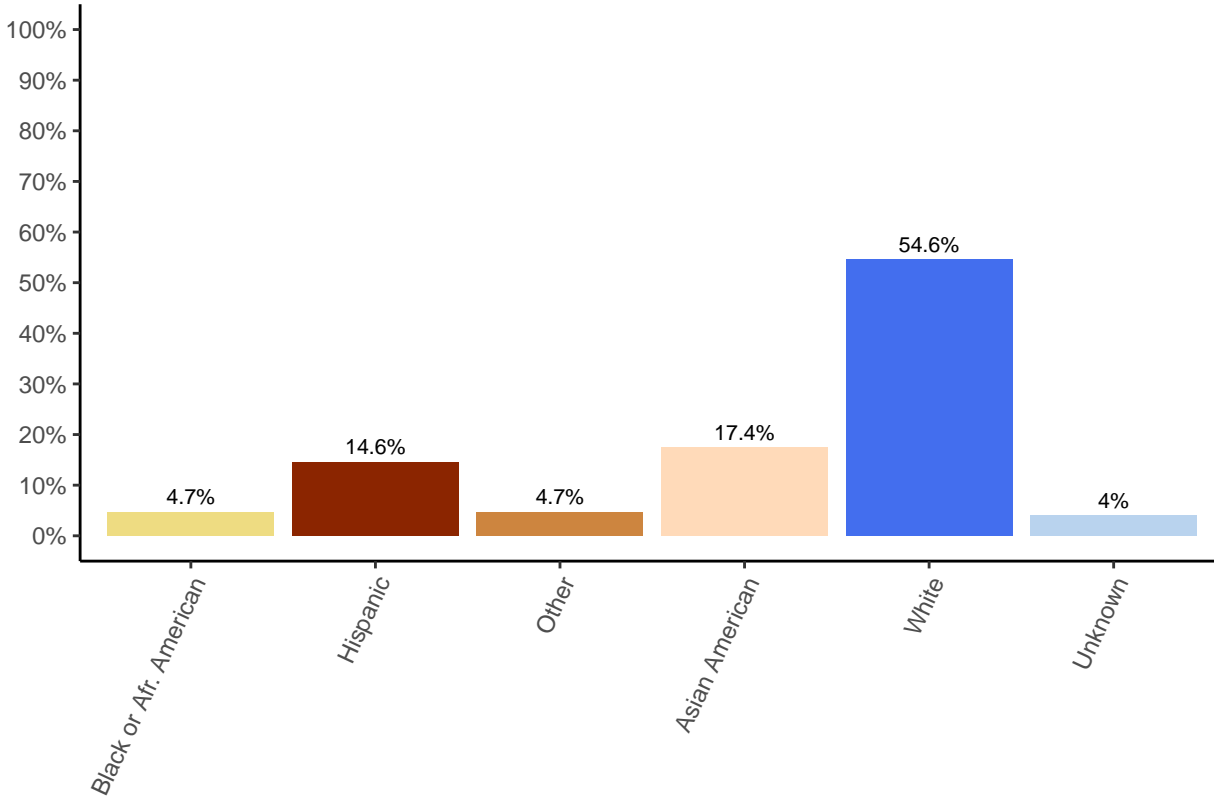
### 1.1.7 Bachelor's Degrees Awarded by Race and Ethnicity

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.

**Bachelor's Degrees Awarded by Race and Ethnicity**

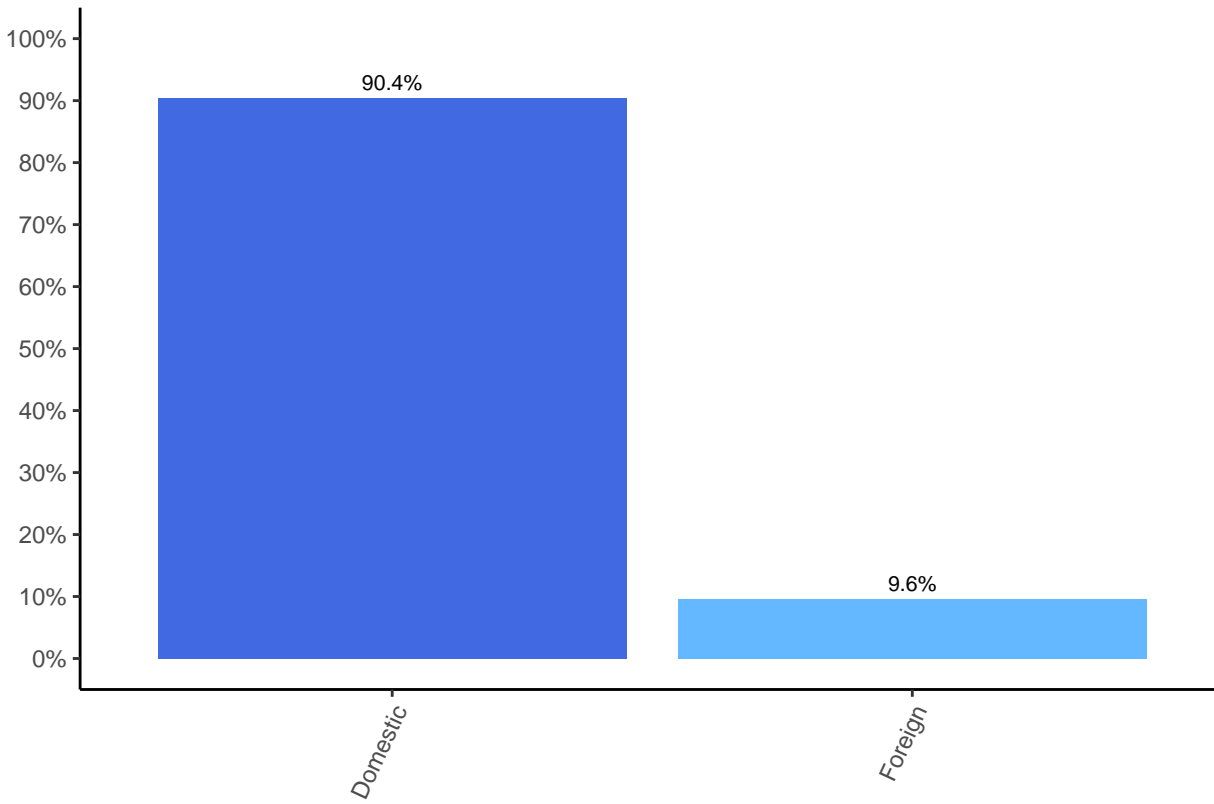


**1.1.8 Bachelor's Degrees Awarded by Residency**

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**



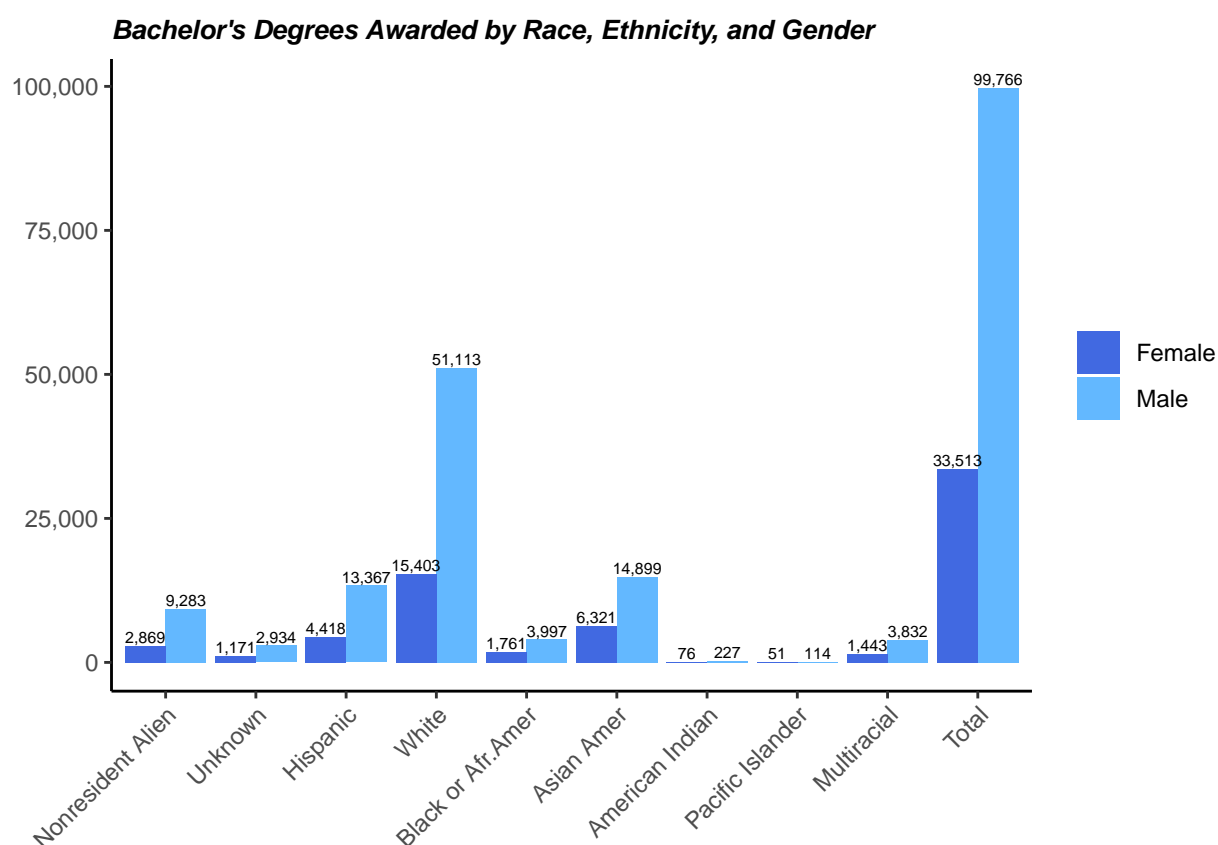
### 1.1.9 Bachelor's Degrees Awarded by Race, Ethnicity and Gender

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

| 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          |

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

\* Includes 459 male and 193 female graduates from Puerto Rico.



### 1.1.10 Top 50 Institutions by Total Bachelor's Degrees awarded to Underrepresented Minorities

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             |

\* 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

| No | Institutions                                       | Percent Underrepresented Minorities |
|----|--|-------------------------------------|
| 1  | Navajo Technical University                        | 100%                                |
| 1  | University of Puerto Rico, Mayaguez Campus         | 100%                                |
| 3  | Southern 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                           | 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%                                 |
| 15 | Florida International University                   | 71.6%                               |
| 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%                               |
| 20 | Texas A&M University - Kingsville                  | 60.2%                               |
| 21 | The University of Texas at San Antonio             | 59.3%                               |
| 22 | New Mexico State University                        | 54.9%                               |
| 23 | University of the District of Columbia             | 54.7%                               |
| 24 | University of California, Merced                   | 54.3%                               |
| 25 | California State University-San Bernardino         | 51.2%                               |
| 26 | California State University-Fresno                 | 47.6%                               |
| 27 | The University of New Mexico                       | 45.7%                               |
| 28 | New Mexico Institute of Mining and Technology      | 45.4%                               |
| 29 | Texas A & M University-Corpus Christi              | 45.4%                               |
| 30 | Texas State University                             | 43.9%                               |
| 31 | California State University-Bakersfield            | 43.5%                               |
| 32 | Florida Atlantic University                        | 41.9%                               |
| 33 | The University of Texas at Tyler                   | 40.3%                               |
| 34 | California State University, Long Beach            | 39.6%                               |
| 35 | Texas A & M University-Commerce                    | 39.5%                               |
| 36 | Vaughn College of Aeronautics and Technology       | 38.9%                               |
| 37 | Capitol Technology University                      | 37.5%                               |
| 38 | Tennessee State University                         | 36.5%                               |
| 39 | University of Nevada, Las Vegas                    | 36.3%                               |
| 40 | California State University, Northridge            | 35.7%                               |
| 41 | Thomas Jefferson University                        | 35.3%                               |
| 42 | Stephen F Austin State University                  | 35%                                 |
| 43 | Texas Tech University                              | 34.6%                               |
| 44 | Andrews University                                 | 34.5%                               |
| 44 | Fairleigh Dickinson University-Metropolitan Campus | 34.5%                               |
| 46 | University of North Texas                          | 34.4%                               |
| 47 | Fort Lewis College                                 | 33.3%                               |
| 48 | University of Central Florida                      | 33.2%                               |
| 49 | The University of Texas at Arlington               | 32.4%                               |
| 50 | Loyola Marymount University                        | 31.5%                               |

\* 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

### 1.1.16 Top 20 Institutions by Total Bachelor's Degrees awarded to Hispanics

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             |

\* 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

| 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             |



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

| No | Institutions | Degrees Awarded |
|----|--------------|-----------------|
|----|--------------|-----------------|

\* 141 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             |
| 3  | The Ohio State University  | 155             |
| 3  | The University of Texas at Austin                                  | 155             |
| 5  | University of California, Berkeley                                 | 149             |
| 6  | Purdue University  | 147             |
| 7  | The Pennsylvania State University                                  | 139             |
| 8  | Yale School of Engineering & Applied Science                       | 130             |
| 9  | North Carolina State University                                    | 129             |
| 10 | Arizona State University   | 124             |
| 10 | Northeastern University  | 124             |
| 12 | Michigan State University  | 123             |
| 12 | University of Cincinnati   | 123             |
| 14 | University of Illinois at Urbana-Champaign                         | 122             |
| 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              |

\* 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              |

\* 208 Institutions included

#### 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 Awarded |
|----|--|-----------------|
| 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                         | 163             |
| 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  | 126             |
| 11 | University of Arizona  | 126             |
| 13 | University of Florida  | 125             |
| 14 | University of Central Florida                                      | 120             |
| 15 | North Carolina State University                                    | 117             |
| 16 | San Jose State University  | 108             |
| 17 | Iowa State University  | 102             |
| 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  | 86              |
| 22 | Princeton University   | 76              |
| 23 | University of Pittsburgh   | 74              |
| 24 | Cornell University   | 73              |
| 25 | University of South Florida  | 71              |
| 25 | University of Southern California                                  | 71              |
| 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  | 62              |
| 34 | Rutgers, The State University of New Jersey, School of Engineering | 61              |

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           | 287             |
| 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  | 266             |
| 19 | Michigan Technological University                                  | 263             |
| 20 | University of Colorado Boulder                                     | 262             |
| 21 | 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              |
| 24 | Drexel University  | 79              |
| 25 | University of Pittsburgh                                 | 76              |
| 26 | University of Massachusetts Amherst                      | 75              |
| 27 | San Diego State University                               | 74              |
| 28 | Florida Gulf Coast University                            | 72              |
| 29 | Rochester Institute of Technology                        | 67              |
| 30 | University of Cincinnati                                 | 65              |
| 30 | University of Puerto Rico, Mayaguez Campus               | 65              |
| 32 | Rensselaer Polytechnic Institute                         | 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 | Clemson University                                       | 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              |

\* 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             |

\* 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 awarded in 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               |

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

| No | Institutions | Degrees Awarded |
|----|--------------|-----------------|
|----|--------------|-----------------|

\* 76 Institutions included

## 1.2 ENGINEERING UNDERGRADUATE ENROLLMENT, FALL 2023

### 1.2.1 Undergraduate Enrollment by Race, Ethnicity, and Gender

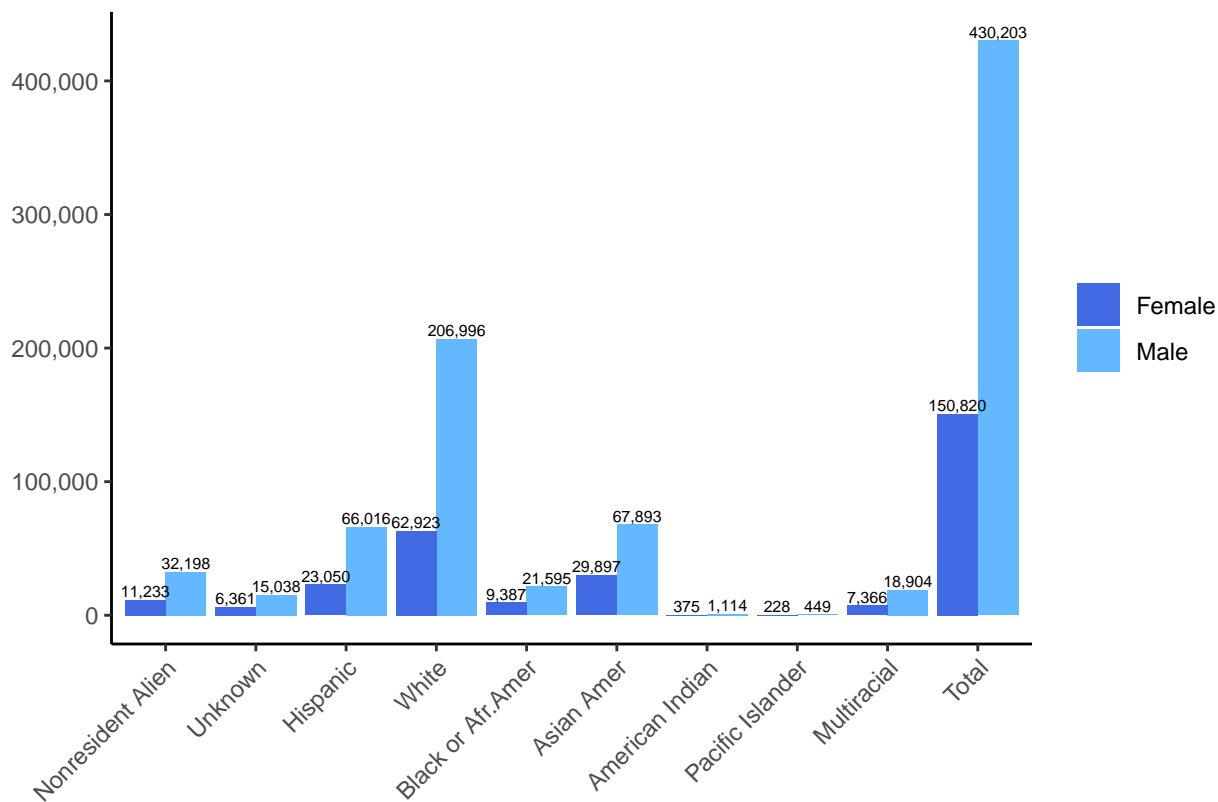
Table 29: Undergraduate Enrollment Awarded by Race, Ethnicity, and Gender 585,931\*

| Ethnicity                                     | Enrollments |
|---|-------------|
| Nonresident Alien Male                        | 32,198      |
| Nonresident Alien Female                      | 11,233      |
| Unknown Male                                  | 15,038      |
| Unknown Female                                | 6,361       |
| Hispanic Male                                 | 66,016      |
| Hispanic Female                               | 23,050      |
| White Male                                    | 206,996     |
| White Female                                  | 62,923      |
| Black or Afr. American Male                   | 21,595      |
| Black or Afr. American Female                 | 9,387       |
| Asian American Male                           | 67,893      |
| Asian American Female                         | 29,897      |
| American Indian Male                          | 1,114       |
| American Indian Female                        | 375         |
| Native Hawaiian/Other Pacific Islander Male   | 449         |
| Native Hawaiian/Other Pacific Islander Female | 228         |
| Multiracial Male                              | 18,904      |
| Multiracial Female                            | 7,366       |
| Total Male                                    | 430,203     |
| Total Female                                  | 150,820     |

\* 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                            | 17,416     |
| 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      |



Table 30: Top 50 Engineering Undergraduate Enrollment by Institutions (*continued*)

| 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   | 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      |
| 34 | University of Illinois at Chicago                                  | 4,864      |
| 35 | University of California-Santa Cruz                                | 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      |
| 39 | University of Cincinnati   | 4,654      |
| 40 | University of Puerto Rico, Mayaguez Campus                         | 4,643      |
| 41 | Texas Tech University  | 4,591      |
| 42 | University of California, Berkeley                                 | 4,547      |
| 43 | California State University, Sacramento                            | 4,338      |
| 44 | San Jose State University  | 4,278      |
| 45 | University of Georgia  | 4,237      |
| 46 | University of Maryland, Baltimore County                           | 4,157      |
| 47 | The University of Texas at El Paso                                 | 4,090      |
| 48 | University of California, Los Angeles                              | 4,018      |
| 49 | University of Tennessee, Knoxville                                 | 3,962      |
| 50 | Rutgers, The State University of New Jersey, School of Engineering | 3,942      |

\* 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.

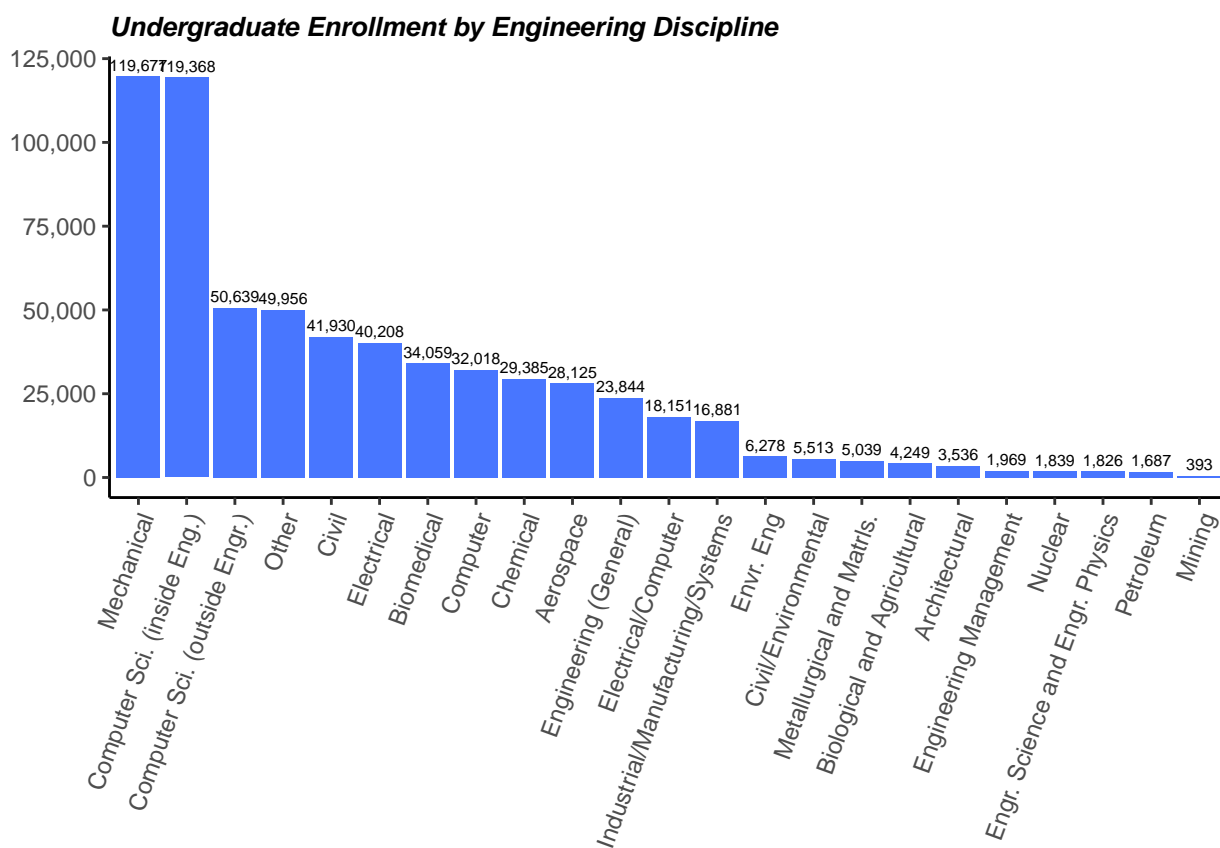
### 1.2.3 Undergraduate Enrollment by Engineering Discipline

Table 31: Undergraduate Enrollment by Engineering Discipline: 585,931

| Discipline Name                  | Enrollments |
|----------------------------------|-------------|
| Mechanical                       | 119,677     |
| Computer Sci. (inside Eng.)      | 119,368     |
| Computer Sci. (outside Engr.)    | 50,639      |
| Other                            | 49,956      |
| Civil                            | 41,930      |
| Electrical                       | 40,208      |
| Biomedical                       | 34,059      |
| Computer                         | 32,018      |
| Chemical                         | 29,385      |
| Aerospace                        | 28,125      |
| Engineering (General)            | 23,844      |
| Electrical/Computer              | 18,151      |
| Industrial/Manufacturing/Systems | 16,881      |
| Envr. Eng                        | 6,278       |
| Civil/Environmental              | 5,513       |
| Metallurgical and Matrls.        | 5,039       |
| 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         |

\* Total does not include Computer Science (outside engineering)

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



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

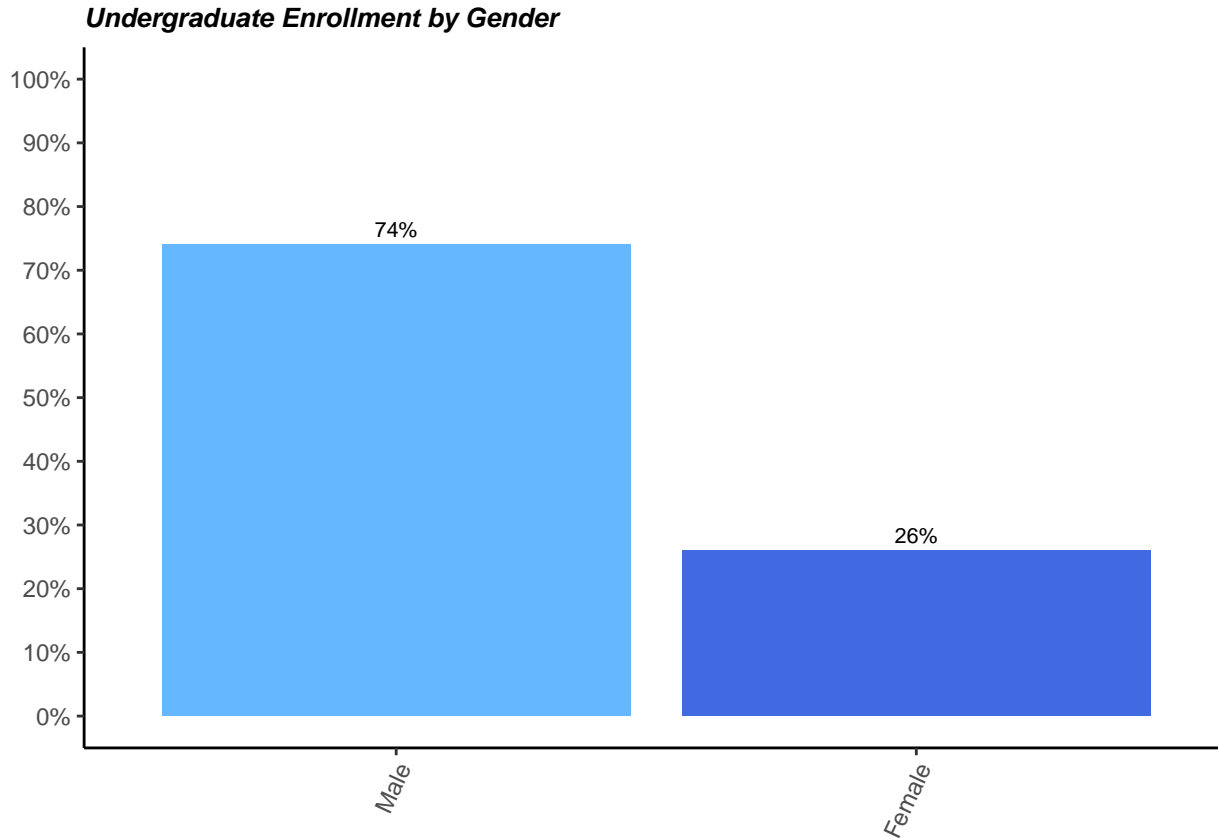
Table 32: Undergraduate Enrollment by Engineering Discipline:(Full time and Part time)

| Discipline Name                  | Full Time | Part Time |
|----------------------------------|-----------|-----------|
| Aerospace                        | 28,125    | 1,787     |
| Architectural                    | 3,536     | 169       |
| Biological and Agricultural      | 4,249     | 175       |
| Biomedical                       | 34,059    | 1,322     |
| Chemical                         | 29,385    | 1,868     |
| Civil                            | 41,930    | 4,072     |
| Civil/Environmental              | 5,513     | 390       |
| Computer                         | 32,018    | 3,065     |
| Computer Sci. (inside Eng.)      | 119,368   | 17,183    |
| Electrical                       | 40,208    | 7,288     |
| Electrical/Computer              | 18,151    | 1,161     |
| Engineering (General)            | 23,844    | 2,559     |
| Engineering Management           | 1,969     | 100       |
| Engr. Science and Engr. Physics  | 1,826     | 63        |
| Envr. Eng                        | 6,278     | 395       |
| Industrial/Manufacturing/Systems | 16,881    | 1,701     |
| Mechanical                       | 119,677   | 12,791    |
| Metallurgical and Matrls.        | 5,039     | 316       |
| Mining                           | 393       | 20        |
| Nuclear                          | 1,839     | 114       |
| Other                            | 49,956    | 4,014     |
| Petroleum                        | 1,687     | 180       |

### 1.2.5 Undergraduate Enrollment by Gender

Table 33: Undergraduate Enrollment by Gender

| Gender | Percentage |
|--------|------------|
| Female | 24.6%      |
| Male   | 75.4%      |

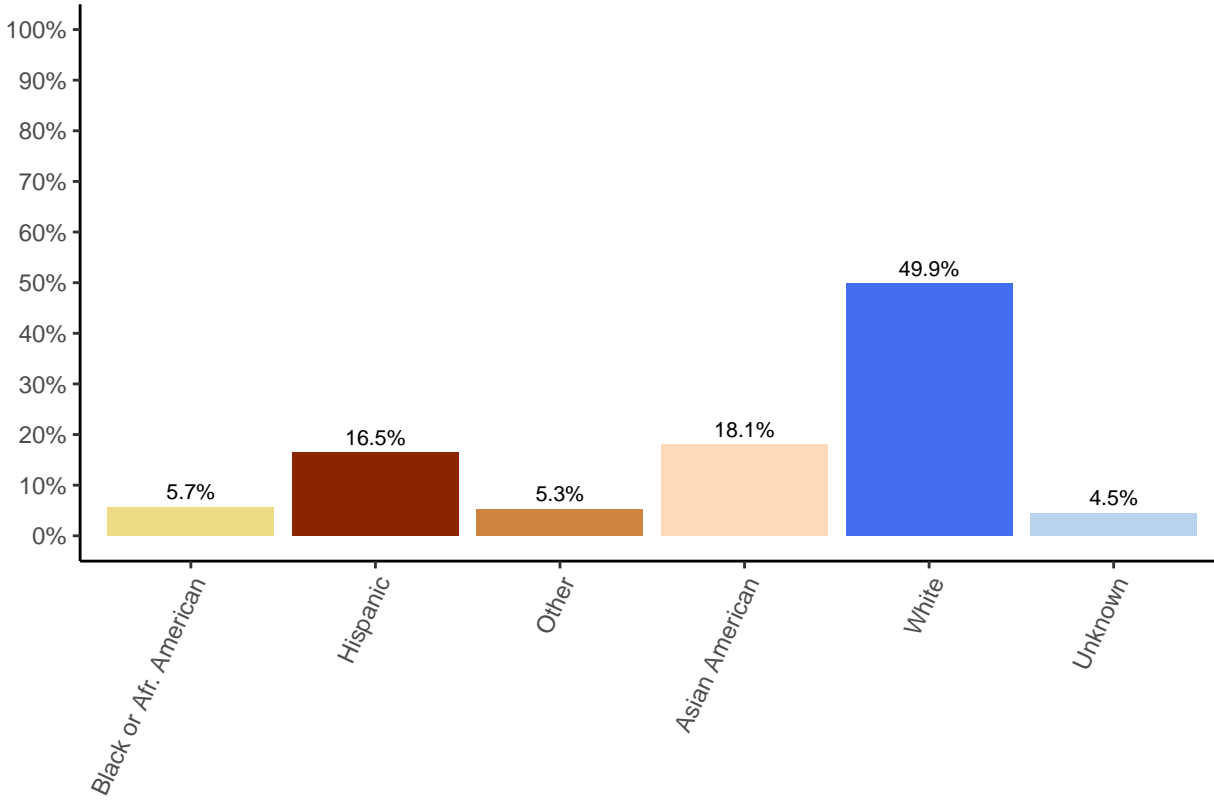


### 1.2.6 Undergraduate Enrollment by Race and Ethnicity

Table 34: Undergraduate Enrollment by Race and Ethnicity\*

| Ethnicity              | Percentage |
|------------------------|------------|
| Black or Afr. American | 5.4%       |
| Hispanic               | 15.8%      |
| Other                  | 5%         |
| Asian American         | 16.1%      |
| White                  | 53.4%      |
| Unknown                | 4.2%       |

**Undergraduate Enrollment by Race and Ethnicity**

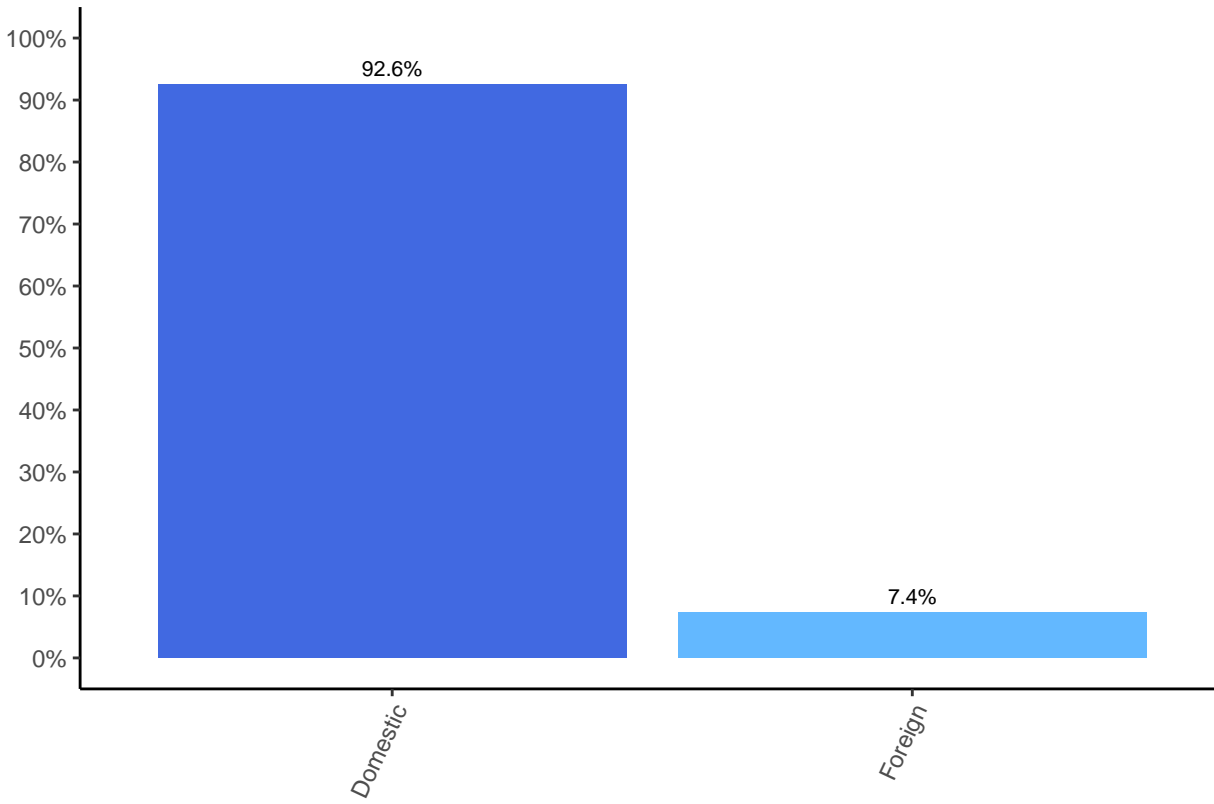


**1.2.7 Undergraduate Enrollment by Residency**

Table 35: Undergraduate Enrollment by Residency

| Nationality | Percentage |
|-------------|------------|
| Domestic    | 92.1%      |
| Foreign     | 7.9%       |

**Undergraduate Enrollment by Residency**



## 2 ENGINEERING MASTER'S

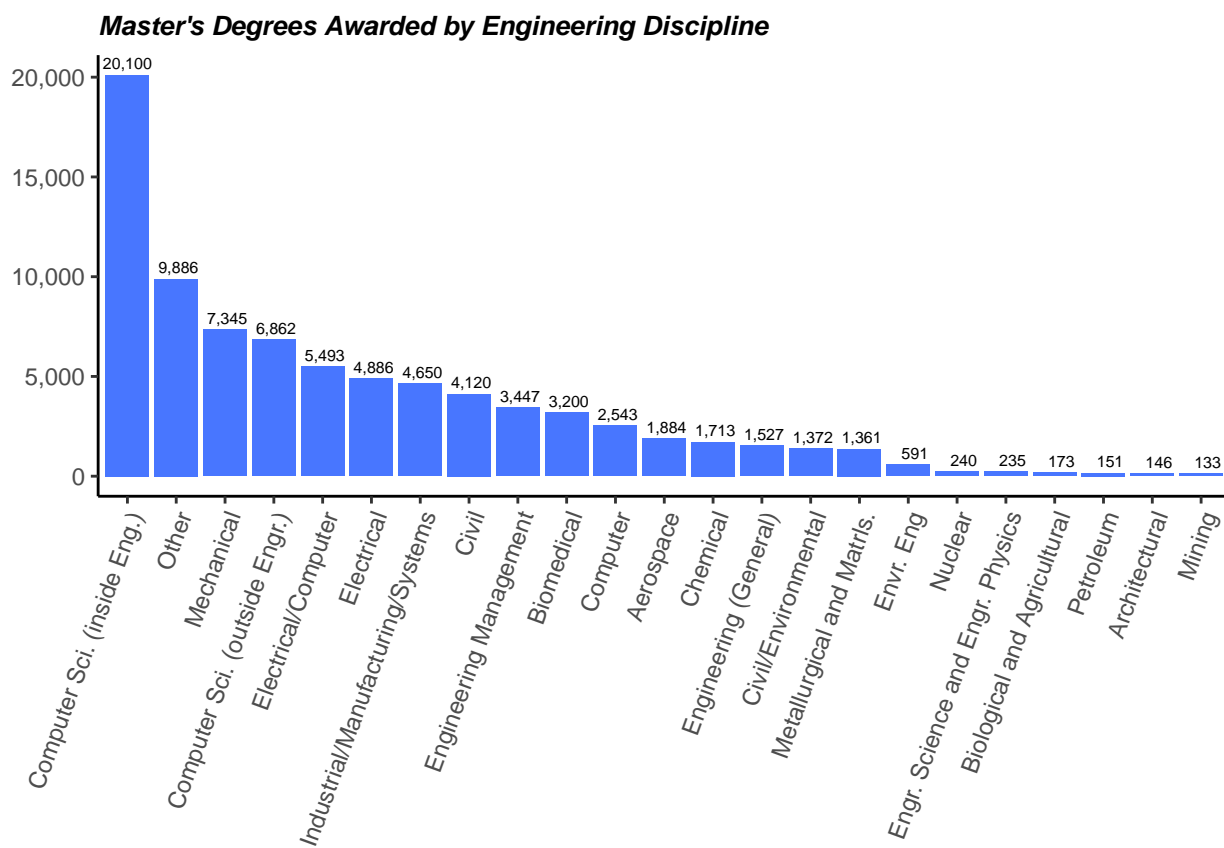
### 2.1 ENGINEERING MASTER'S DEGREE

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

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

| 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             |

\* 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 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

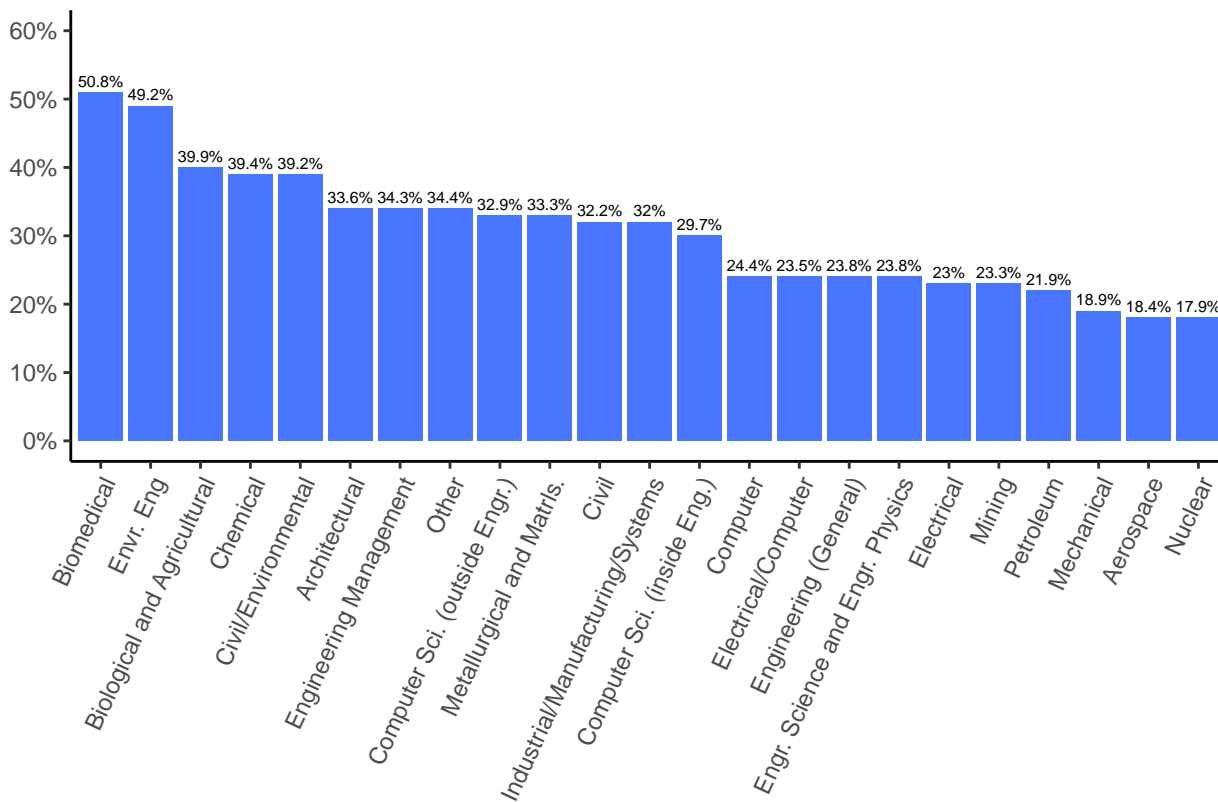
Table 39: Percentage of Master's Degrees Awarded to Women by Discipline 30 % of Total

| 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%         |

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

| 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%         |

**Percentage of Master's Degrees Awarded to Women by Discipline**

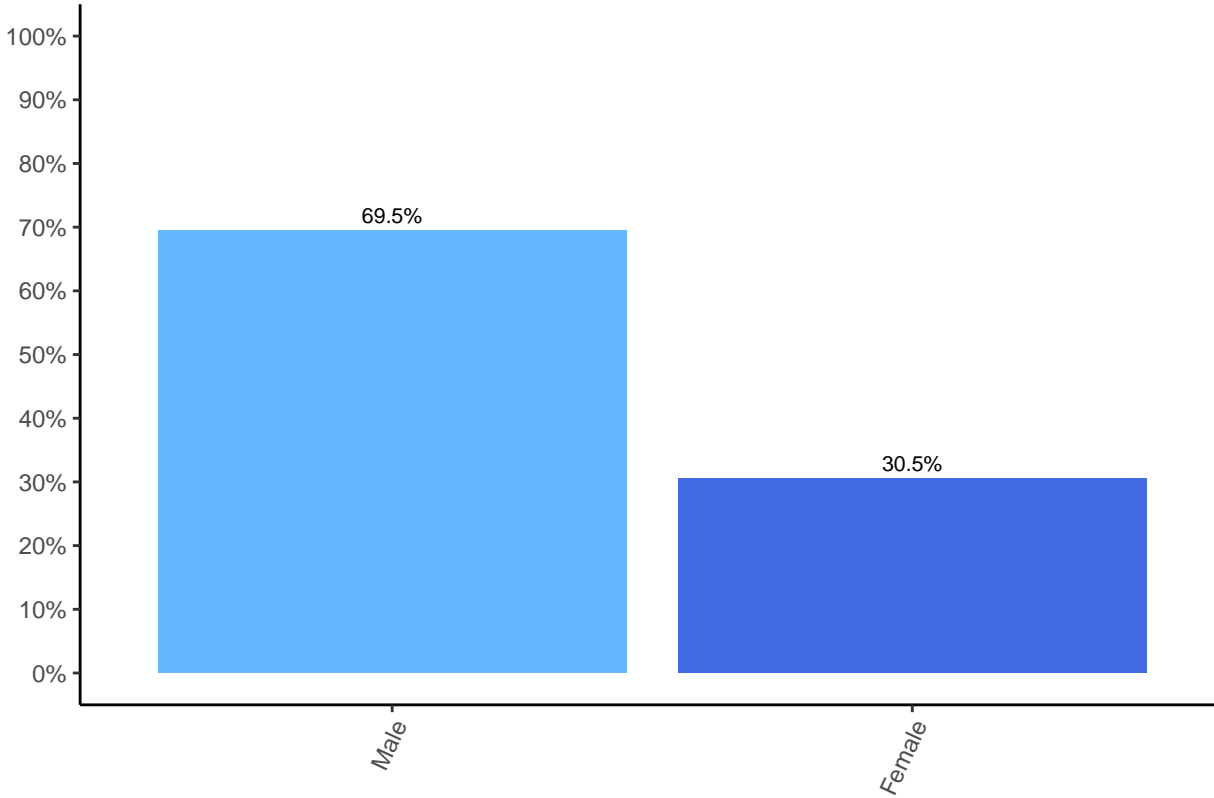


### 2.1.5 Master's Degrees Awarded by Gender

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% | 22.60% | 23.10% | 23.90% | 24.20% | 25.40% | 25.70% | 26.70% | 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% |

**Master's Degrees Awarded by Gender**



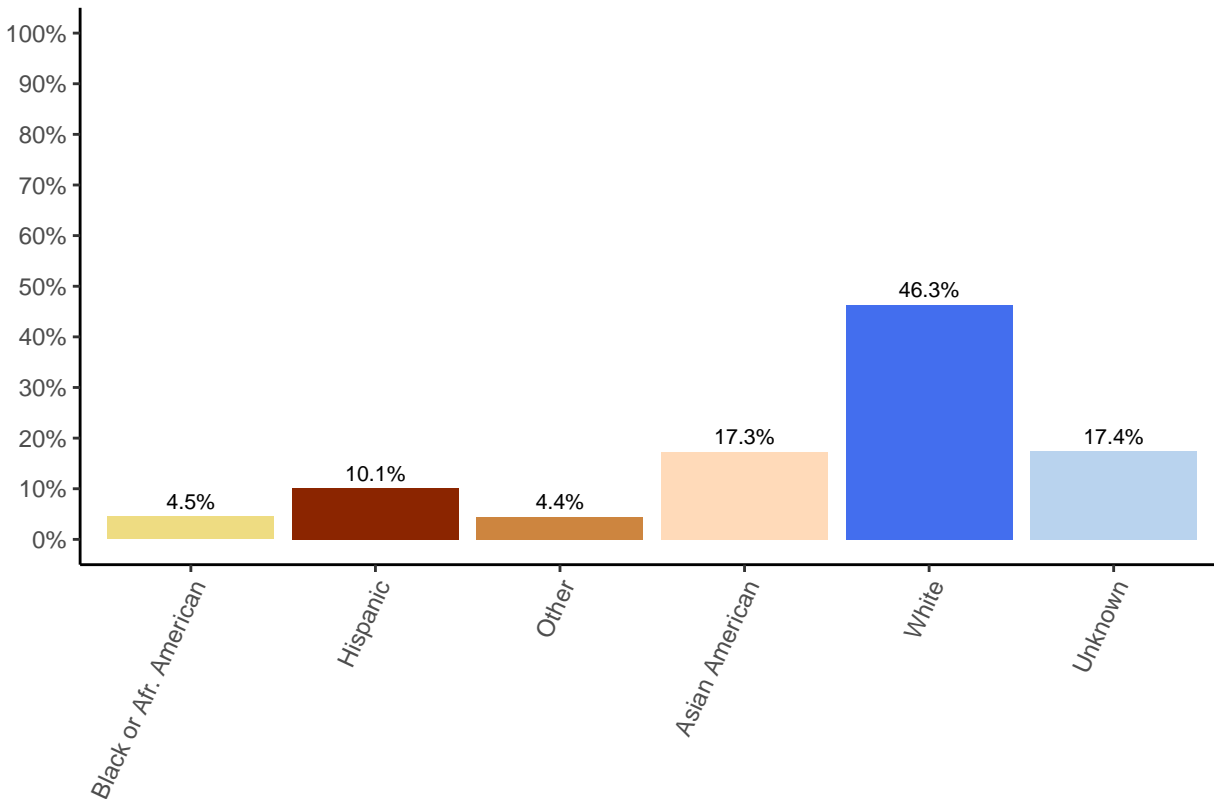
**2.1.6 Master's Degrees Awarded by Race and Ethnicity**

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**



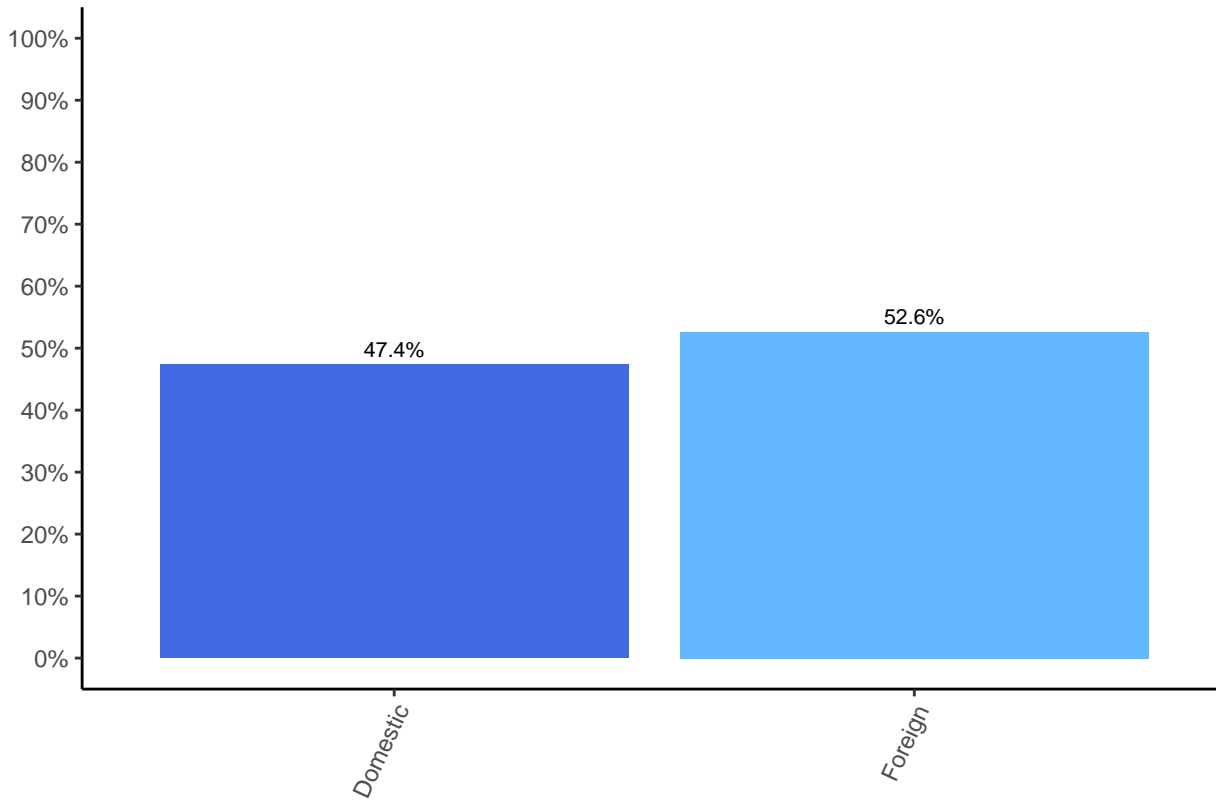
**2.1.7 Master's Degrees Awarded by Residency**

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% |



**Master's Degrees Awarded by Residency**



**2.1.8 Master's Degrees Awarded by Race, Ethnicity, and Gender**

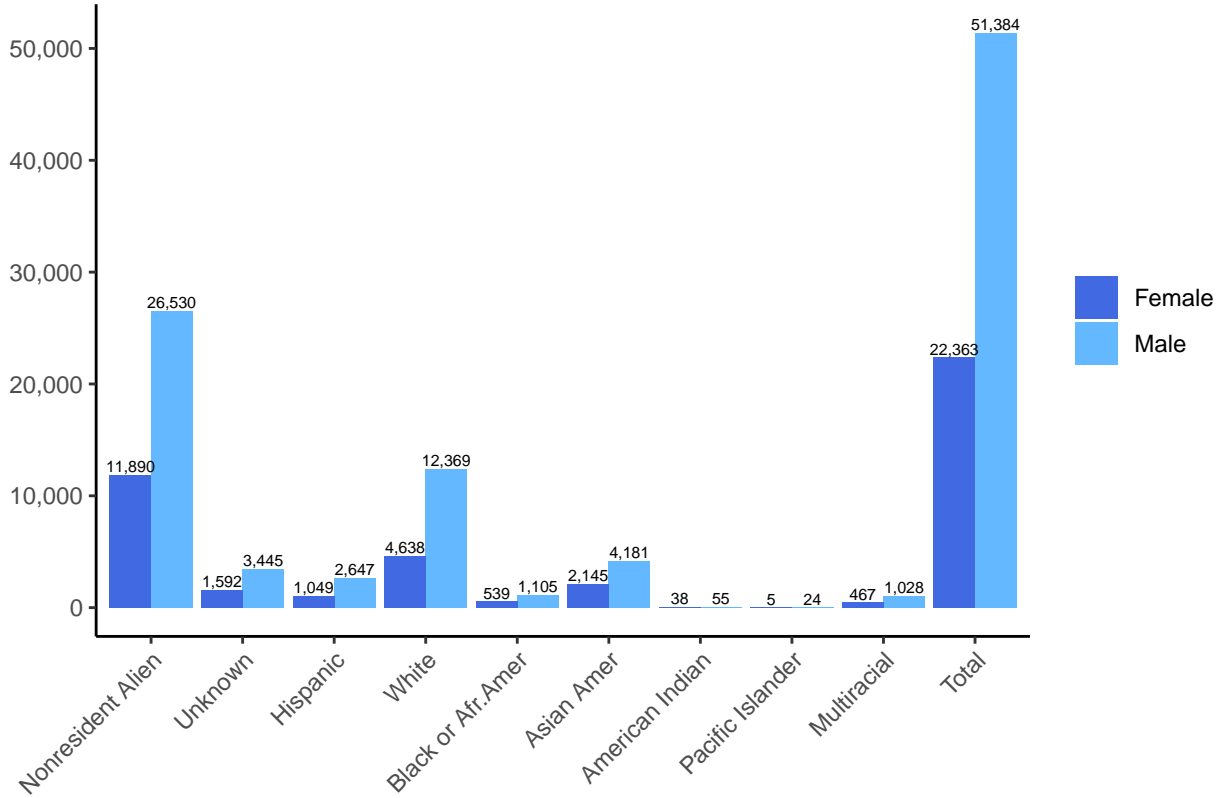
Table 43: Master's Degrees Awarded by Race, Ethnicity, and Gender 75,196\*

| 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          |

\* Total degree includes 18 total Non binary graduates and 1,435 total Other Gender graduates.

\* 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 Degrees

| 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             |

Table 44: Top 50 Institutions Awarding Engineering Master's Degree  
(continued)

| 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 Percentage 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%                               |

\* 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 Awarded |
|----|---|-----------------|
| 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      | 17              |

\* 49 Institutions included

## 2.2 ENGINEERING MASTER'S ENROLLMENT

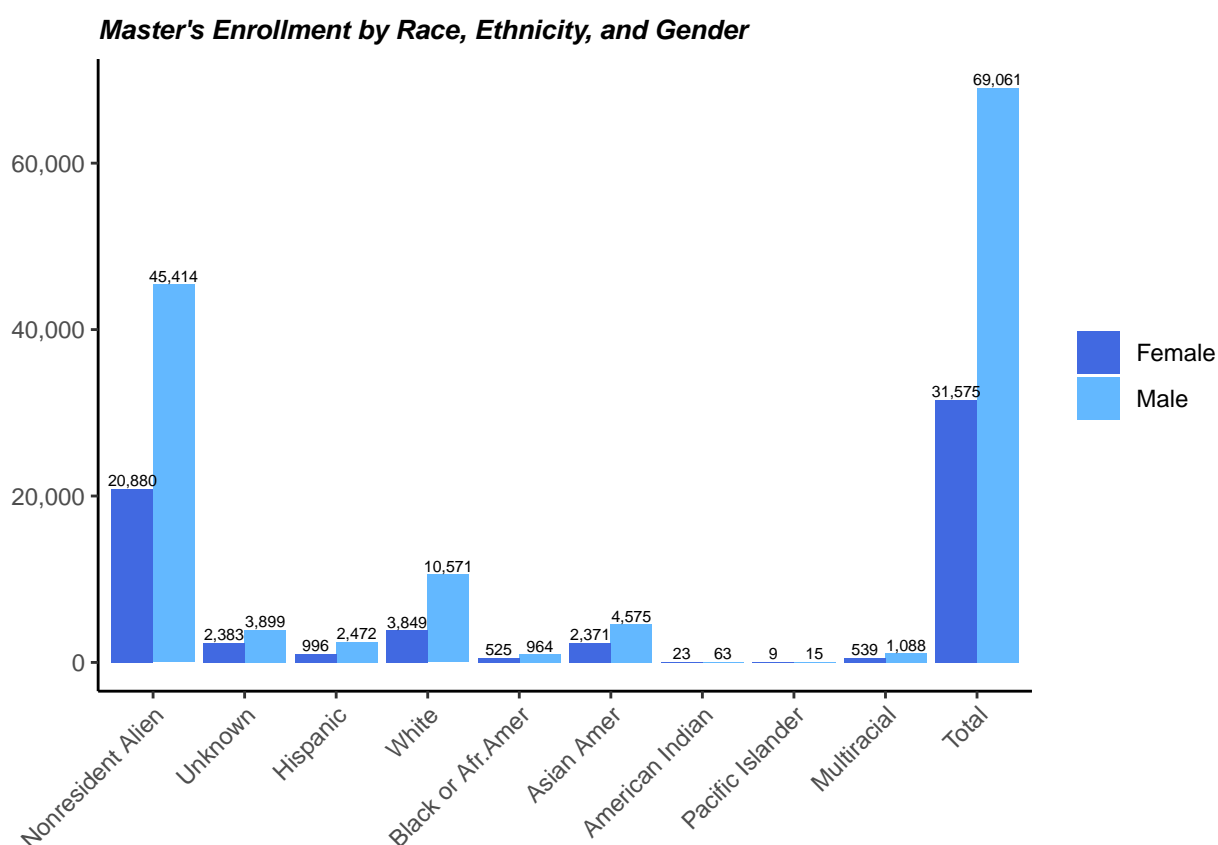
### 2.2.1 Master's Enrollment by Race, Ethnicity, and Gender

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

| 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      |

\* 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\*

| No | Institutions  | Enrollment |
|----|---|------------|
| 1  | University of Southern California   | 6,850      |
| 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  | Columbia University   | 5,011      |
| 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  | 4,088      |
| 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 Enrollment\*  
(continued)

| 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)

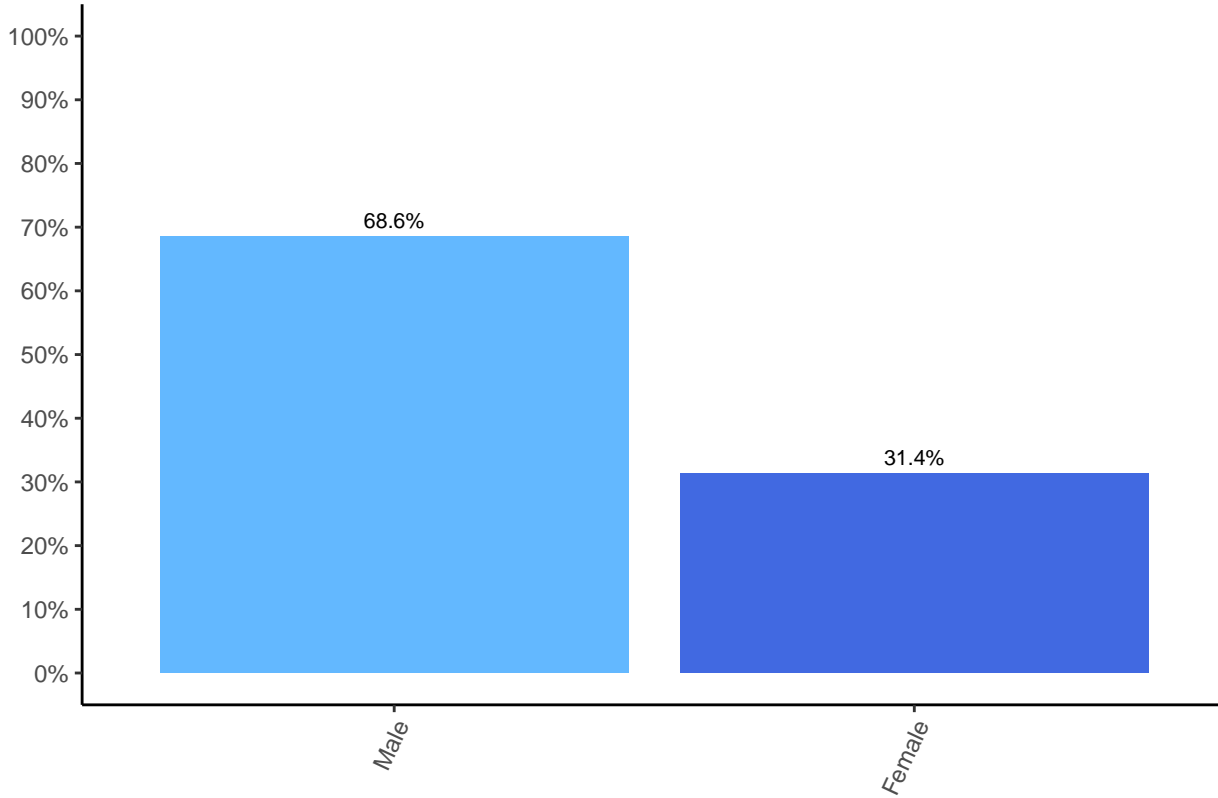
| Discipline Name                         | Full Time | Part Time |
|---|-----------|-----------|
| <b>Aerospace</b>                        | 2,474     | 1,520     |
| <b>Architectural</b>                    | 178       | 10        |
| <b>Biological and Agricultural</b>      | 321       | 62        |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

### 2.2.4 Master's Enrollment by Gender

Table 52: Master's Enrollment by Gender

| Gender | Percentage |
|--------|------------|
| Female | 29.6%      |
| Male   | 70.4%      |

**Master's Enrollment Degrees Awarded by Gender**

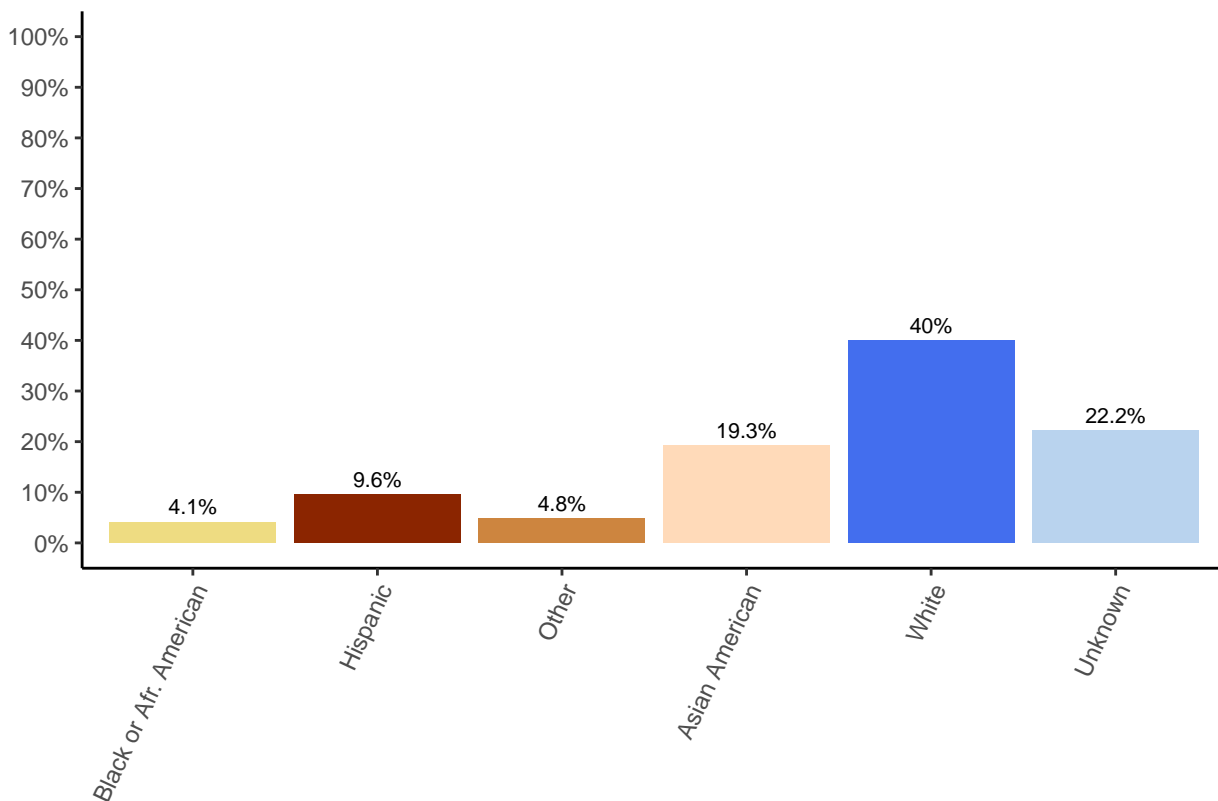


**2.2.5 Master's Enrollment by Race and Ethnicity**

Table 53: Master's Enrollment by Race and Ethnicity\*

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

**Master's Enrollment by Race and Ethnicity**

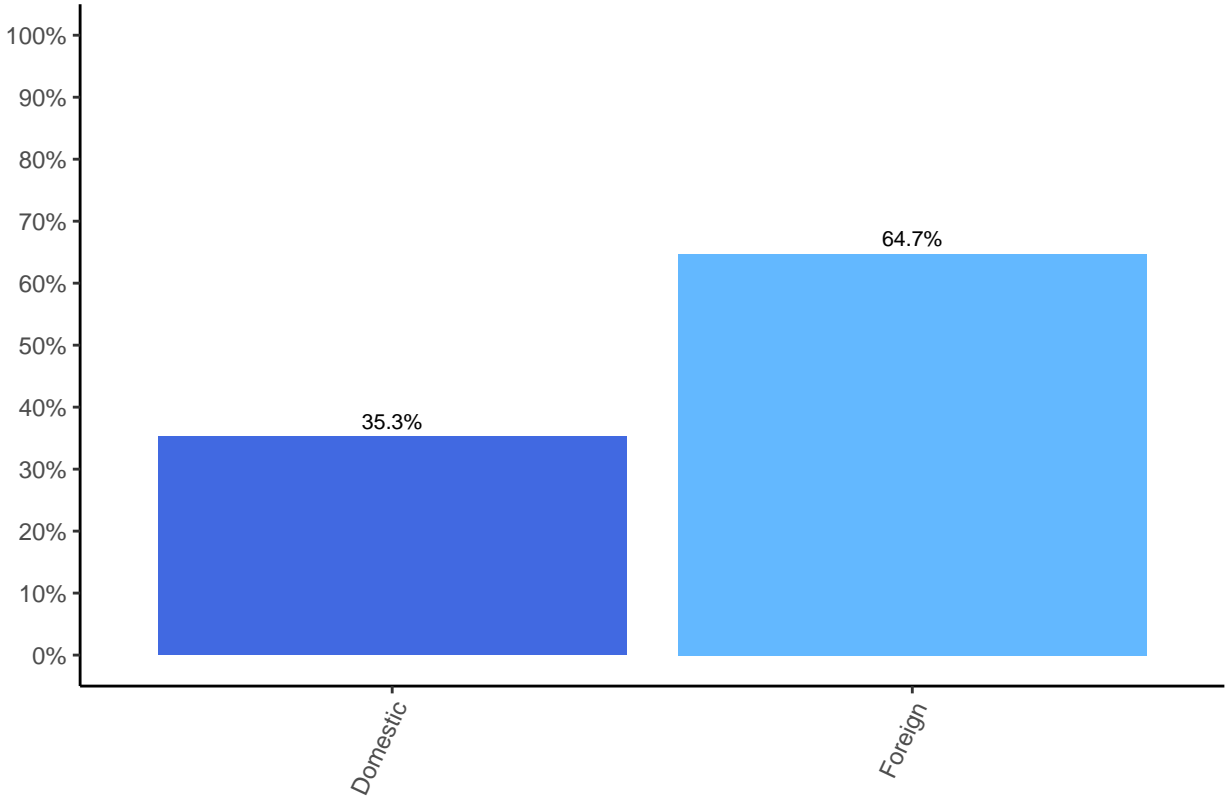


**2.2.6 Master's Enrollment by Residency**

Table 54: Master's Enrollment by Residency

| Nationality | Percentage |
|-------------|------------|
| Foreign     | 59.8%      |
| Domestic    | 40.2%      |

**Master's Enrollment by Residency**





### 3 ENGINEERING DOCTORAL

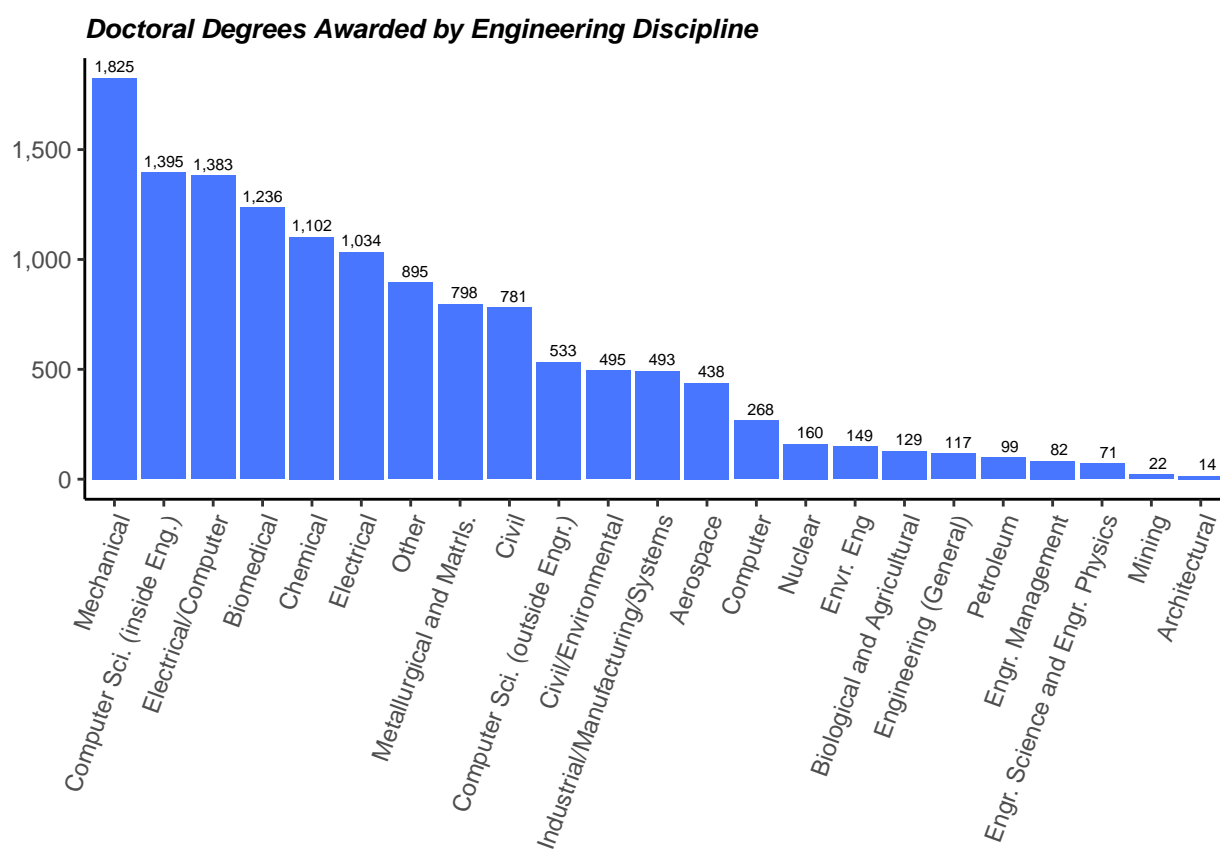
#### 3.1 ENGINEERING DOCTORAL DEGREES

##### 3.1.1 Doctoral Degrees Awarded by Engineering Discipline

Table 55: Doctoral Degrees by discipline: 12,986

| 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              |

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



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

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               |

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

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

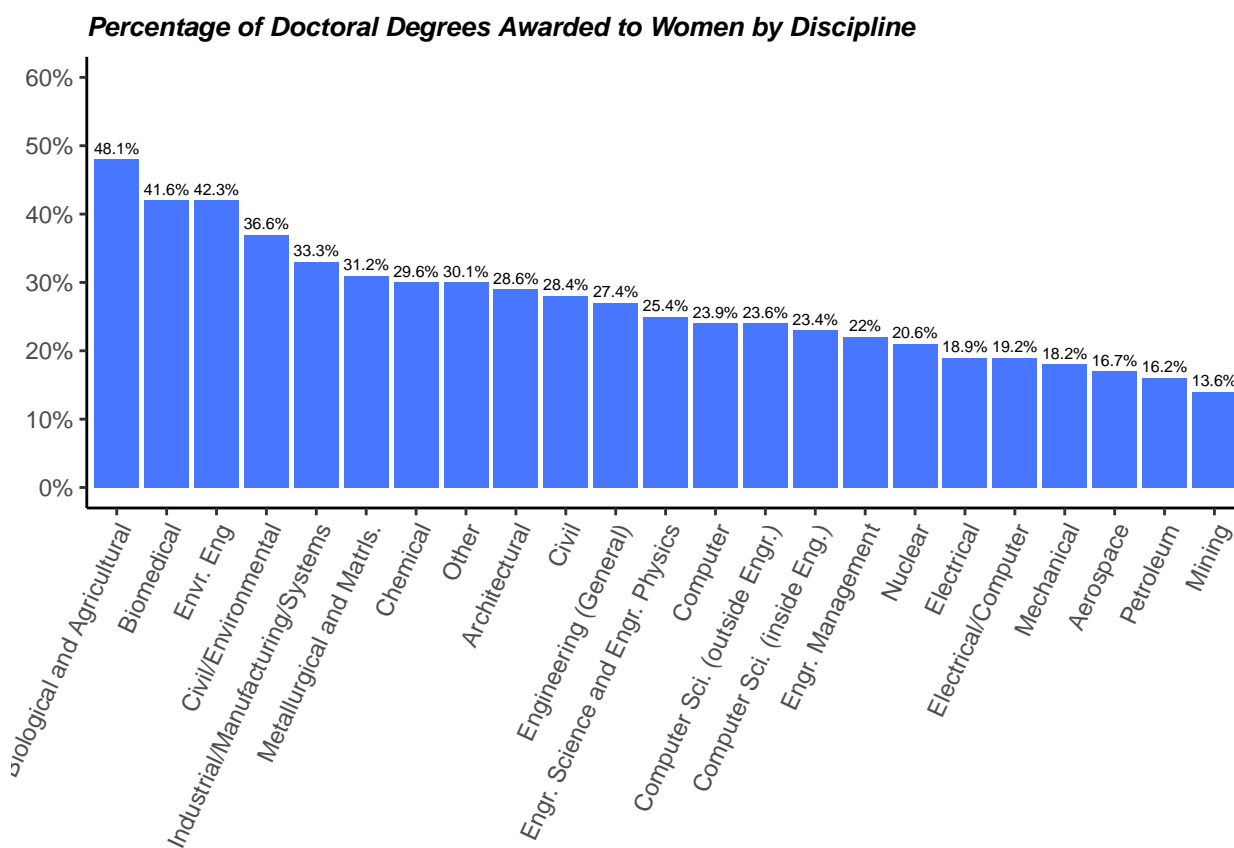
Table 57: Percentage of Doctoral Degrees Awarded to Underrepresented Minorities by Discipline 5.6 % of Total

| 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%         |

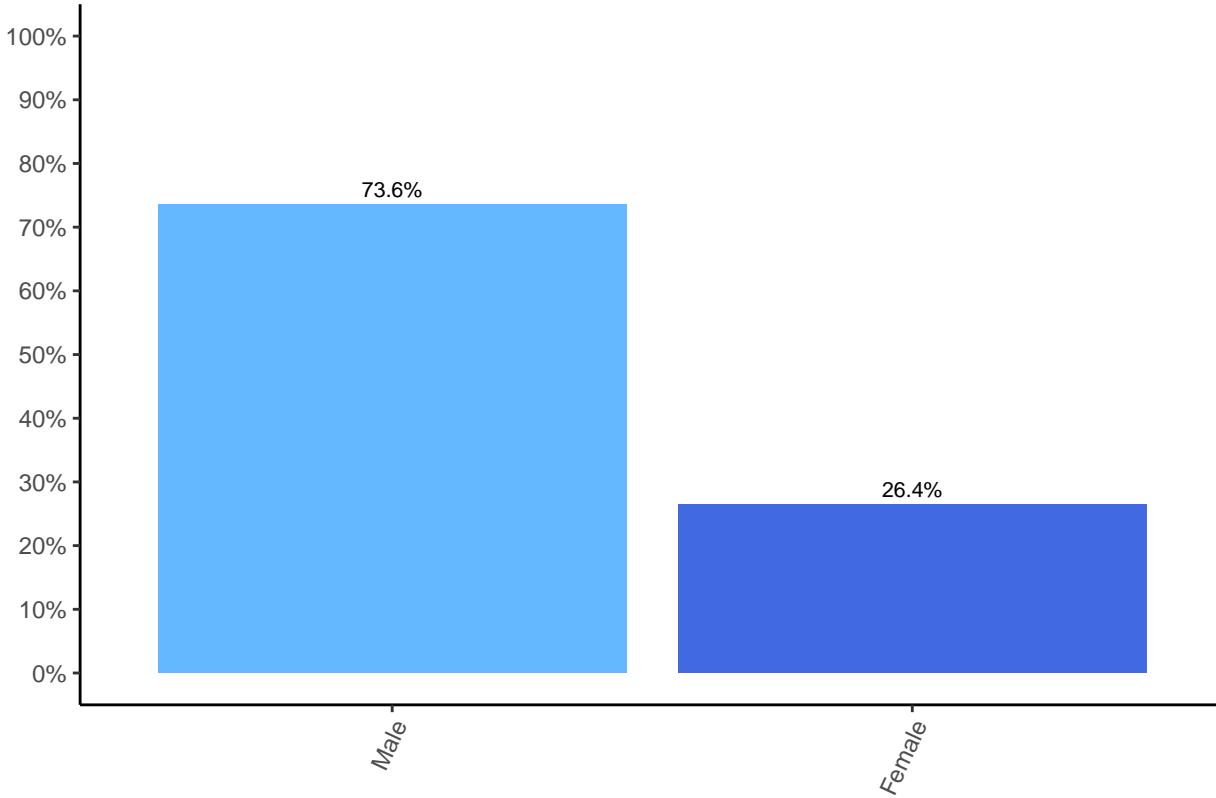


### 3.1.5 Doctoral Degrees Awarded by Gender

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% | 24.30% | 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% | 75.70% | 73.80% |

**Doctoral Degrees Awarded by Gender**

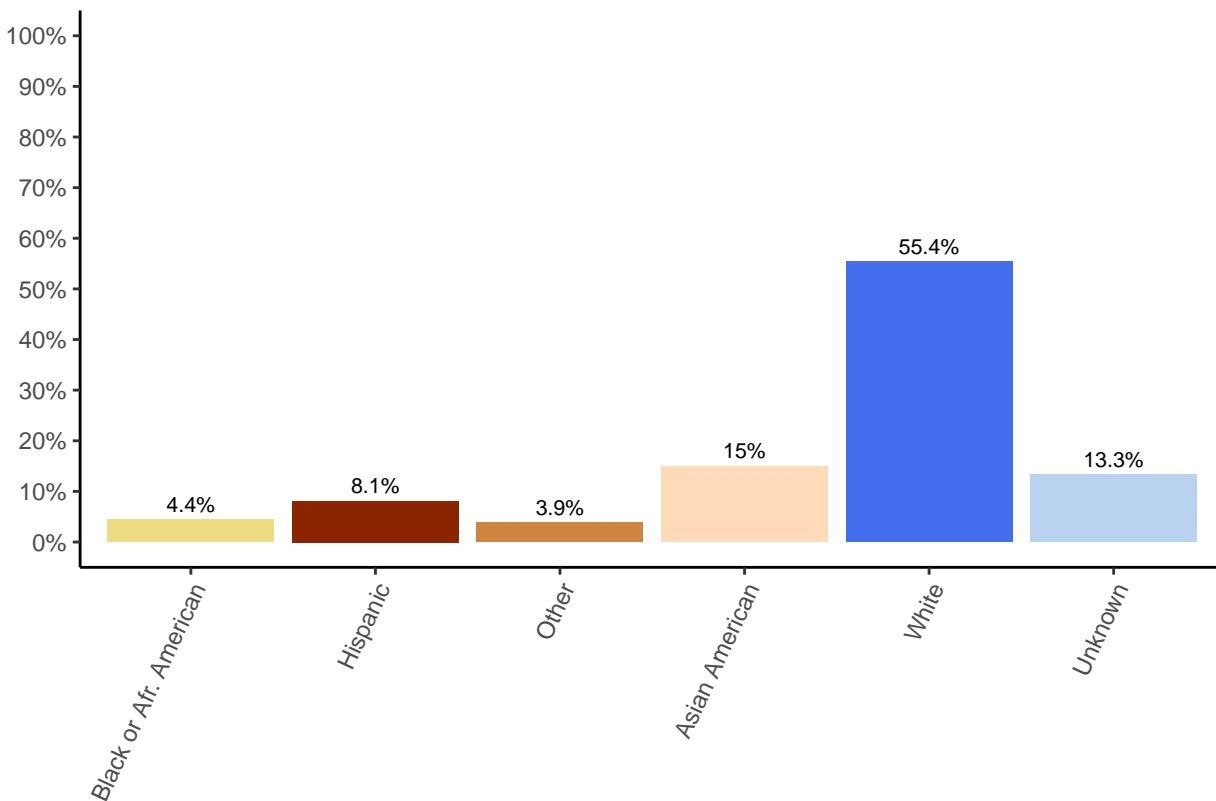


**3.1.6 Doctoral Degrees Awarded by Race and Ethnicity**

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% |

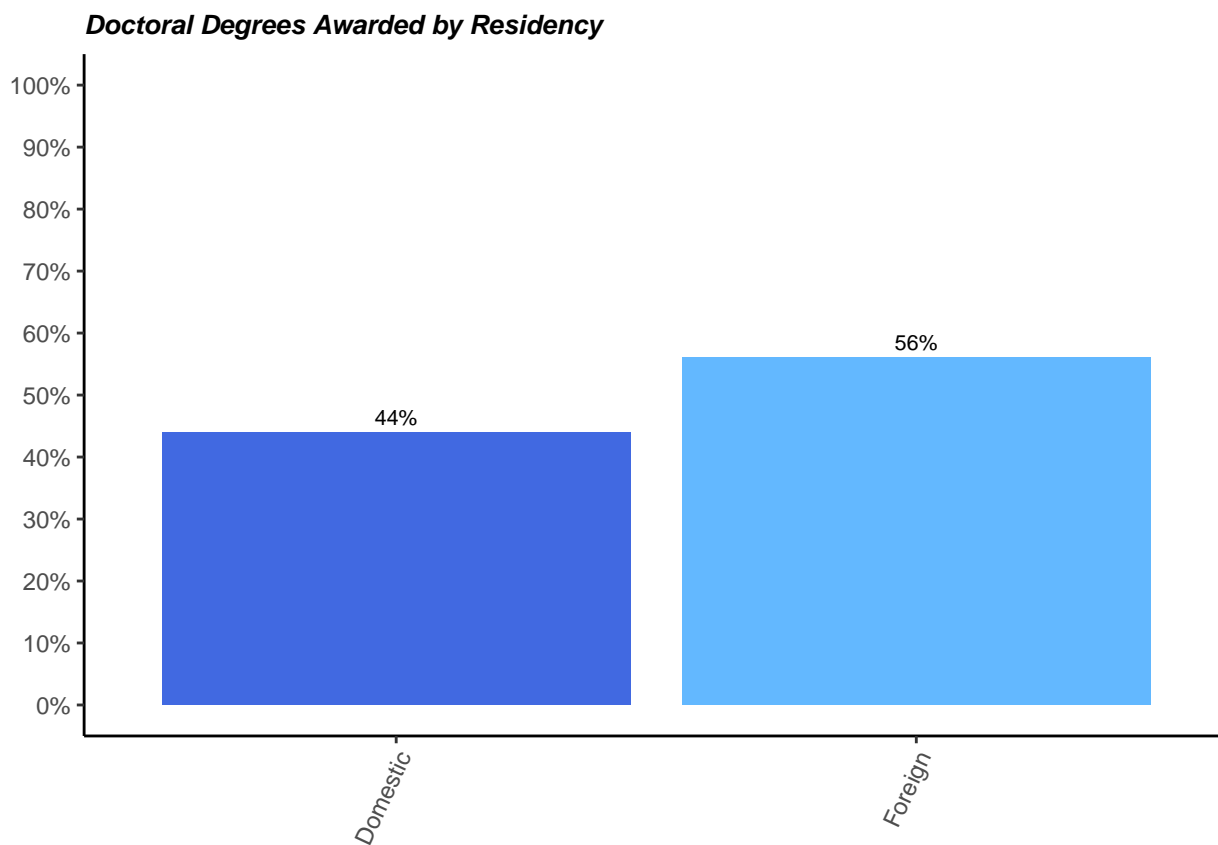
**Doctoral Degrees Awarded by Race and Ethnicity**



### 3.1.7 Doctoral Degrees Awarded by Residency

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

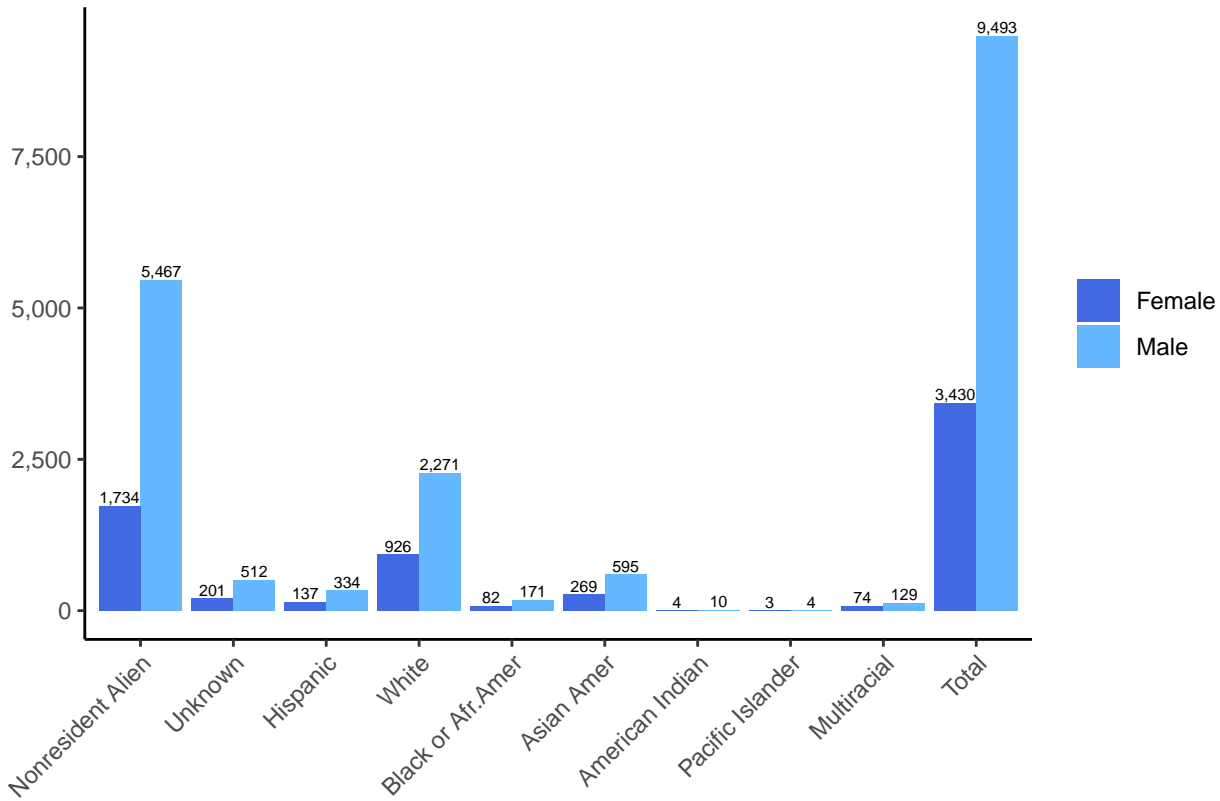
Table 62: Doctoral Degrees Awarded by Race, Ethnicity, and Gender 12,986\*

| 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 and 6 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              |

\* 187 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 Percentage 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%         |

\* 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  | 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 to Foreign 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 Institutions with the Highest Percentage of Doctoral Degrees to Foreign Nationals

Table 68: Highest Percentage of Doctoral Degrees to Foreign Nationals (min 25 awarded)

| No | Institutions                                       | Percentage |
|----|--|------------|
| 1  | Lamar University                                   | 100%       |
| 1  | Prairie View A & M University                      | 100%       |
| 1  | SUNY College of Environmental Science and Forestry | 100%       |
| 4  | Illinois Institute of Technology                   | 97.4%      |
| 5  | University of North Texas                          | 89.3%      |
| 6  | Abilene Christian University                       | 85.7%      |
| 6  | Tennessee Technological University                 | 85.7%      |
| 6  | Texas A&M University - Kingsville                  | 85.7%      |
| 9  | University of Missouri                             | 85%        |
| 10 | University of North Carolina at Charlotte          | 84.2%      |
| 11 | University of Denver                               | 83.3%      |
| 12 | The University of Texas at Dallas                  | 82.1%      |
| 13 | Oklahoma State University                          | 81.8%      |
| 13 | Southern Illinois University Carbondale            | 81.8%      |
| 13 | The State University of New York at Binghamton     | 81.8%      |
| 16 | University of Nevada, Reno                         | 81.6%      |
| 17 | NYU Tandon School of Engineering                   | 80.4%      |
| 18 | Tennessee State University                         | 80%        |
| 18 | The Catholic University of America                 | 80%        |
| 20 | The University of Texas at Arlington               | 79.2%      |
| 21 | University at Buffalo, SUNY                        | 78.8%      |
| 22 | Stony Brook University                             | 77.2%      |
| 23 | Worcester Polytechnic Institute                    | 76%        |
| 24 | University of California, Riverside                | 75.3%      |
| 25 | University of California, Merced                   | 75%        |
| 25 | University of Louisville                           | 75%        |
| 25 | University of Massachusetts-Boston                 | 75%        |

Table 68: Highest Percentage of Doctoral Degrees to Foreign Nationals (min 25 awarded) (*continued*)

| No | Institutions  | Percentage |
|----|---|------------|
| 25 | Villanova University                                    | 75%        |
| 29 | University of Illinois at Chicago                       | 74.2%      |
| 30 | University of Wisconsin, Milwaukee                      | 73.5%      |
| 31 | Kansas State University                                 | 73.3%      |
| 31 | Portland State University                               | 73.3%      |
| 31 | Temple University                                       | 73.3%      |
| 34 | Howard University                                       | 72.7%      |
| 35 | University of Oklahoma, Gallogly College of Engineering | 72.2%      |
| 36 | Marquette University                                    | 72%        |
| 37 | Florida International University                        | 71.9%      |
| 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%      |

\* 187 Institutions included

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

Table 69: 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

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

Table 70: 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               |

Table 70: Top 10 Institutions by Total Doctoral Degrees awarded in Engineering (General) (continued)

| No | Institutions                    | Degrees Awarded |
|----|---------------------------------|-----------------|
| 7  | Wright State University         | 6               |
| 10 | Stevens Institute of Technology | 5               |

\* 17 Institutions included

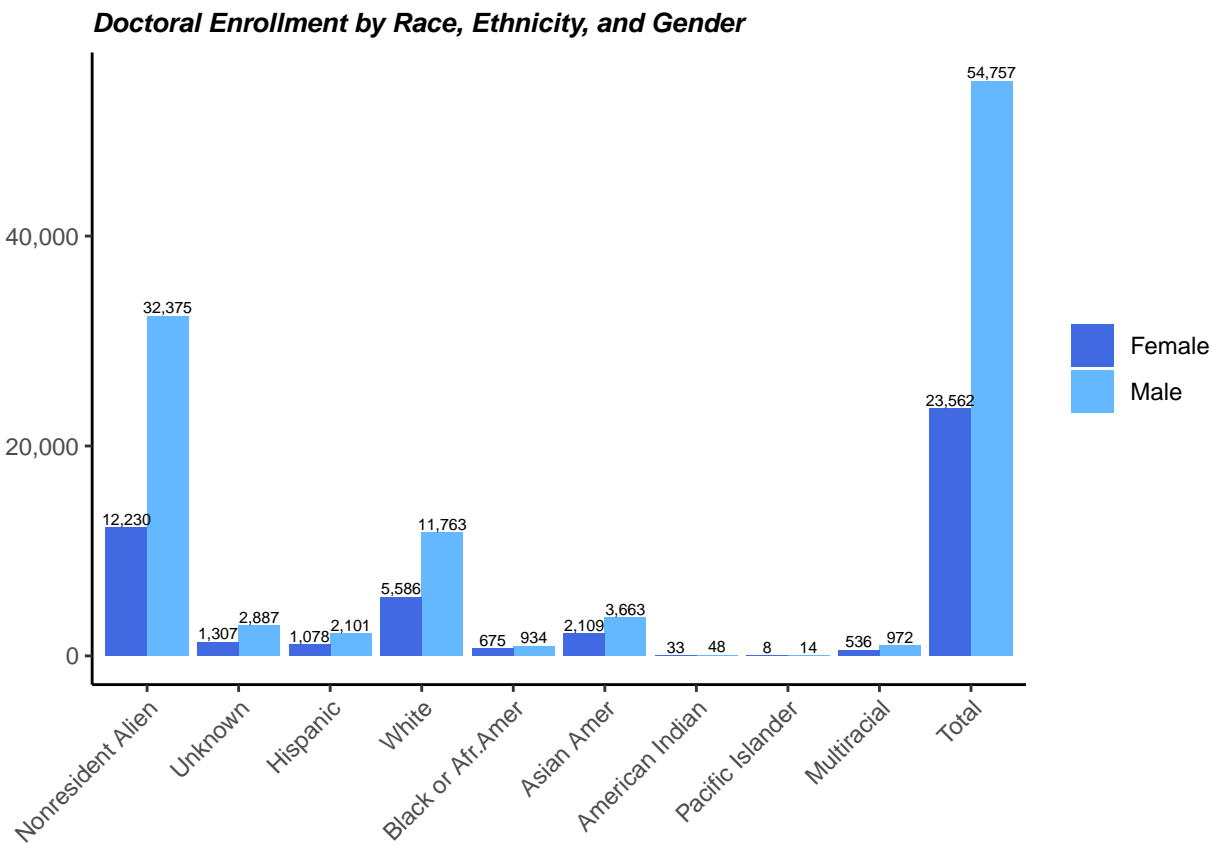
## 3.2 ENGINEERING DOCTORAL ENROLLMENT

### 3.2.1 Doctoral Enrollment by Race, Ethnicity, and Gender

Table 71: Doctoral Enrollment by Race, Ethnicity, and Gender 79,010\*

| 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      |

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



### 3.2.2 Doctoral Enrollment by Engineering Discipline:(Full time and Part time)

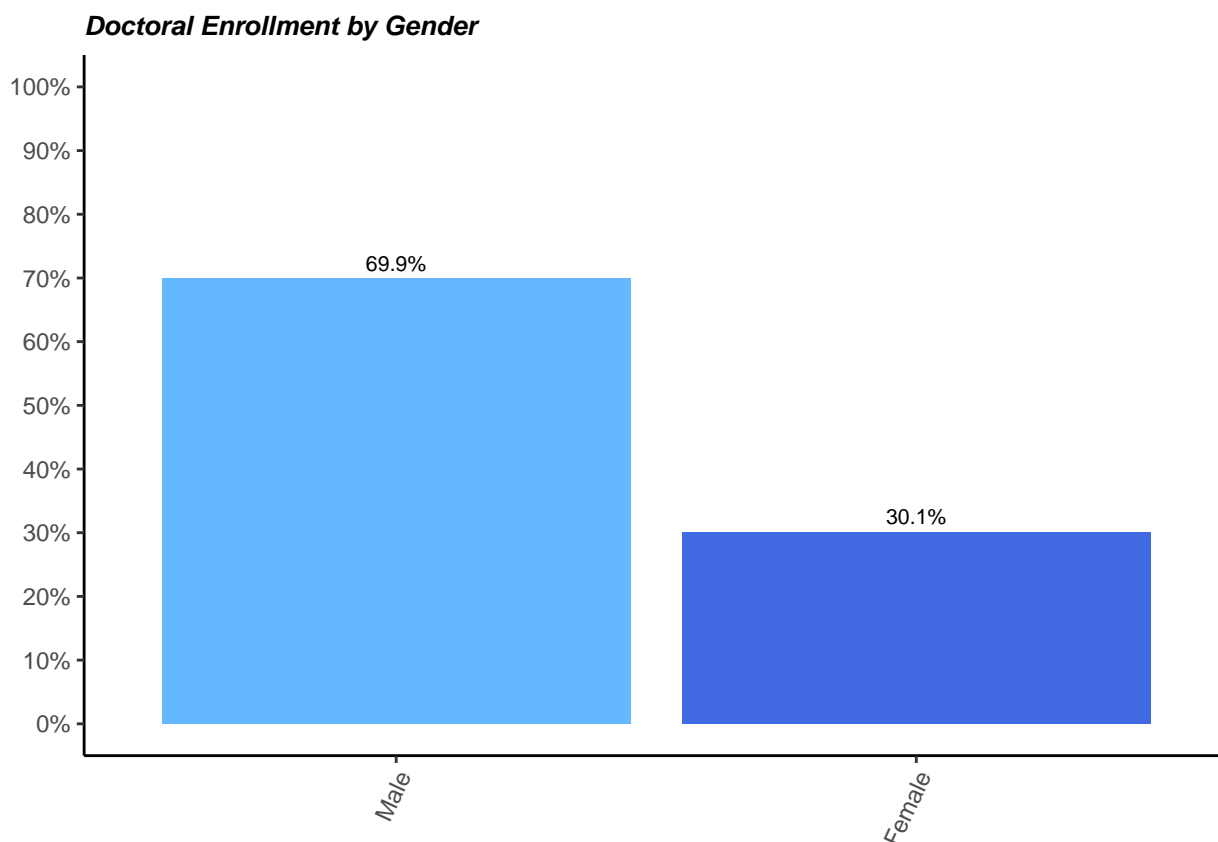
Table 72: Doctoral Enrollment by Engineering Discipline:(Full time and Part time)

| 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        |

### 3.2.3 Doctoral Enrollment by Gender

Table 73: Doctoral Enrollment by Gender

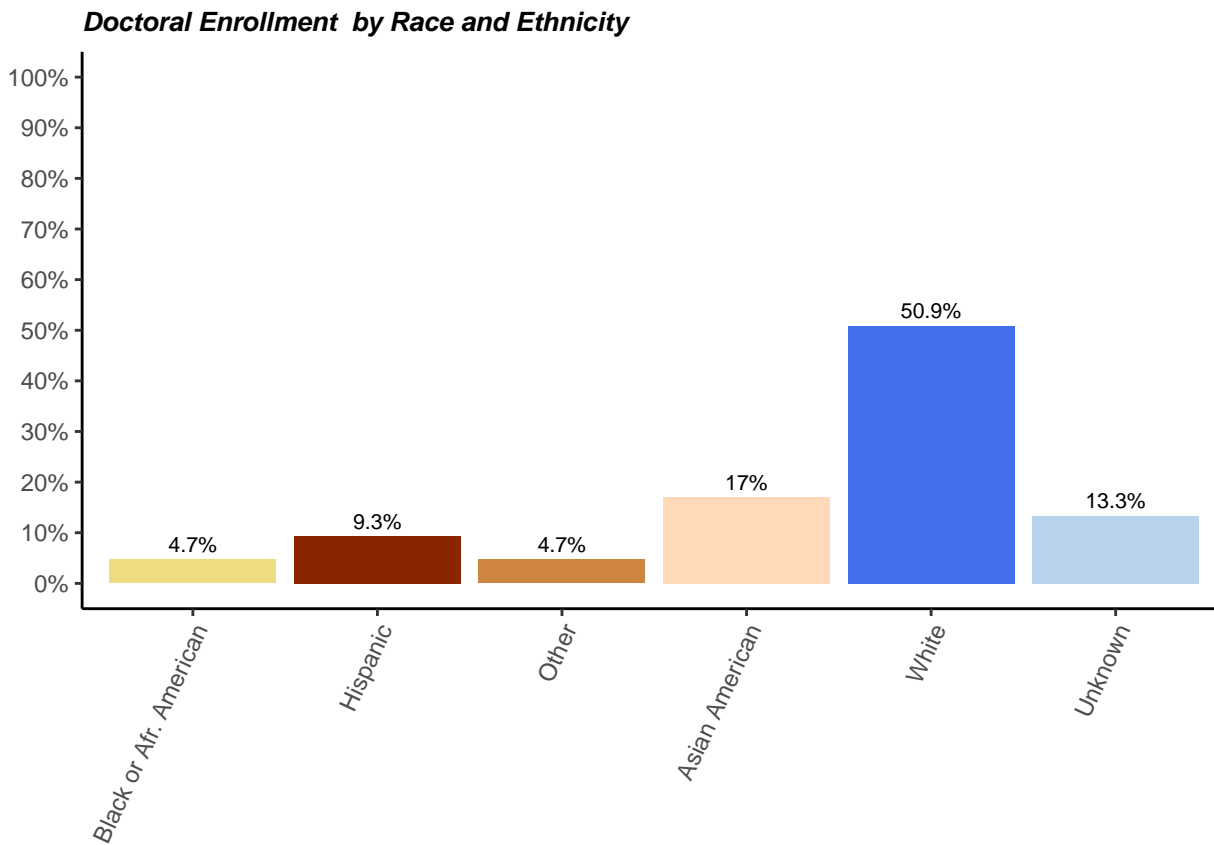
| Gender | Percentage |
|--------|------------|
| Female | 29.4%      |
| Male   | 70.6%      |



### 3.2.4 Doctoral Enrollment by Race and Ethnicity

Table 74: Doctoral Enrollment by Race and Ethnicity\*

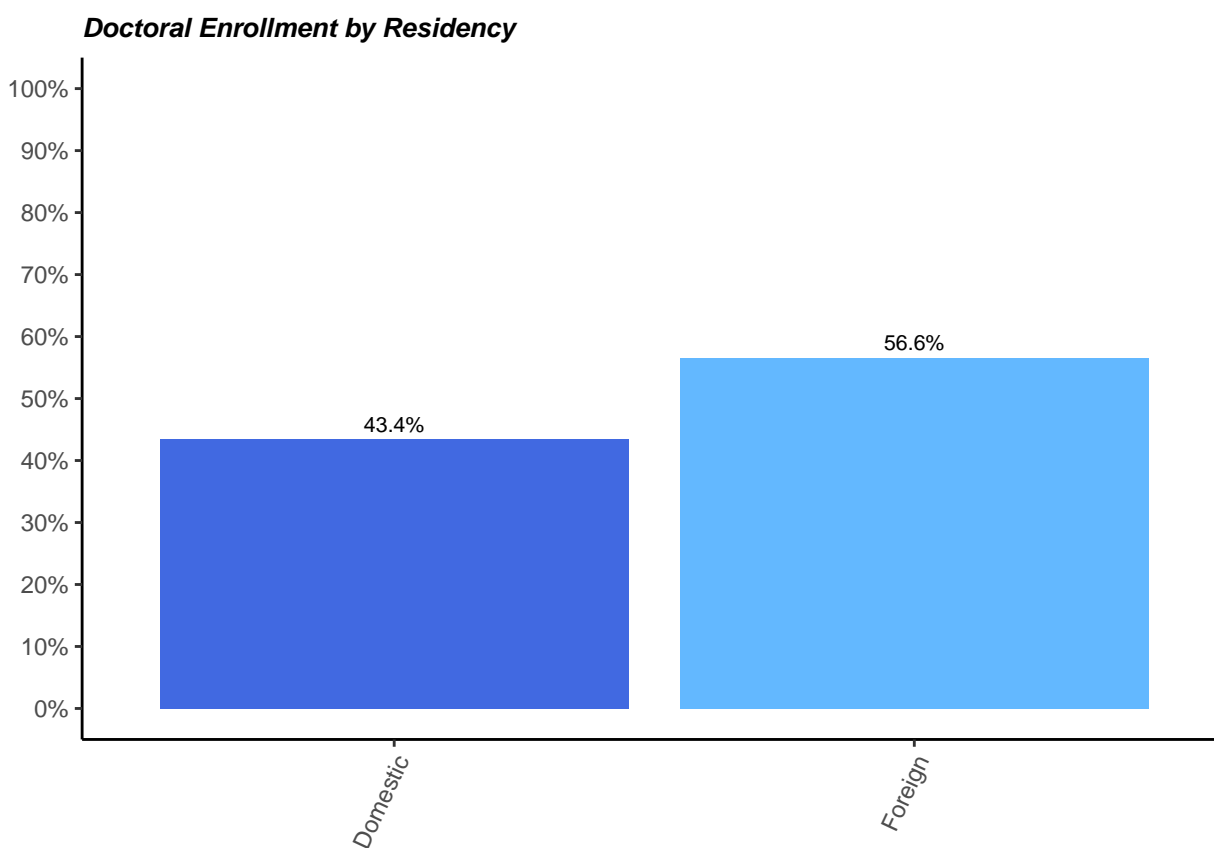
| Ethnicity              | Percentage |
|------------------------|------------|
| Black or Afr. American | 4.9%       |
| Hispanic               | 9.3%       |
| Other                  | 4.3%       |
| Asian American         | 14.8%      |
| White                  | 57.6%      |
| Unknown           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



### 3.2.5 Doctoral Enrollment by Residency

Table 75: Doctoral Enrollment by Residency

| Nationality | Percentage |
|-------------|------------|
| Foreign     | 58.3%      |
| Domestic    | 41.7%      |



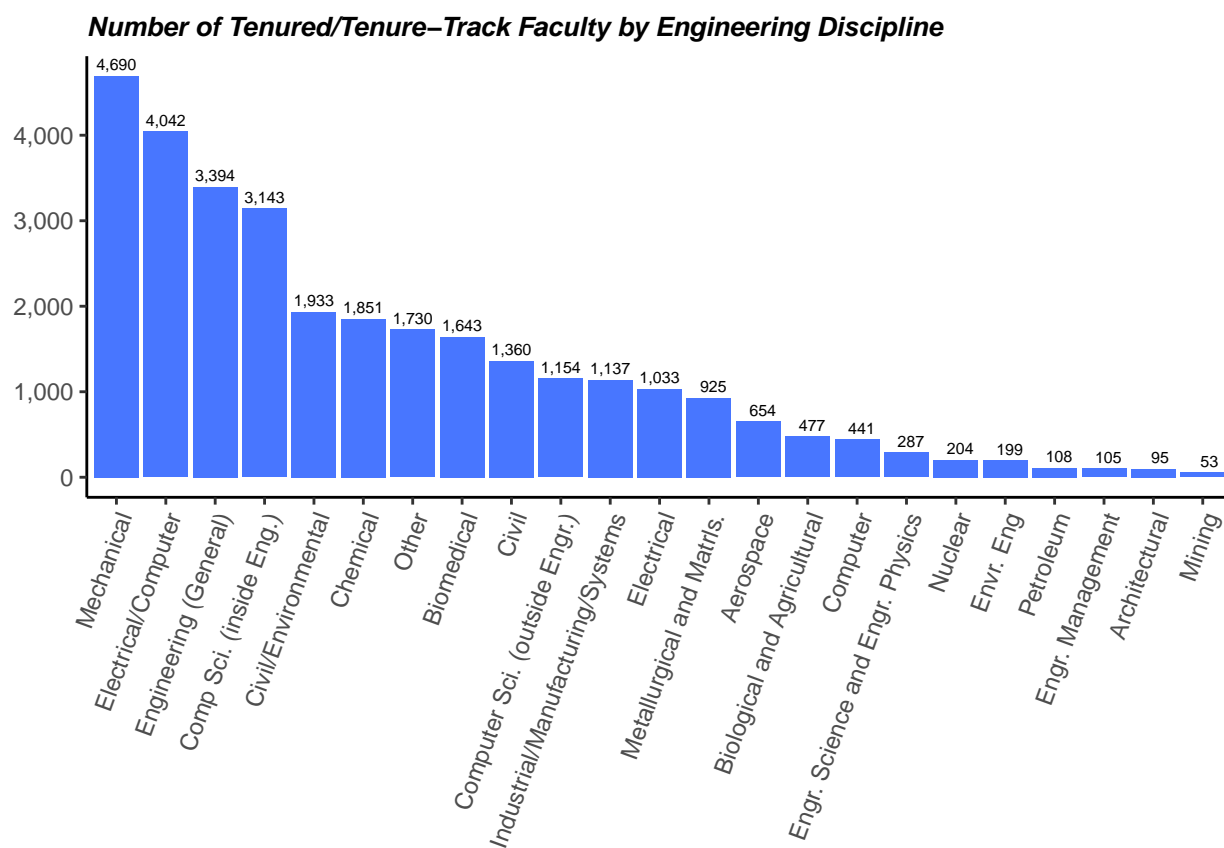
## 4 ENGINEERING FACULTY

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

Table 76: 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                |

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

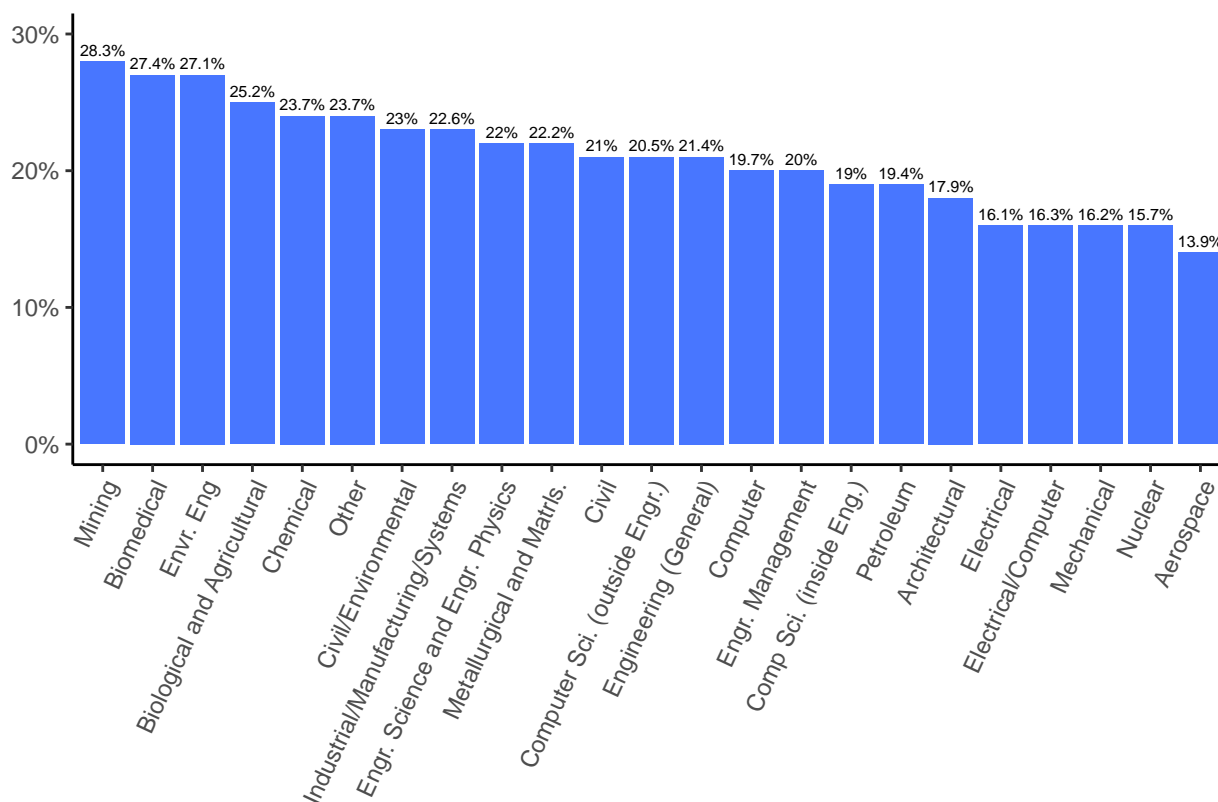


## 4.2 Percentage of Female Tenured/Tenure-Track Faculty by Discipline

Table 77: 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 78: 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 78: 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 79: 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 80: Top 20 Institutions by Percentage of Underrepresented Minorities Tenured/Tenure-Track Faculty

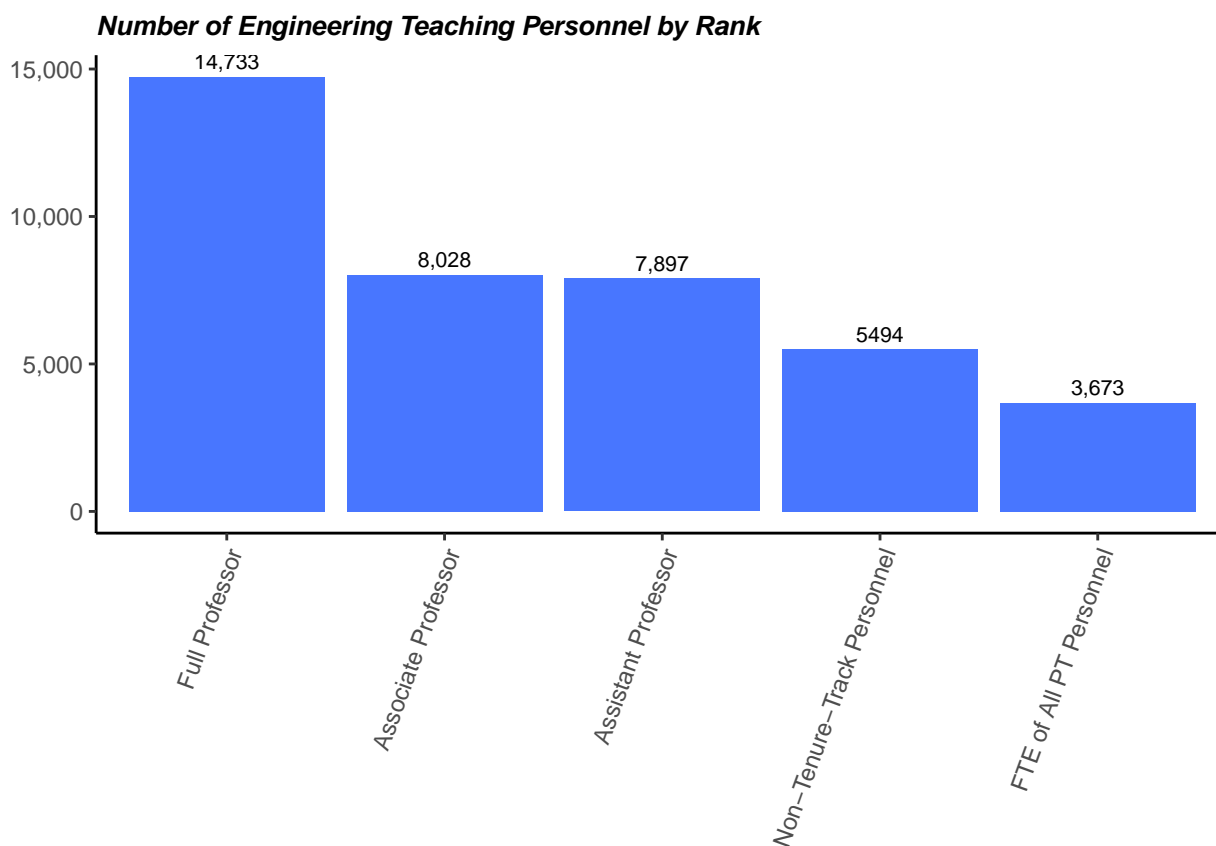
| No | Institutions                               | Percent Underrepresented Minorities |
|----|--|-------------------------------------|
| 1  | University of Puerto Rico, Mayaguez Campus | 90.9%                               |
| 2  | Virginia State University                  | 60%                                 |
| 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%                               |

\* 298 Institutions included

#### 4.6 Number of Engineering Teaching Personnel by Rank

Table 81: Number of Engineering Teaching Personnel by Rank 39,825

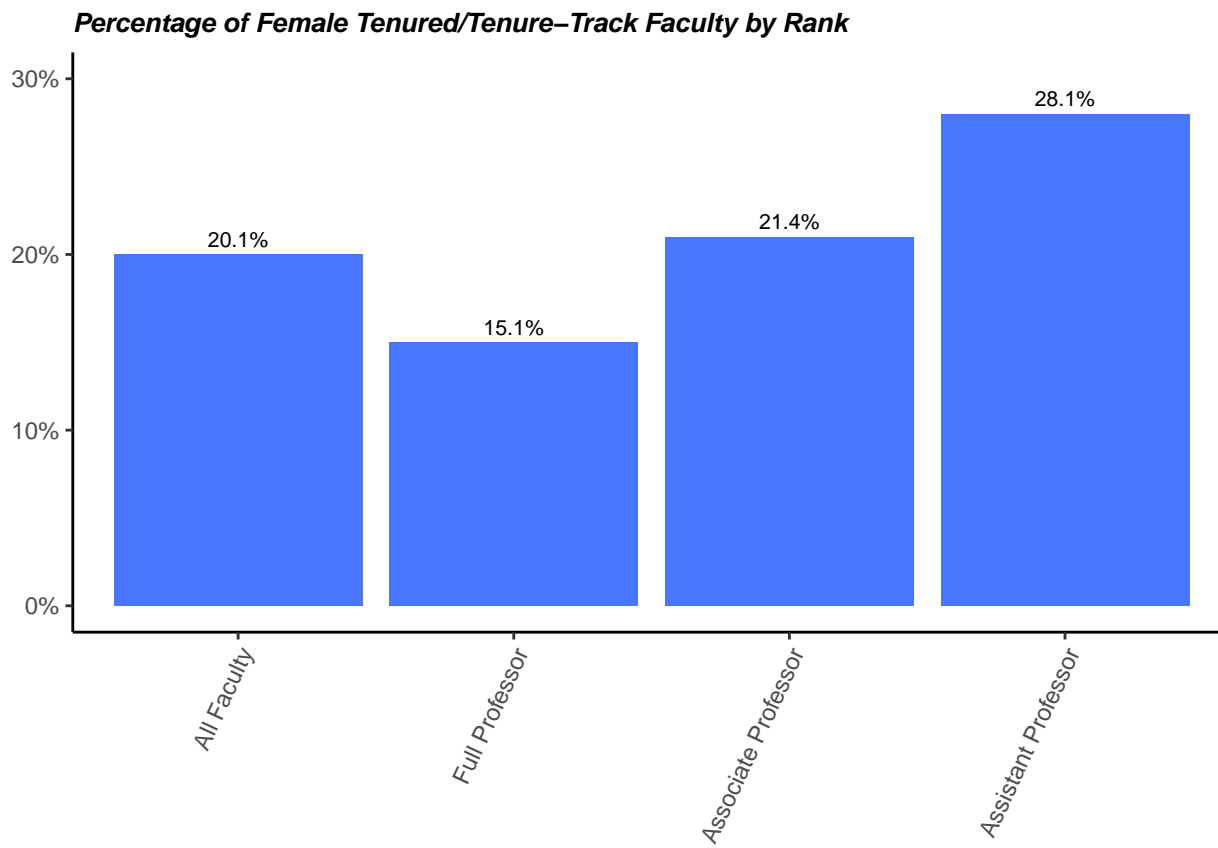
| Rank                       | Number of Faculty |
|----------------------------|-------------------|
| Full Professor             | 14,733            |
| Associate Professor        | 8,028             |
| Assistant Professor        | 7,897             |
| Non-Tenure-Track Personnel | 5,494             |
| FTE of All PT Personnel    | 3,673             |



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

Table 82: 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%   |



## 4.8 Top 50 Institutions with Highest Percentage of Female Tenured/Tenure Track Faculty

Table 83: 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%         |
| 14 | University of Portland                      | 35%           |
| 15 | Loyola Marymount University                 | 34.4%         |
| 16 | Lafayette College                           | 34.1%         |
| 17 | Mercer University                           | 33.3%         |
| 17 | Middle Tennessee State University           | 33.3%         |
| 17 | Union College                               | 33.3%         |
| 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%         |

\* 298 Institutions included

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

Table 84: 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                |

\* 298 Institutions included

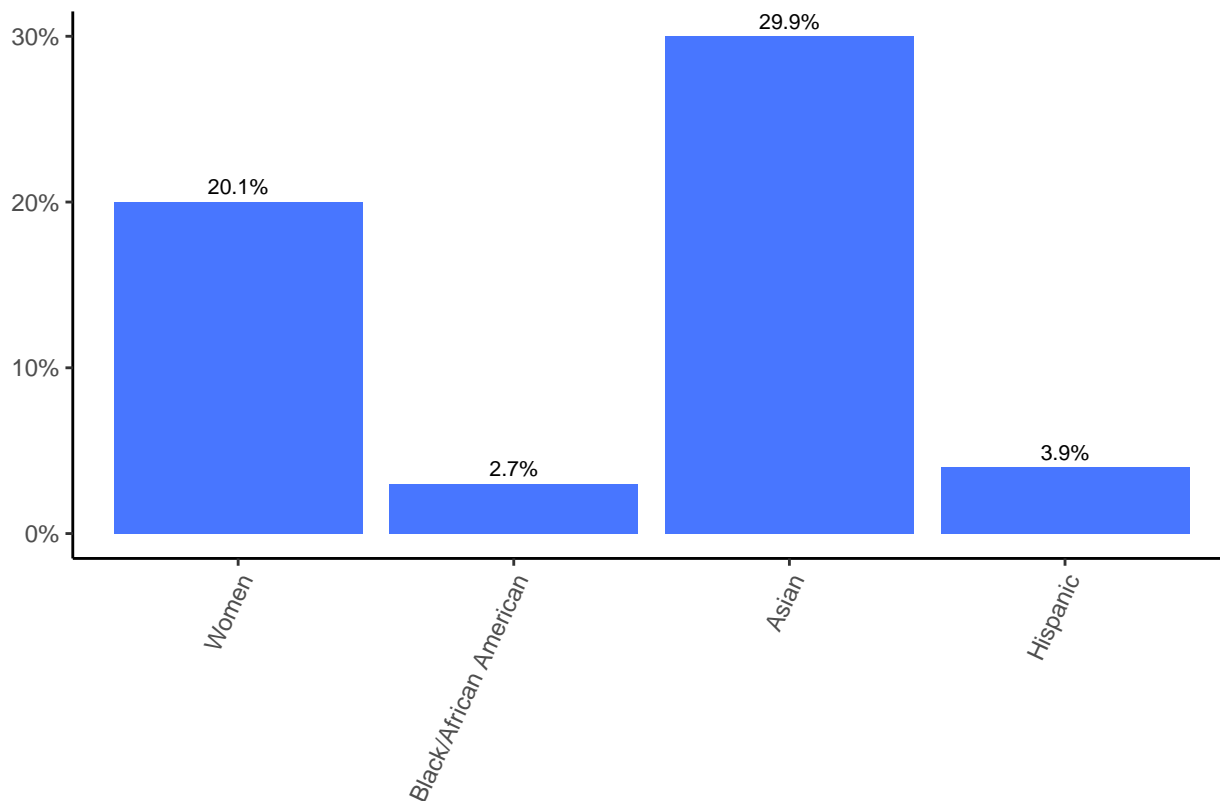
#### 4.10 Percentage of Women and Minority Faculty Members

Table 85: 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.

**Percentage of Women and Minority Faculty Members 2010–2020\***



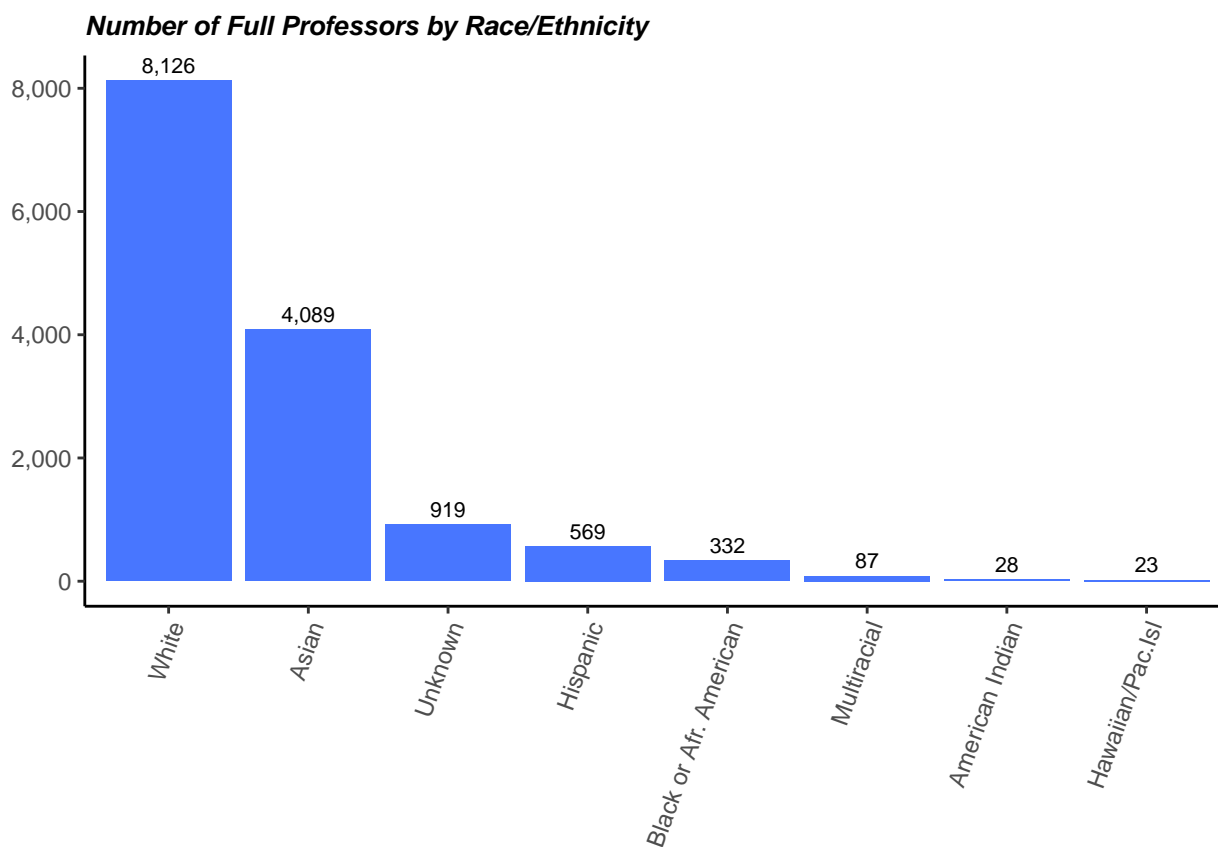
#### 4.11 Number of Full Professors by Race/Ethnicity

Table 86: 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                |

\* Includes 116 Faculty from Institutions in Puerto Rico.

\* Computer Science(Outside Engineering) has been removed



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

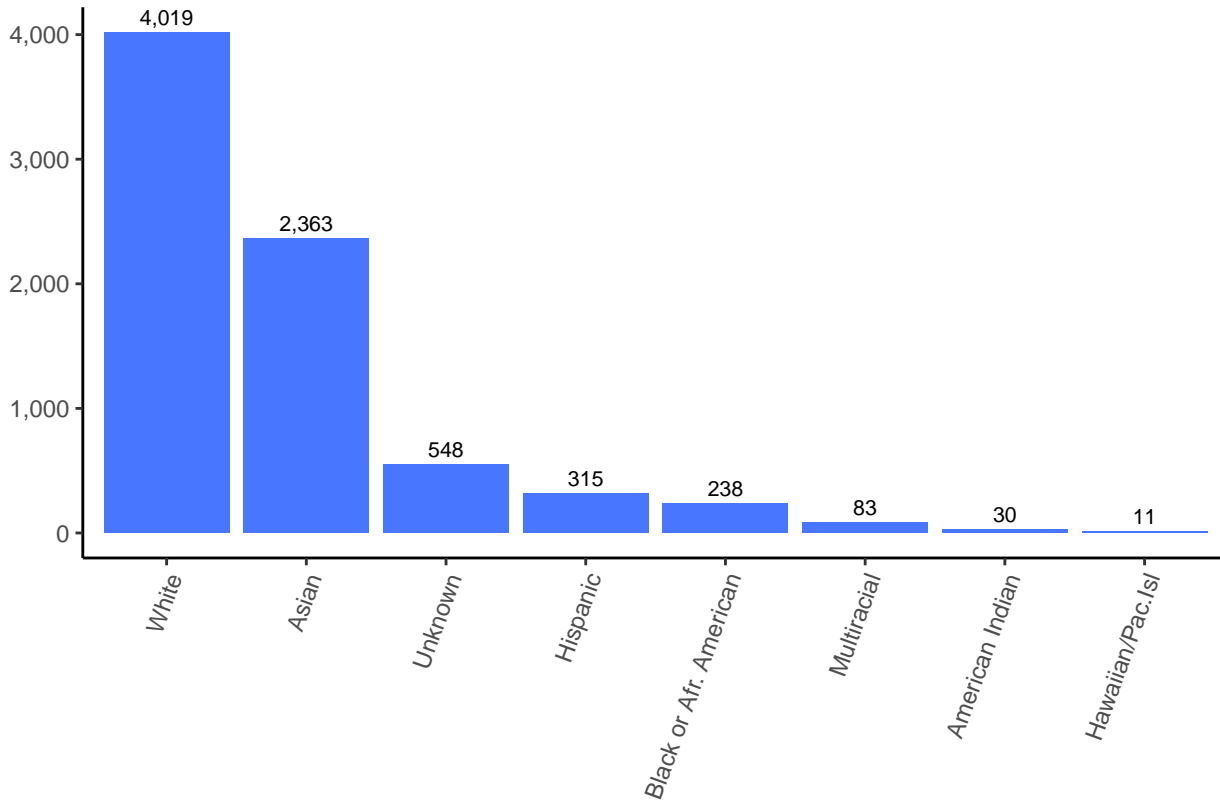
Table 87: Number of Associate Professors by Race/Ethnicity: 7,607

| 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.

\* Computer Science(Outside Engineering) has been removed

**Number of Associate Professors by Race/Ethnicity**



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

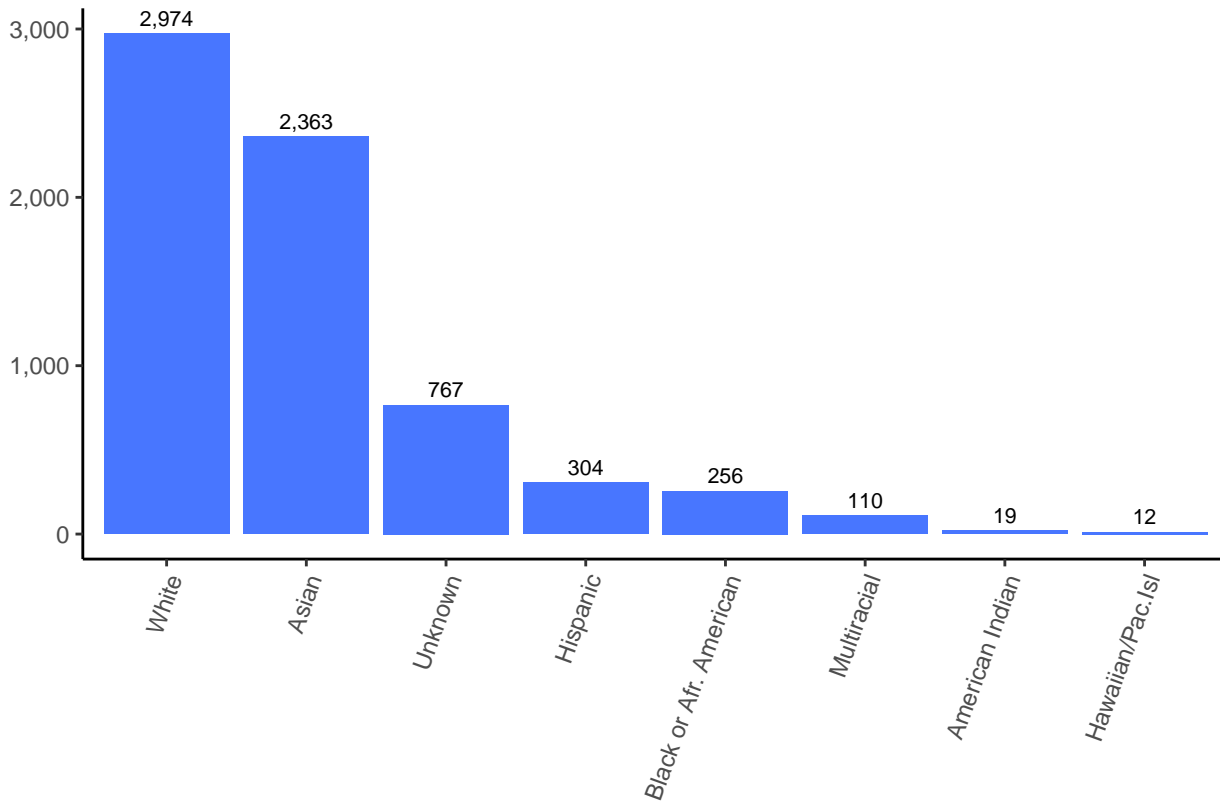
Table 88: Number of Assistant Professors by Race/Ethnicity: 6,805

| 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.

\* Computer Science(Outside Engineering) has been removed

**Number of Assistant Professors by Race/Ethnicity**

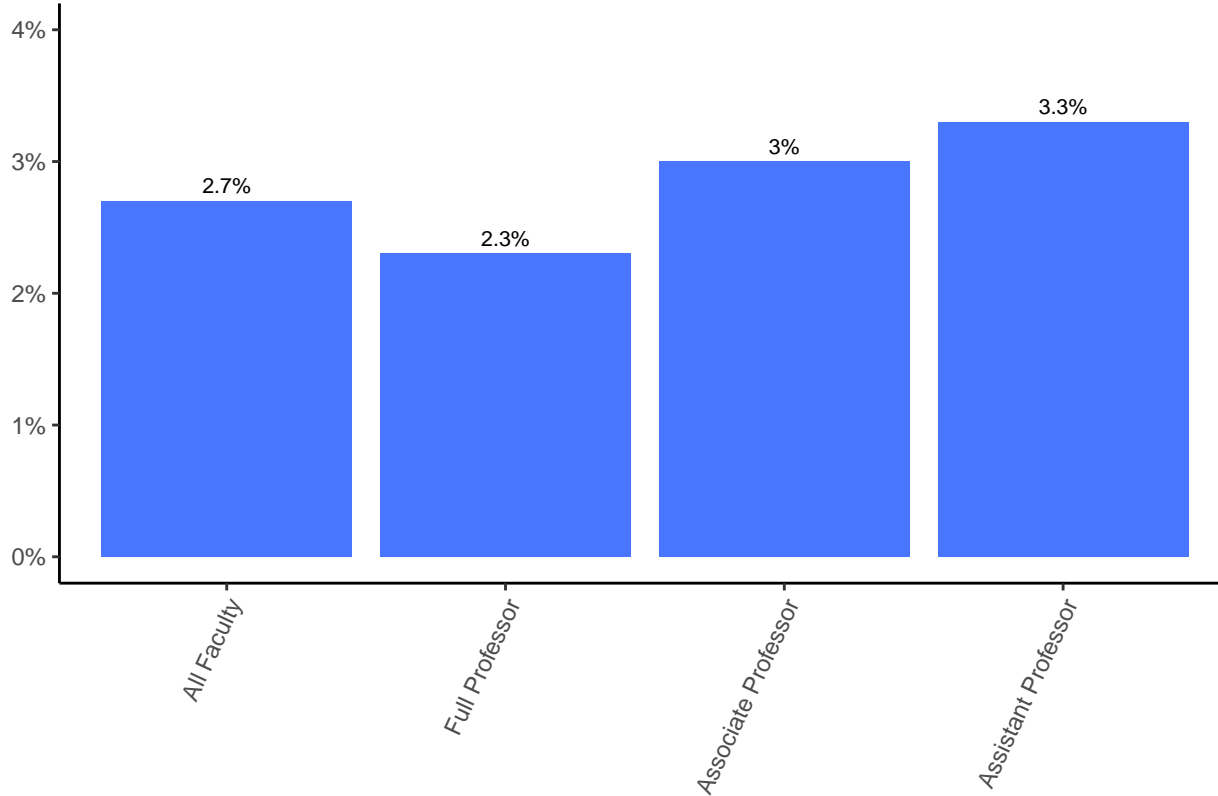


#### 4.14 Percentage of Black/African American Tenured/Tenure-Track Faculty by Rank

Table 89: 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%    |

**Percentage of African American Tenured/Tenure-Track Faculty by Rank**

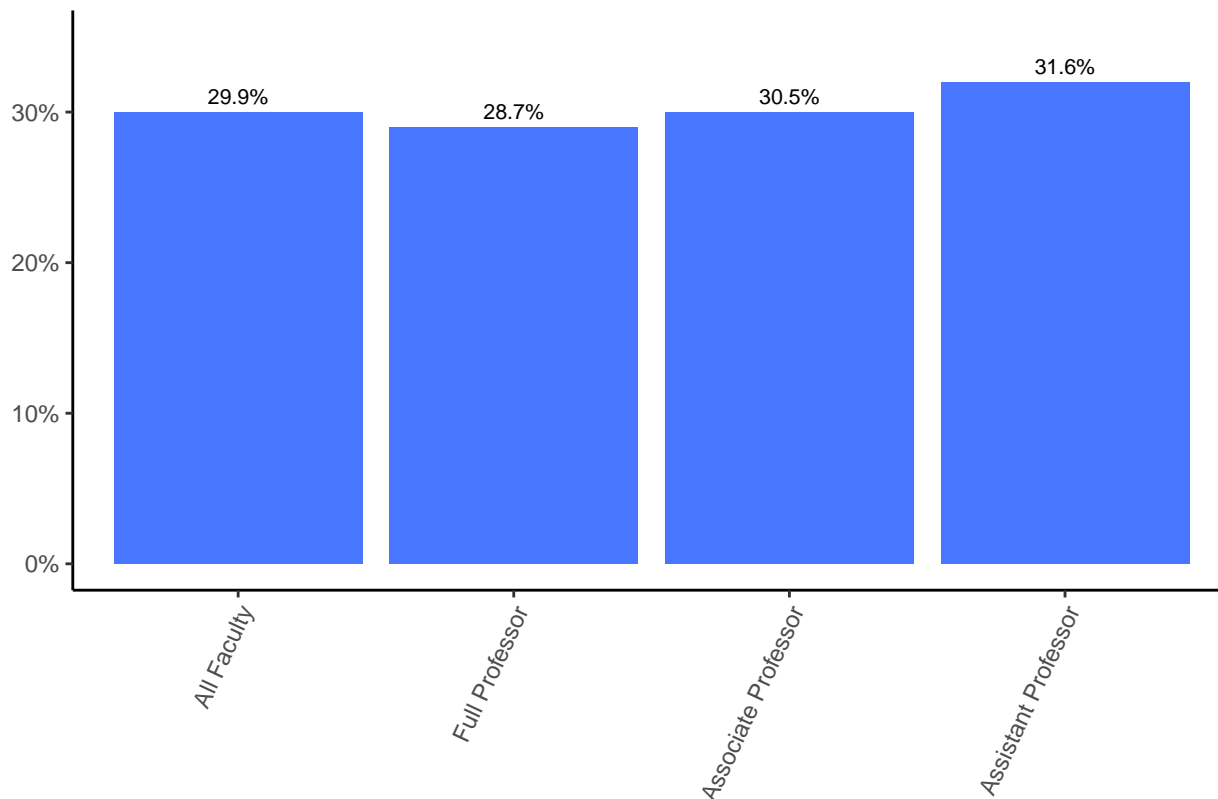


#### 4.15 Percentage of Asian Tenured/Tenure-Track Faculty by Rank

Table 90: 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%   |

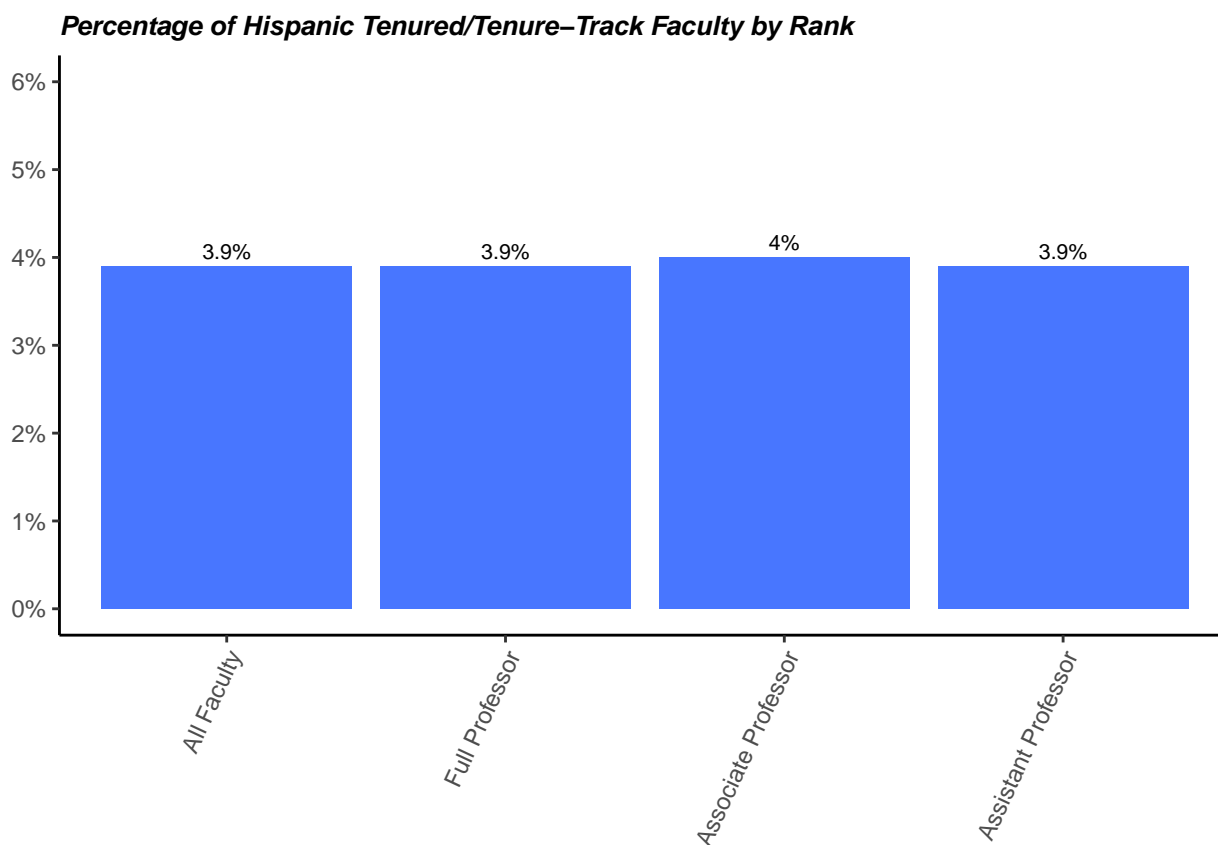
**Percentage of Asian Tenured/Tenure-Track Faculty by Rank**



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

Table 91: 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%    |



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

Table 92: 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 93: 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 94: Hispanic Tenured/Tenure Track Faculty by Institutions

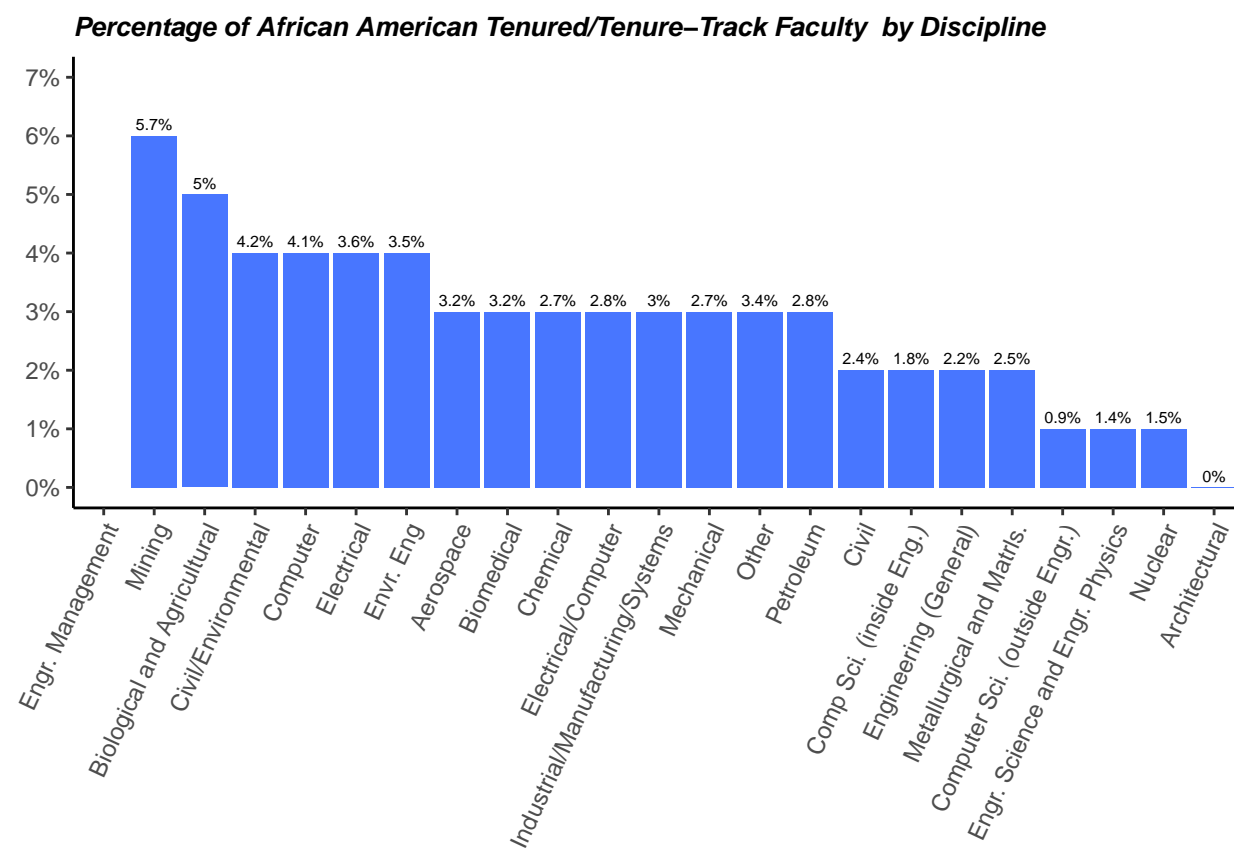
| No | Institutions  | Number of Faculty |
|----|---|-------------------|
| 1  | University of Puerto Rico, Mayaguez Campus          | 124               |
| 2  | Florida Atlantic University                         | 35                |
| 3  | Texas A&M University                                | 33                |
| 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

Table 95: Percentage of African American Tenured/Tenure-Track Faculty by Discipline: 2.7 % of Total

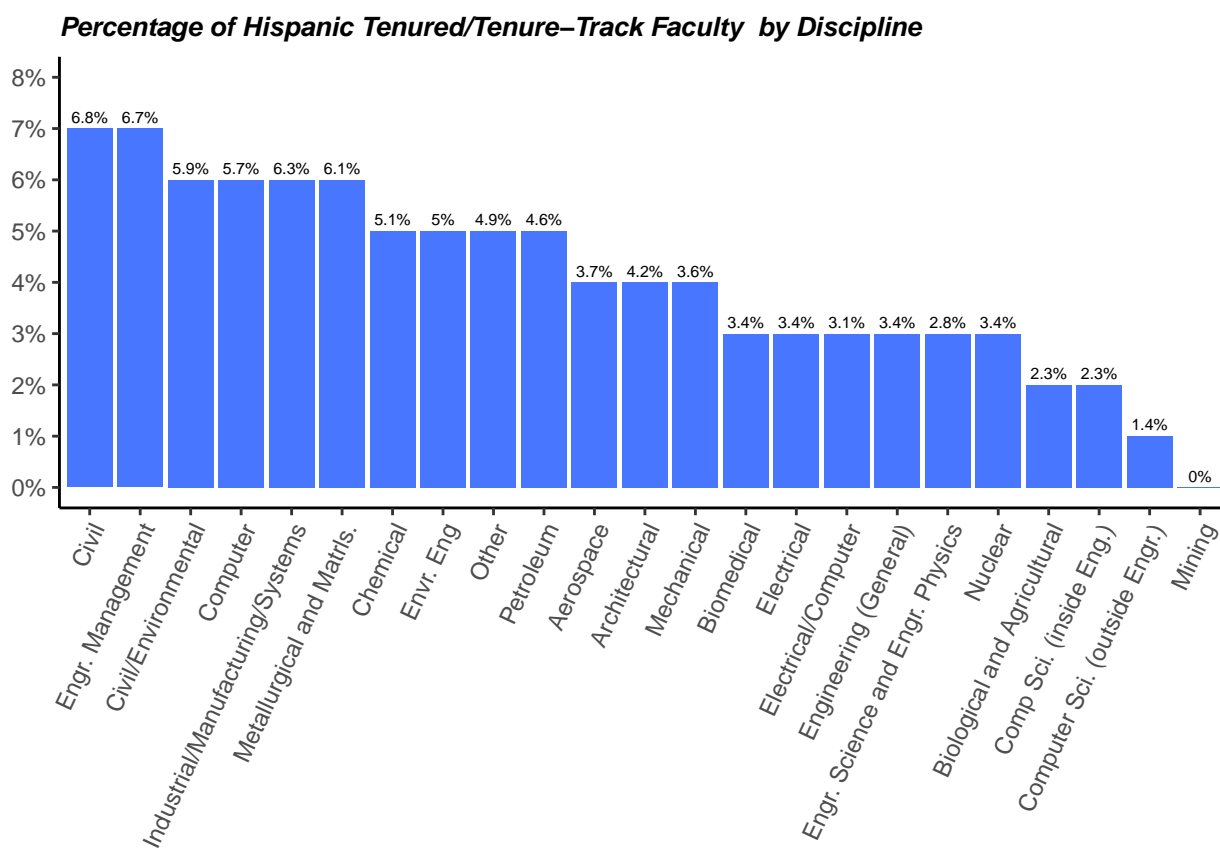
| Discipline Name                  | Percentage |
|----------------------------------|------------|
| Engr. Management                 | 7.6%       |
| Mining                           | 5.7%       |
| Biological and Agricultural      | 5%         |
| Civil/Environmental              | 4.2%       |
| 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%         |



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

Table 96: Percentage of Hispanic Tenured/Tenure-Track Faculty by Discipline: 3.9 % of Total

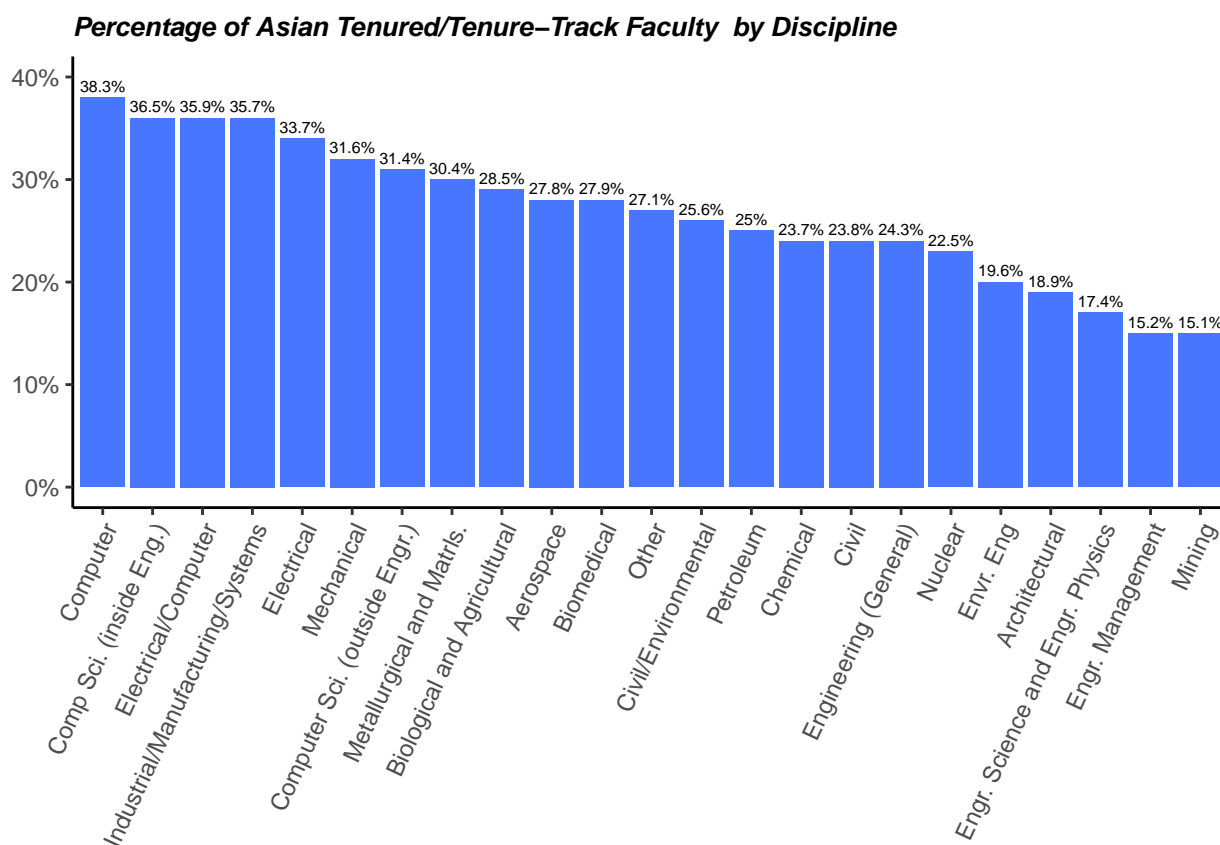
| Discipline Name                  | Percentage |
|----------------------------------|------------|
| Civil                            | 6.8%       |
| Engr. Management                 | 6.7%       |
| Industrial/Manufacturing/Systems | 6.3%       |
| Metallurgical and Matrls.        | 6.1%       |
| 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%         |



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

Table 97: Percentage of Asian Tenured/Tenure-Track Faculty by Discipline: 29.9 % of Total

| Discipline Name                  | Percentage |
|----------------------------------|------------|
| 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%      |



## 5 ENGINEERING RESEARCH EXPENDITURES

### 5.1 Top 50 Research Expenditure by Institutions

Table 98: 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                  |
| 20 | Cornell University                                  | \$176.7                  |
| 21 | University of Southern California                   | \$176.7                  |
| 22 | Duke University                                     | \$167.4                  |
| 23 | University of Wisconsin-Madison                     | \$163.9                  |
| 24 | Virginia Polytechnic Institute and State University | \$158                    |
| 25 | Arizona State University                            | \$146.8                  |
| 26 | Boston University                                   | \$141.3                  |
| 27 | University of Rochester                             | \$138.5                  |
| 28 | The Pennsylvania State University                   | \$137.8                  |
| 29 | University of Pittsburgh                            | \$129.7                  |
| 30 | University of Delaware                              | \$126.5                  |
| 31 | University of Minnesota -Twin Cities                | \$122.6                  |
| 32 | University of California, Los Angeles               | \$118.1                  |
| 33 | University of California, Davis                     | \$117.9                  |
| 34 | University of California, Irvine                    | \$115.8                  |
| 35 | Iowa State University                               | \$112.3                  |
| 36 | University of Florida                               | \$111.4                  |
| 37 | University of Utah                                  | \$106.7                  |
| 38 | University of Pennsylvania                          | \$105.1                  |
| 39 | Colorado State University                           | \$103.5                  |
| 40 | University of California, Santa Barbara             | \$103.4                  |
| 41 | Colorado School of Mines                            | \$97.9                   |
| 42 | Northeastern University                             | \$97.1                   |
| 43 | University of Virginia                              | \$94.9                   |
| 44 | William Marsh Rice University                       | \$94.9                   |
| 45 | University of Tennessee, Knoxville                  | \$88.8                   |
| 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                   |

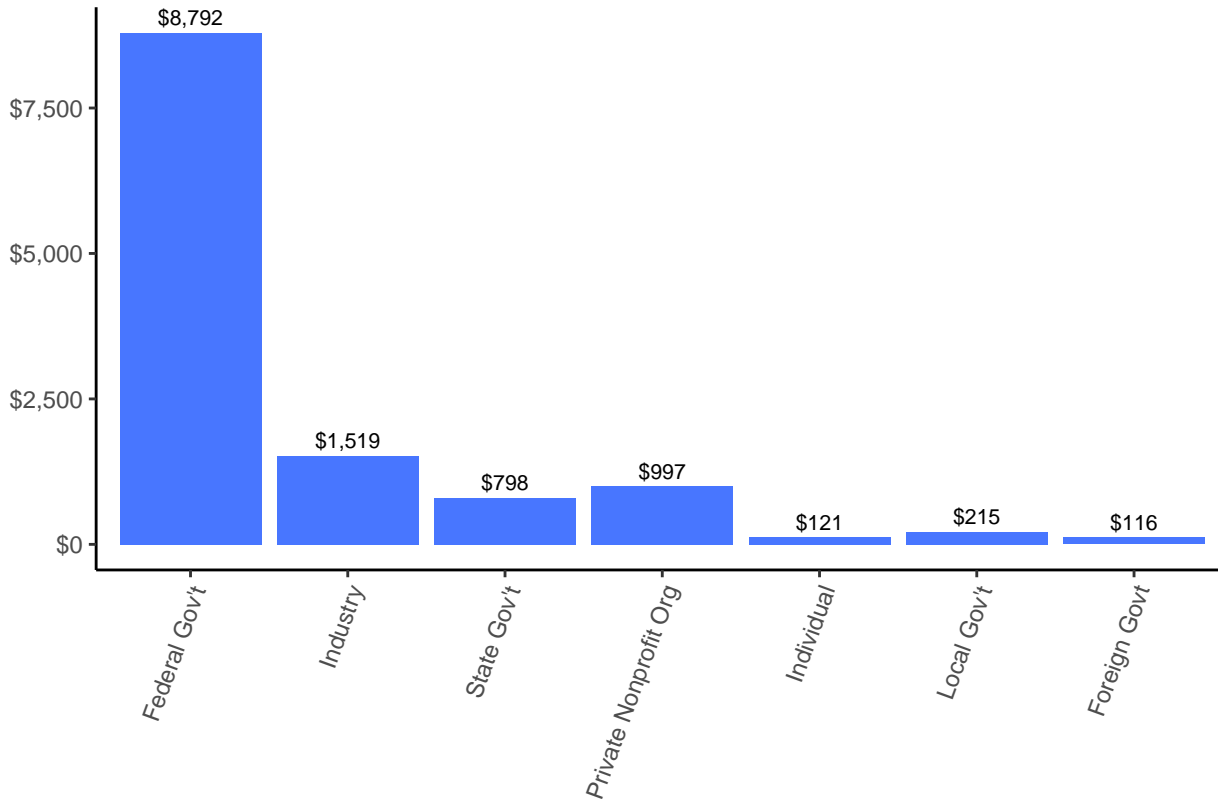
\* 189 Institutions included

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

Table 99: 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   |

**Research Expenditures by Source in Millions of Dollars:**



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

Table 100: Computer Science Research Expenditures Located Outside 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 101: 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 102: 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

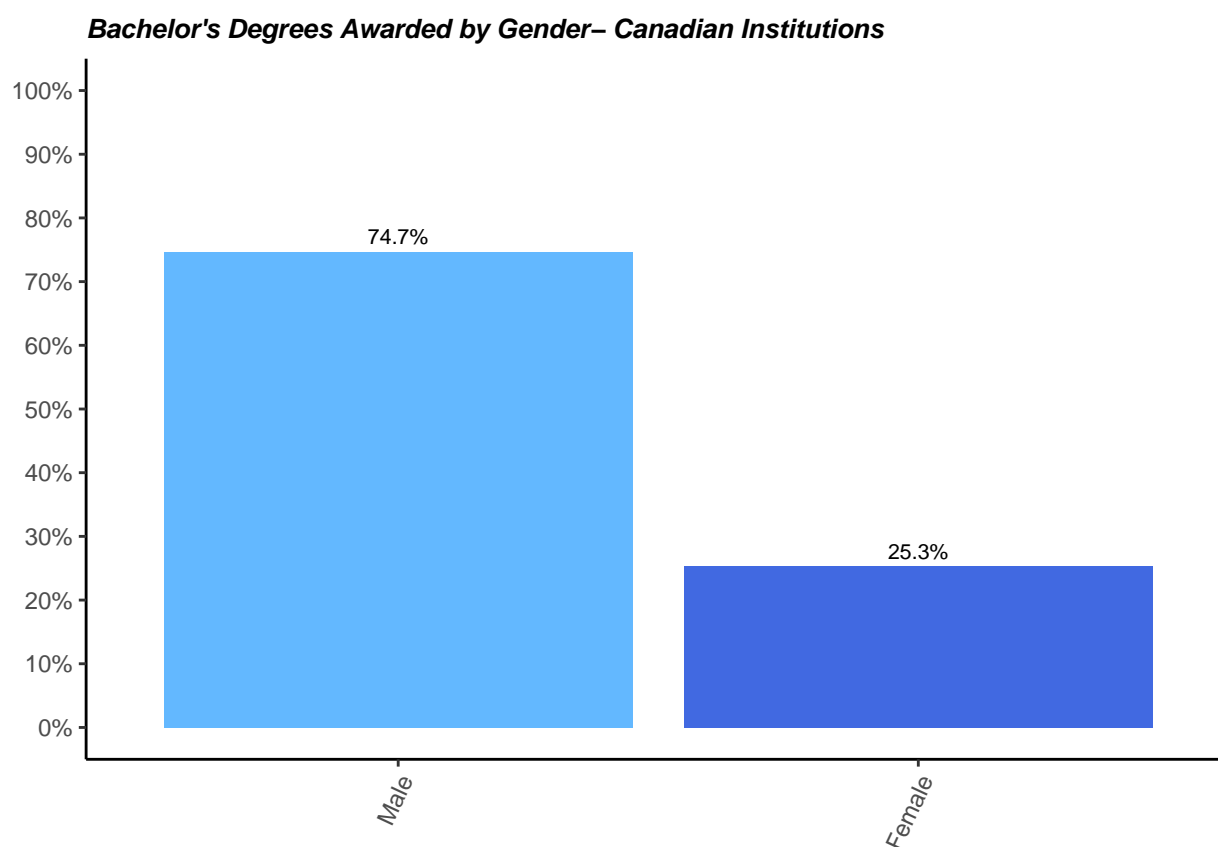
Table 103: Engineering Doctoral Degree by Canadian Institutions

| 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 104: Bachelor's Degrees Awarded by Gender- Canadian Institutions

| Gender | Percentage |
|--------|------------|
| Female | 26.8%      |
| Male   | 73.2%      |

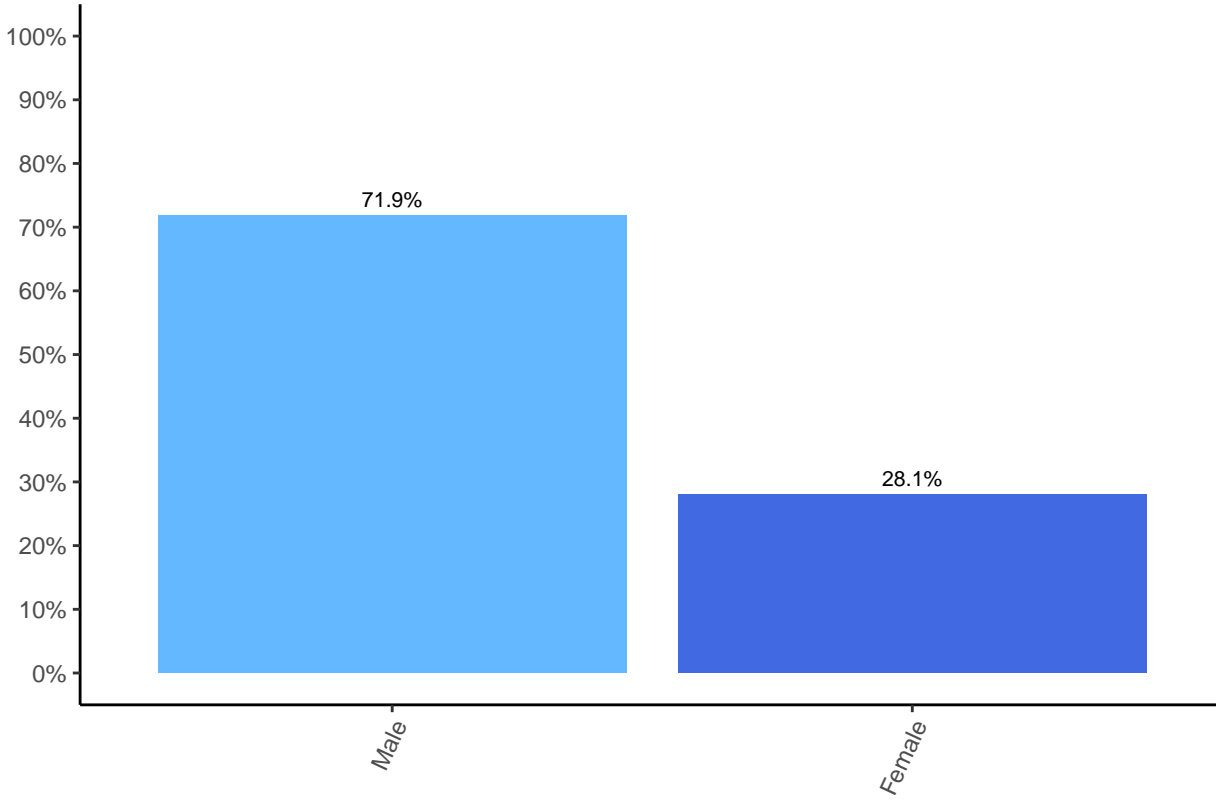


### 6.5 Master's Degrees Awarded by Gender- Canadian

Table 105: Master's Degrees Awarded by Gender- Canadian Institutions

| Gender | Percentage |
|--------|------------|
| Female | 30.2%      |
| Male   | 69.8%      |

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

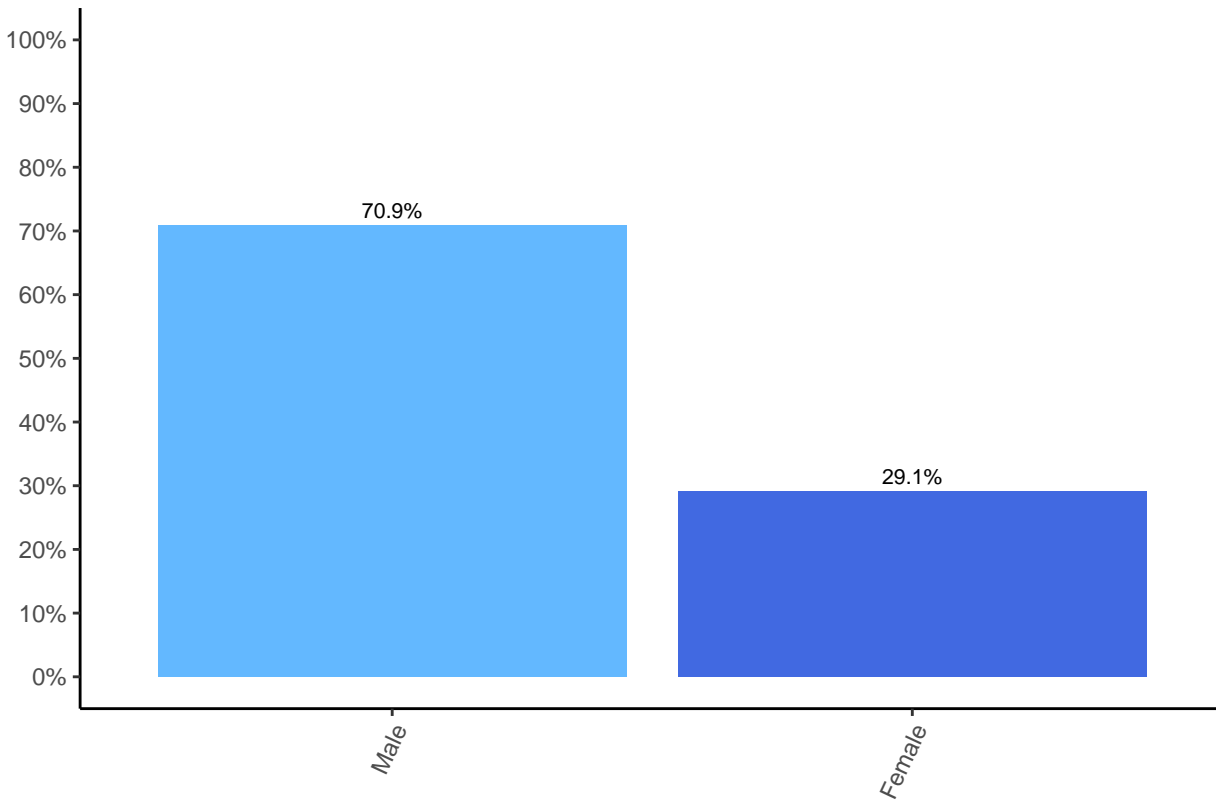


**6.6 Doctoral Degrees Awarded by Gender- Canadian Institutions**

Table 106: 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

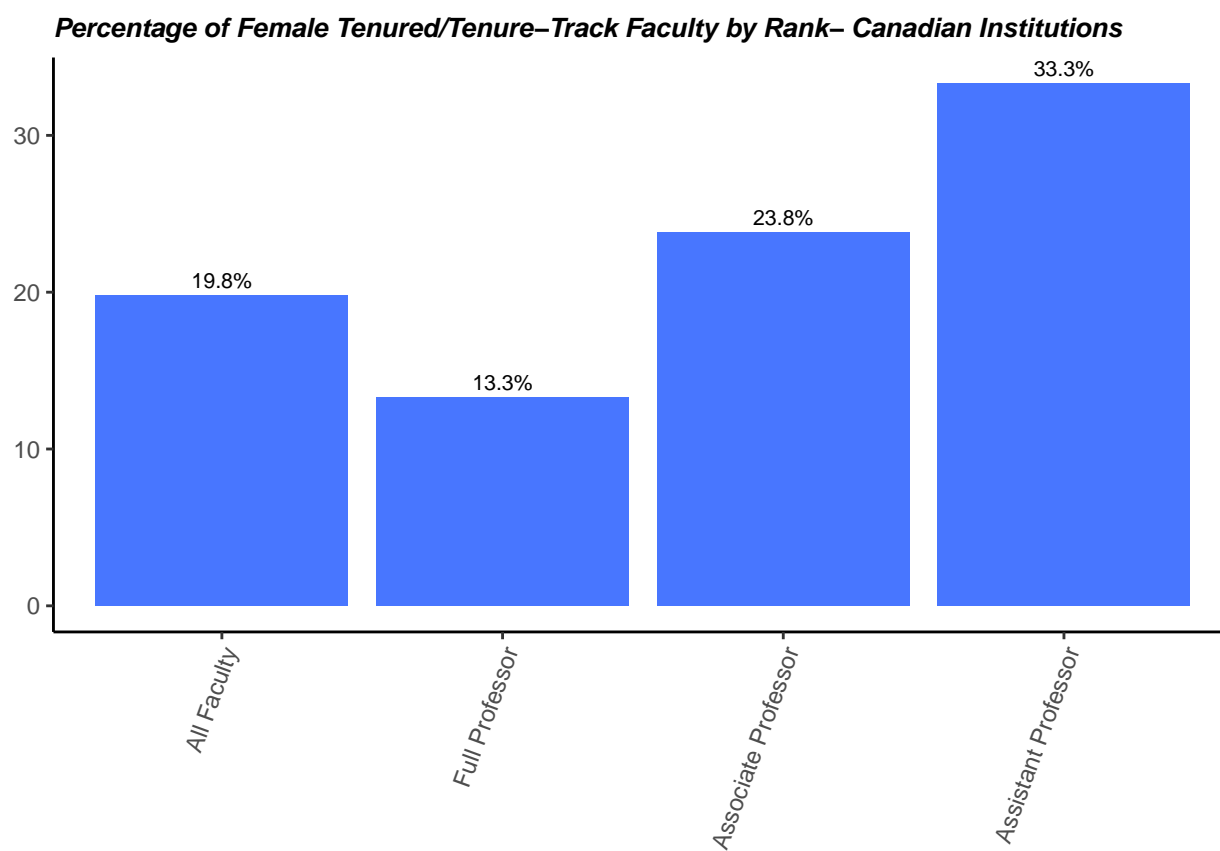
Table 107: Tenured/Tenure-Track Faculty Members by Institutions

| 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 108: Doctoral Enrollment by Race and Ethnicity\*

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



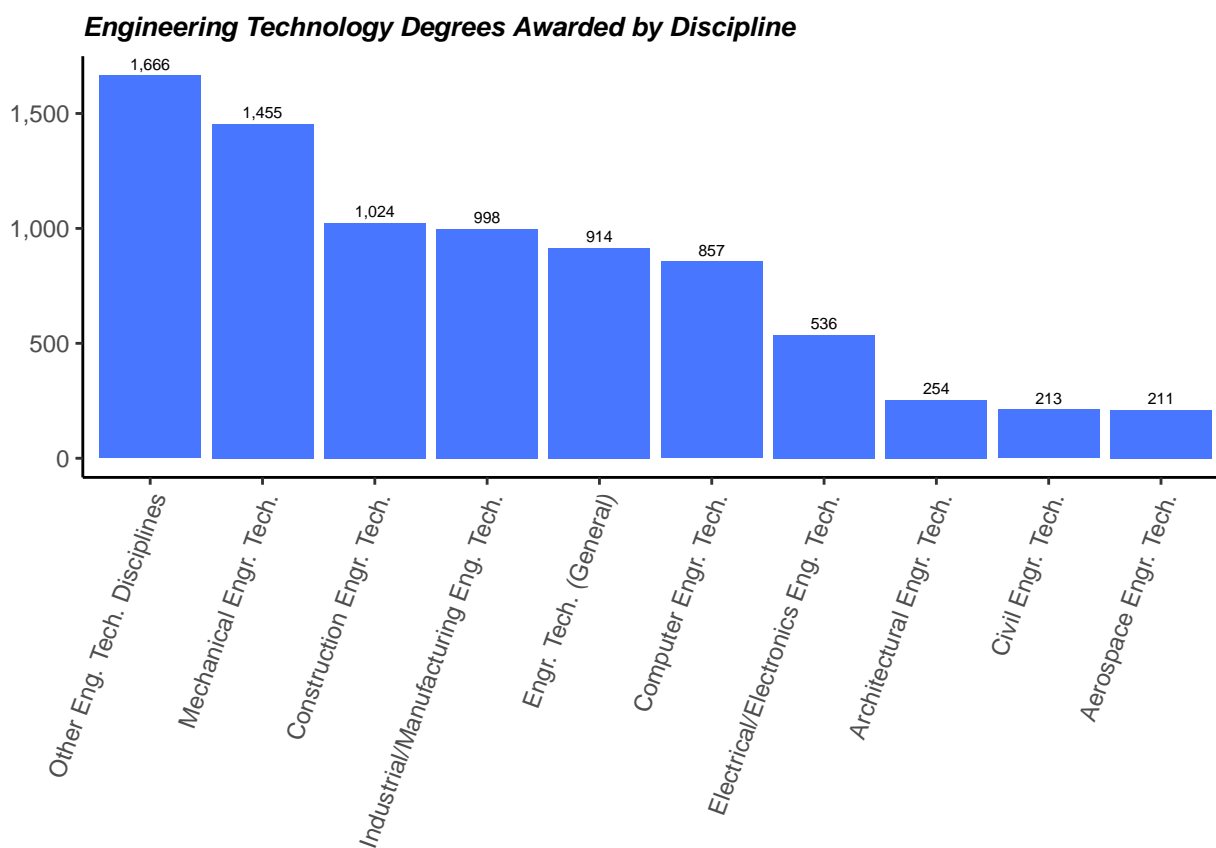
## 7 ENGINEERING TECHNOLOGY

### 7.1 ENGINEERING TECHNOLOGY DEGREES

#### 7.1.1 Engineering Technology Degrees Awarded by Discipline

Table 109: Engineering Technology Degrees Awarded by Discipline : 8,128

| 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             |



#### 7.1.2 Engineering Technology Degrees Awarded to Underrepresented Minorities by Discipline

Table 110: 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 111: Percentage of Engineering Technology Degrees Awarded to Underrepresented Minorities by Discipline 22.7 % of Total

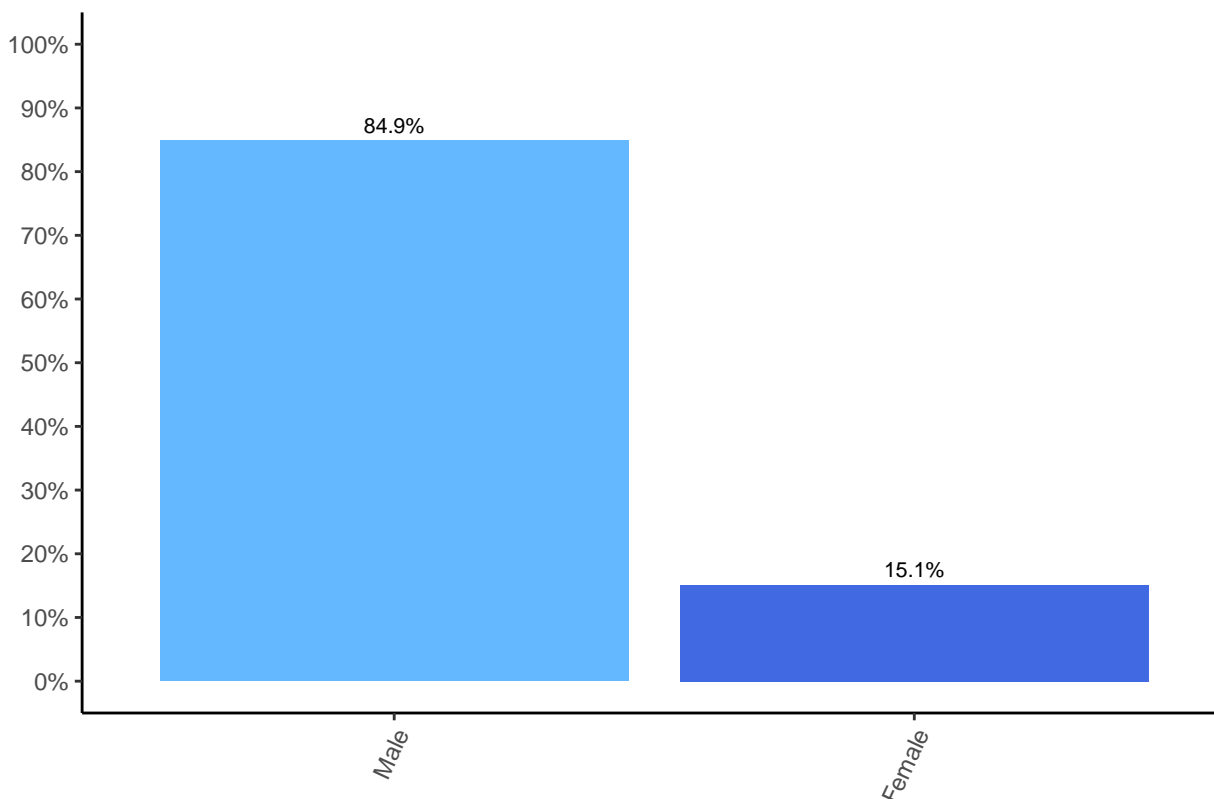
| Discipline Name                     | Percent Women |
|-------------------------------------|---------------|
| Electrical/Electronics Eng. Tech.   | 30.8%         |
| Construction Engr. Tech.            | 30.5%         |
| Computer Engr. Tech.                | 26.3%         |
| Aerospace Engr. Tech.               | 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 112: Engineering Technology Bachelor's Degrees Awarded by Gender

| Gender | 2010  | 2011  | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  | 2019  | 2020  | 2021  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Female | 9.4%  | 9.5%  | 9.4%  | 10.2% | 10.6% | 12.8% | 13.3% | 14.5% | 14.2% | 13.6% | 16.1% | 15.5% |
| Male   | 90.6% | 90.5% | 90.6% | 89.8% | 89.4% | 87.2% | 86.7% | 85.5% | 85.8% | 86.4% | 83.9% | 84.5% |

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



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

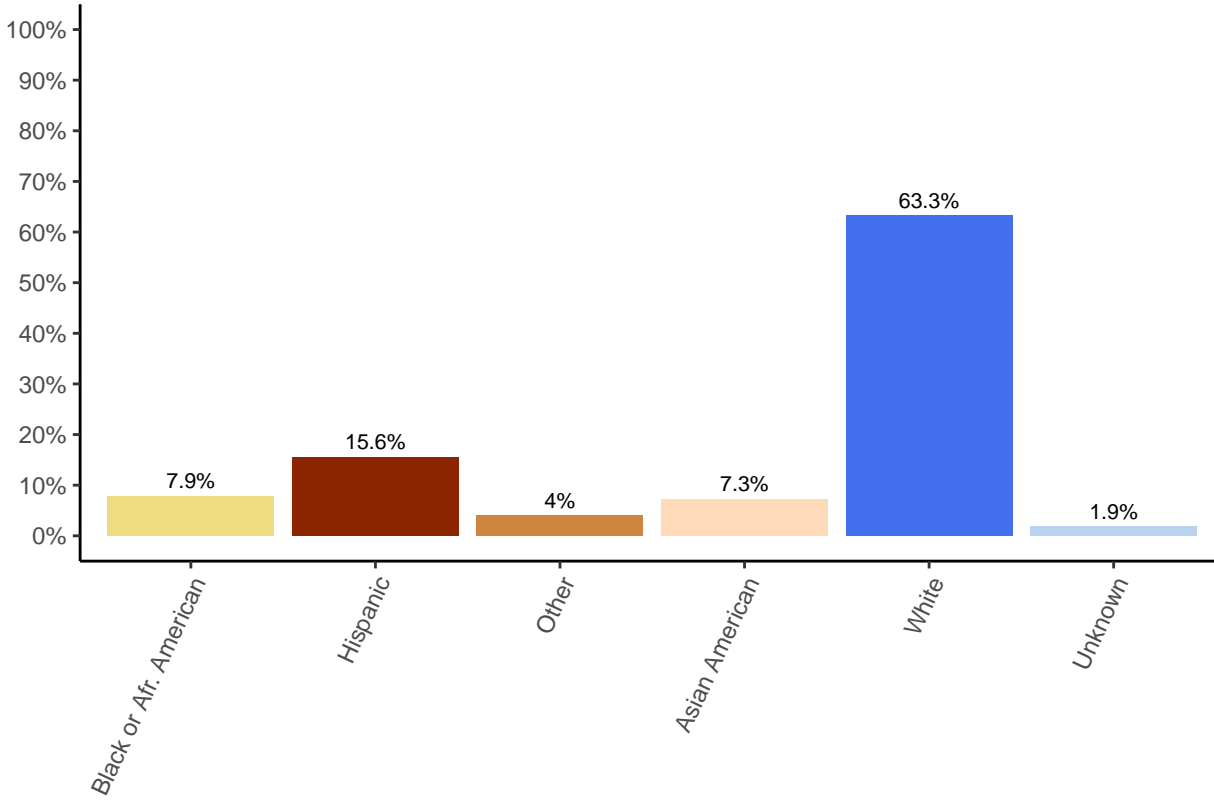
Table 113: Engineering Technology Bachelor's Degrees Awarded by Race and Ethnicity\*

| 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

\* Data on ethnicity does not include foreign nationals.

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

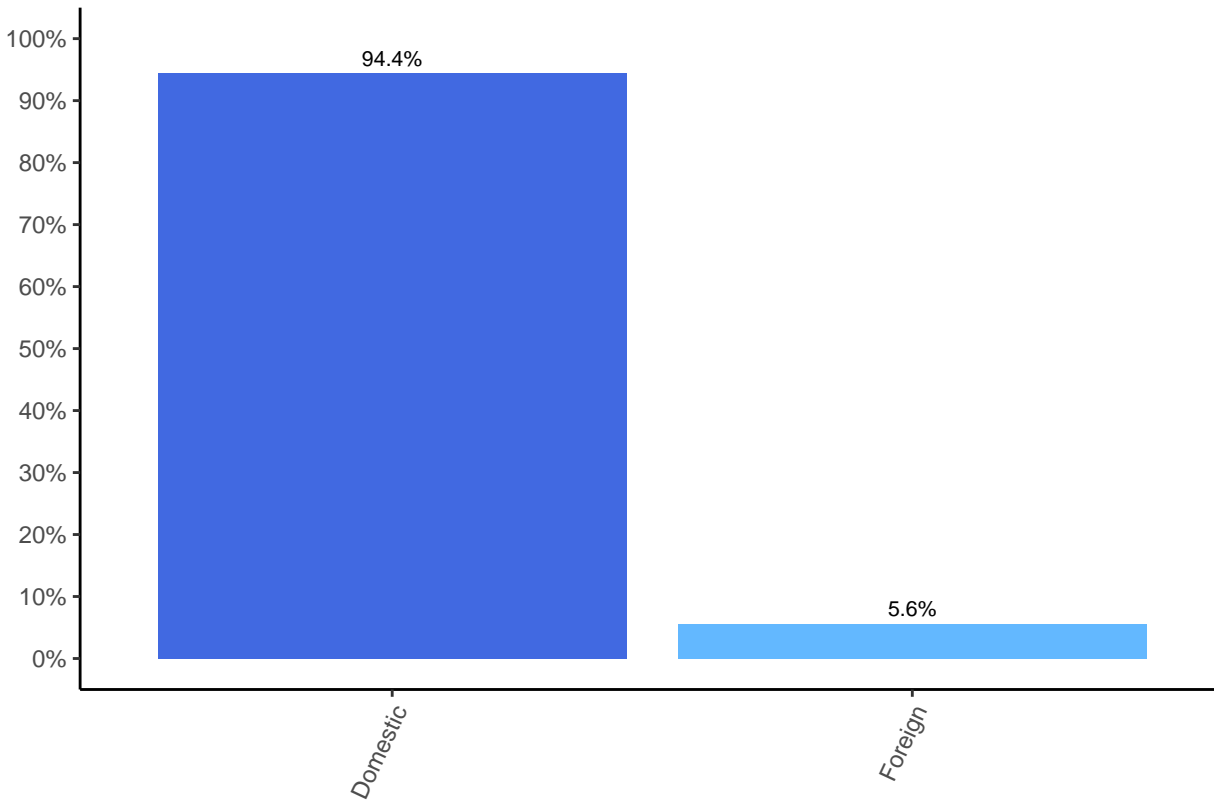


**7.1.6 Engineering Technology Bachelor's Degrees Awarded by Residency**

Table 114: 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**



### 7.1.7 Top 50 Institutions Awarding Highest Number of ET Degrees

Table 115: 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              |
| 45 | Brigham Young University - Idaho          | 51              |
| 46 | Minnesota State University-Mankato        | 50              |
| 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 116: 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 116: Top 50 Institutions by Engineering 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               |

\* 105 Institutions included

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

Table 117: 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 117: 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 118: 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               |
| 28 | Lamar University                                   | 8               |
| 28 | 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

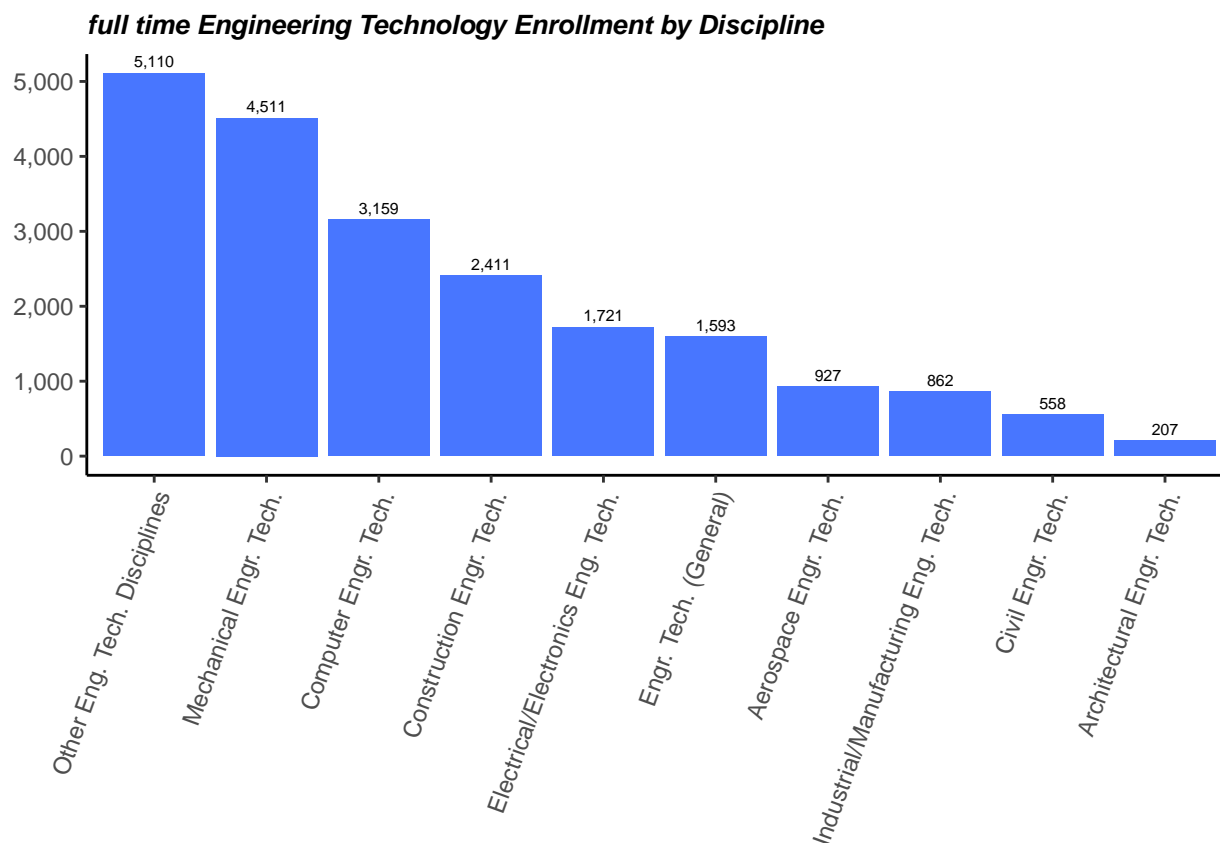
## 7.2 ENGINEERING TECHNOLOGY ENROLLMENT, FALL 2021

### 7.2.1 Full time Engineering Technology Enrollment by Discipline

Table 119: Full time Engineering Technology Enrollment by Discipline: 21,059

| Discipline Name                     | Degrees Awarded |
|-------------------------------------|-----------------|
| Other Eng. Tech. Disciplines        | 5,110           |
| Mechanical Engr. Tech.              | 4,511           |
| Computer Engr. Tech.                | 3,159           |
| Construction Engr. Tech.            | 2,411           |
| Electrical/Electronics Eng. Tech.   | 1,721           |
| Engr. Tech. (General)               | 1,593           |
| Aerospace Engr. Tech.               | 927             |
| Industrial/Manufacturing Eng. Tech. | 862             |
| Civil Engr. Tech.                   | 558             |
| Architectural Engr. Tech.           | 207             |

\* Enrollment is for full time Bachelor's degree candidates in Engineering Technology



### 7.2.2 Top 50 Institutions by Engineering Technology Enrollment

Table 120: Top 50 Institutions by Engineering Technology Enrollment

| No | Institutions                              | Enrollments |
|----|---|-------------|
| 1  | Arizona State University                  | 5,485       |
| 2  | Texas A&M University                      | 2,528       |
| 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 120: Top 50 Institutions by Engineering Technology Enrollment (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          |

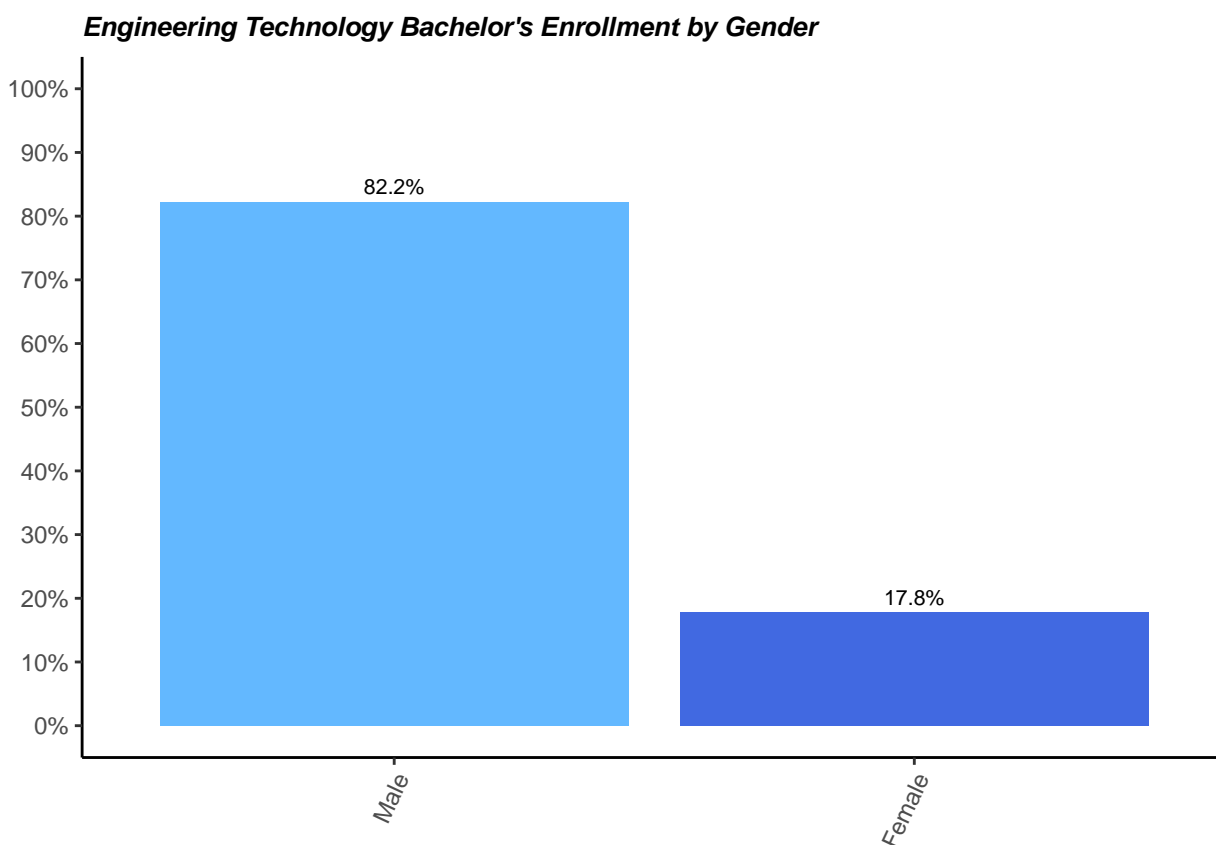
\* 105 Institutions reported.

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

### 7.2.3 Engineering Technology Enrollment by Gender

Table 121: Engineering Technology Enrollment by Gender

| Gender | Percentage |
|--------|------------|
| Female | 17.4%      |
| Male   | 82.6%      |



## 7.2.4 Engineering Technology Enrollment by Race and Ethnicity

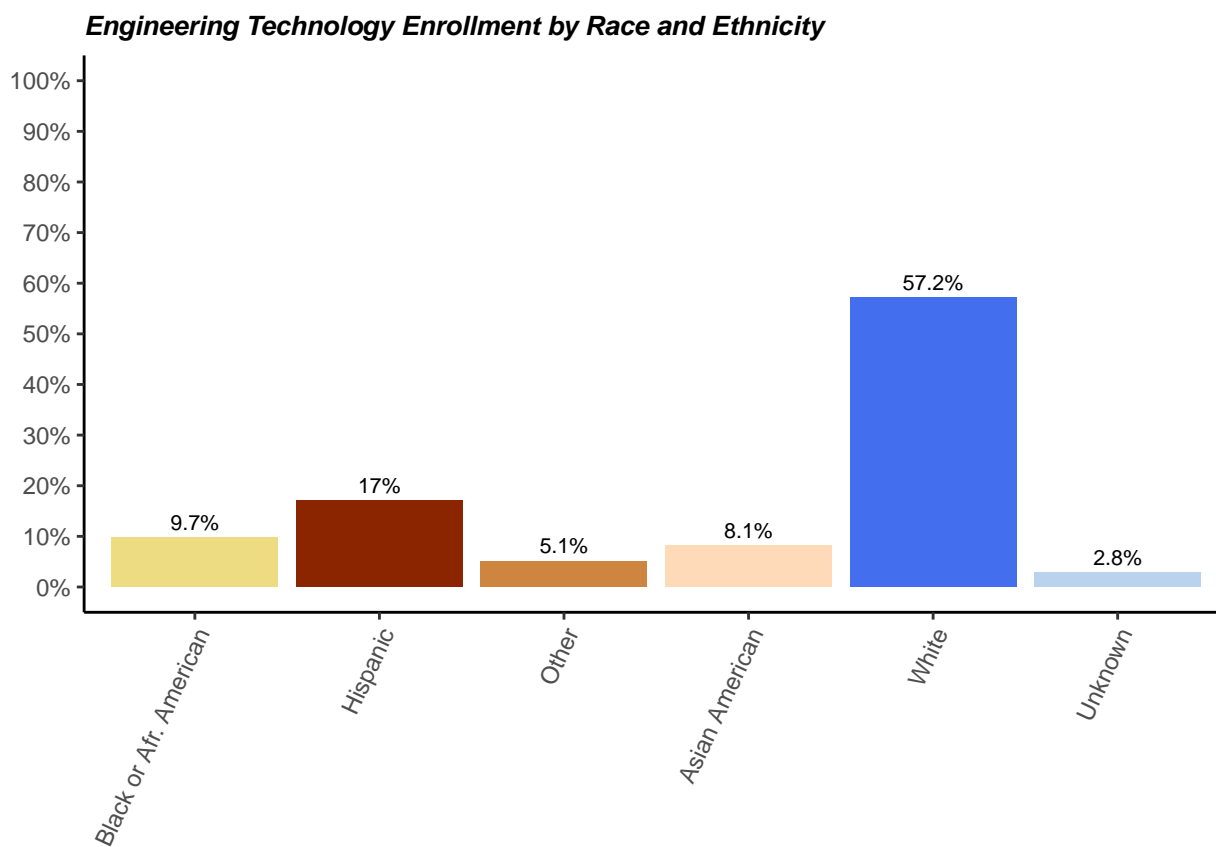
Table 122: Engineering Technology Enrollment by Race and Ethnicity\*

| 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 0.6% Native Hawaiian/Other Pacific Islander 0.4%

\* and Multiracial 4.1% are combined under other

\* Data on ethnicity does not include foreign nationals.



### 7.2.5 Engineering Technology Enrollment by Residency

Table 123: Engineering Technology Enrollment Awarded by Residency

| Nationality | Percentage |
|-------------|------------|
| Foreign     | 3.8%       |
| Domestic    | 96.2%      |

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

\* 51 Institutions reported.

