



Engineering & Engineering Technology by the Numbers, 2024



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

Profiles of Engineering and Engineering Technology, 2024

©2025 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. (2025).

Profiles of Engineering and Engineering Technology, 2024. Washington, DC.

Engineering & Engineering Technology in 2024

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 2024):

Fall 2024: 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, 2024. Research expenditures are based on the most recently completed fiscal year ending in 2024.

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 than 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 2024–25

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 Alaska Fairbanks-College of
 Engineering and Mines
 University of Arizona
 University of Arkansas
 University of Arkansas at Little Rock
 University of British Columbia
 University of Calgary
 University of California-Berkeley
 University of California-Davis
 University of California-Irvine
 University of California-Los Angeles
 University of California-Merced
 University of California-Riverside
 University of California-San Diego
 University of California-Santa Barbara
 University of California-Santa Cruz
 University of Central Florida
 University of Cincinnati
 University of Colorado Boulder
 University of Colorado Denver
 University of Connecticut
 University of Dayton
 University of Delaware

University of Detroit Mercy
 University of Florida
 University of Georgia
 University of Hawaii at Manoa
 University of Houston
 University of Idaho
 University of Illinois at Chicago
 University of Illinois at Urbana-Champaign
 University of Kansas
 University of Kentucky
 University of Louisiana at Lafayette
 University of Louisville
 University of Maine
 University of Maryland-Baltimore County
 University of Maryland-College Park
 University of Massachusetts Amherst
 University of Massachusetts Lowell
 University of Michigan
 University of Michigan-Dearborn
 University of Minnesota -Twin Cities
 University of Missouri
 University of Missouri - Kansas City
 University of Nebraska-Lincoln
 University of Nevada-Las Vegas
 University of Nevada-Reno
 University of New Hampshire
 University of North Carolina at Charlotte
 University of North Texas
 University of Notre Dame
 University of Oklahoma-Gallogly College of Engineering
 University of Pennsylvania
 University of Pittsburgh
 University of Puerto Rico-Mayaguez Campus

University of Rhode Island
 University of Rochester
 University of San Diego
 University of South Alabama
 University of South Carolina
 University of South Florida
 University of Southern California
 University of Tennessee-Knoxville
 University of Texas of the Permian Basin
 University of the District of Columbia
 University of the Pacific
 University of Utah
 University of Vermont
 University of Virginia
 University of Waterloo
 University of Wisconsin-Madison
 University of Wisconsin-Milwaukee
 Utah State University
 Valparaiso University
 Vanderbilt University
 Villanova University
 Virginia Commonwealth University
 Virginia Polytechnic Institute and State University
 Washington State University
 Washington University in St. Louis
 Wayne State University
 West Virginia University
 Western Michigan University
 Wichita State University
 William Marsh Rice University
 Worcester Polytechnic Institute
 Wright State University

Institutions that did not participate but reported at least one degree awarded in 2023-24 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 (ETAC or EAC) 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 2024 data collection for Profiles and their data were imported from IPEDS for 2024 degrees awarded:

Alabama A & M University
 Anderson University
 Andrews University
 Arkansas Tech University
 Baker College
 Bates College
 Benedictine College

Bethune-Cookman University
 Bob Jones University
 California Baptist University
 California State University-Bakersfield
 California State University-Chico
 California State University-East Bay
 California State University-Fresno

California State University-Northridge
 California State University-San Bernardino
 Capitol Technology University
 Carroll College
 Central Connecticut State University
 Christian Brothers University
 Christopher Newport University
 College of Staten Island CUNY
 CUNY City College
 Eastern Illinois University
 Eastern Washington University
 Elizabethtown College
 Fairfield University
 Fairleigh Dickinson University-Metropolitan
 Campus
 Ferris State University
 Florida Agricultural and Mechanical
 University
 Florida Atlantic University
 Florida Gulf Coast University
 Florida International University
 Florida Polytechnic University
 Fort Lewis College
 Francis Marion University
 Frostburg State University
 Gannon University
 Geneva College
 Georgia Institute of Technology-Main
 Campus
 Georgia Southern University
 Hampton University
 Harding University
 Hope College
 Idaho State University
 Illinois Institute of Technology
 Indiana Institute of Technology
 Jackson State University
 James Madison University
 Lake Superior State University
 Lamar University
 Lawrence Technological University
 LeTourneau University
 Liberty University
 Lipscomb University
 Loras College
 Loyola University Maryland
 Maine Maritime Academy
 Manhattan College
 Marietta College
 Marshall University
 Massachusetts Maritime Academy
 McNeese State University
 Merrimack College
 Michigan Technological University
 Middle Tennessee State University

Midwestern State University
 Minnesota State University-Mankato
 Mississippi College
 Monmouth University
 Montana Technological University
 Mount Vernon Nazarene University
 Murray State University
 Muskingum University
 Navajo Technical University
 New Mexico Institute of Mining and
 Technology
 Norfolk State University
 North Carolina State University at Raleigh
 Northern Arizona University
 Northern Illinois University
 Northwest Nazarene University
 Norwich University
 Oklahoma Christian University
 Olivet Nazarene University
 Oral Roberts University
 Pace University
 Prairie View A & M University
 Purdue University Fort Wayne
 Purdue University Northwest
 Purdue University-Main Campus
 Quinnipiac University
 Rice University
 Robert Morris University
 Rochester Institute of Technology
 Roger Williams University
 Saginaw Valley State University
 Saint Ambrose University
 Saint Francis University
 Saint Martin's University
 San Francisco State University
 Seattle Pacific University
 South Dakota School of Mines and
 Technology
 Southeast Missouri State University
 Southern Arkansas University
 Southern Methodist University
 Southern New Hampshire University
 Southern University and A & M College
 Southern Utah University
 State University of New York at New Paltz
 Stephen F Austin State University
 SUNY Buffalo State
 SUNY College of Environmental Science
 and Forestry
 SUNY Maritime College
 Sweet Briar College
 Tarleton State University
 Tennessee State University
 Texas A & M University-Commerce
 Texas A & M University-Corpus Christi

Texas A & M University-Kingsville
 Texas A&M University-Texarkana
 Texas Christian University
 The University of Tennessee-Chattanooga
 The University of Tennessee-Martin
 The University of Texas at Tyler
 The University of Texas Rio Grande Valley
 The University of West Florida
 Thomas Jefferson University
 Trine University
 Trinity College
 Trinity University
 Tuskegee University
 United States Merchant Marine Academy
 University of Alaska Anchorage
 University of Bridgeport
 University of Central Oklahoma
 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

Grant Crawford
President
Quinnipiac University

Doug Tougaw
Immediate Past President
Valparaiso University

Christi Luks-Patton
President-Elect
Missouri Science & Technology

ASEE Engineering Deans Council Leadership

Sharon Walker
Chair, Engineering Deans Council
Drexel University

Gregory Triplett
Chair, EDC Data Committee
Saint Louis University

ASEE Senior Leadership Team

Ashok Agrawal
Interim 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, 2024

Contents

1	ENGINEERING BACHELOR’S	3
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
2	ENGINEERING MASTER’S	25
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	35
2.2.5	Master’s Enrollment by Race and Ethnicity	35
2.2.6	Master’s Enrollment by Residency	36
3	ENGINEERING DOCTORAL	37
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
4	ENGINEERING FACULTY	50
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
5	ENGINEERING RESEARCH EXPENDITURES	65
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
6	CANADIAN ENGINEERING	67
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
7	ENGINEERING TECHNOLOGY	70
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

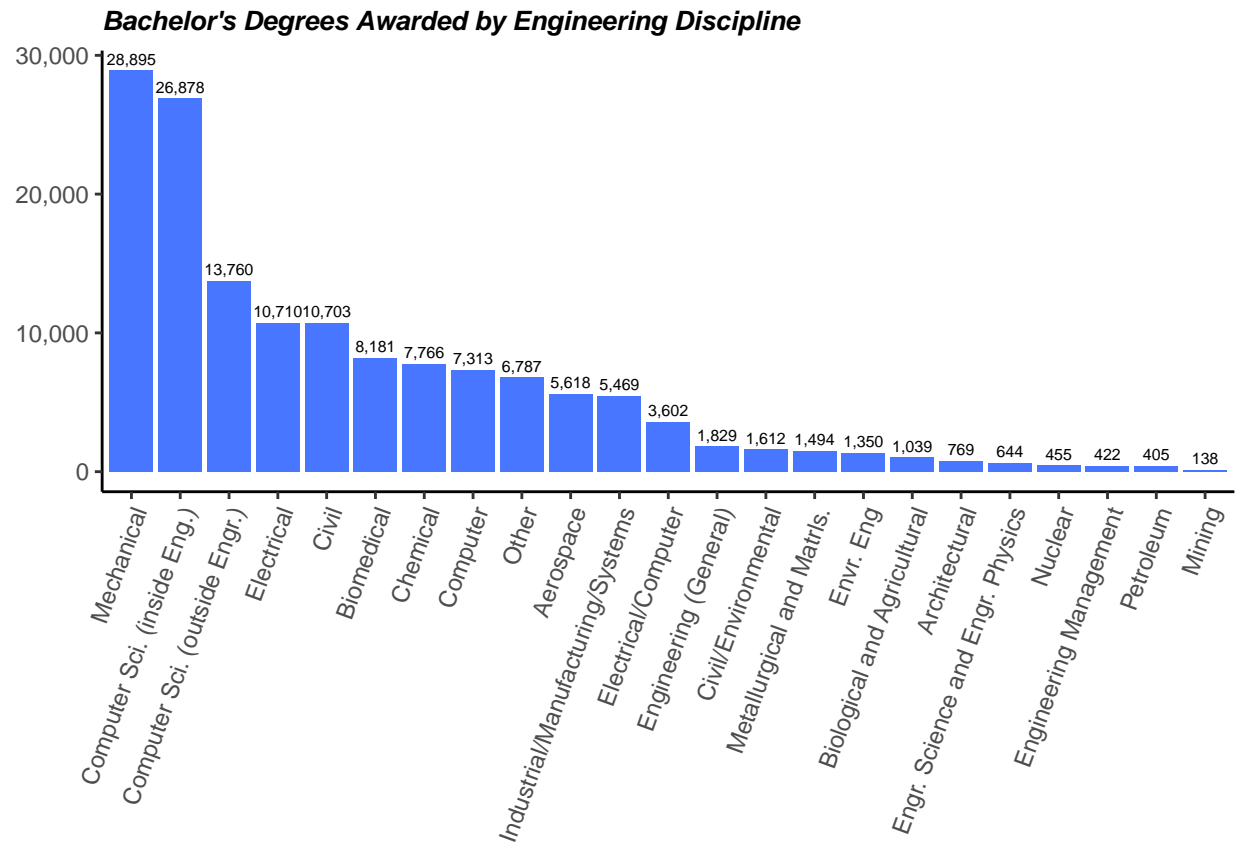
1.1 ENGINEERING BACHELOR’S DEGREES

1.1.1 Total Bachelor’s Degrees Awarded by Engineering Discipline

Table 1: Bachelor’s Degrees by Discipline: 132,079*

Discipline Name	Degrees Awarded
Mechanical	28,895
Computer Sci. (inside Eng.)	26,878
Computer Sci. (outside Engr.)	13,760
Electrical	10,710
Civil	10,703
Biomedical	8,181
Chemical	7,766
Computer	7,313
Other	6,787
Aerospace	5,618
Industrial/Manufacturing/Systems	5,469
Electrical/Computer	3,602
Engineering (General)	1,829
Civil/Environmental	1,612
Metallurgical and Matrls.	1,494
Envr. Eng	1,350
Biological and Agricultural	1,039
Architectural	769
Engr. Science and Engr. Physics	644
Nuclear	455
Engineering Management	422
Petroleum	405
Mining	138

* 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: 23,995

Discipline Name	Degrees Awarded
Mechanical	5,303
Computer Sci. (inside Eng.)	4,532
Civil	2,553
Electrical	2,211
Computer Sci. (outside Engr.)	1,684
Biomedical	1,354
Other	1,324
Computer	1,312
Chemical	1,229
Industrial/Manufacturing/Systems	1,049
Aerospace	846
Electrical/Computer	543
Engineering (General)	365
Civil/Environmental	364
Envr. Eng	214
Metallurgical and Matrls.	197
Architectural	140
Biological and Agricultural	125
Petroleum	114
Engr. Science and Engr. Physics	71
Engineering Management	68
Nuclear	66
Mining	15

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 17.5 % of Total

Discipline Name	Degrees Awarded
Petroleum	28.1%
Civil	23.9%
Civil/Environmental	22.6%
Electrical	20.6%
Engineering (General)	20%
Other	19.5%
Industrial/Manufacturing/Systems	19.2%
Mechanical	18.4%
Architectural	18.2%
Computer	17.9%
Computer Sci. (inside Eng.)	16.9%
Biomedical	16.6%
Engineering Management	16.1%
Envr. Eng	15.9%
Chemical	15.8%
Aerospace	15.1%
Electrical/Computer	15.1%
Nuclear	14.5%
Metallurgical and Matrls.	13.2%
Computer Sci. (outside Engr.)	12.2%
Biological and Agricultural	12%
Engr. Science and Engr. Physics	11%
Mining	10.9%

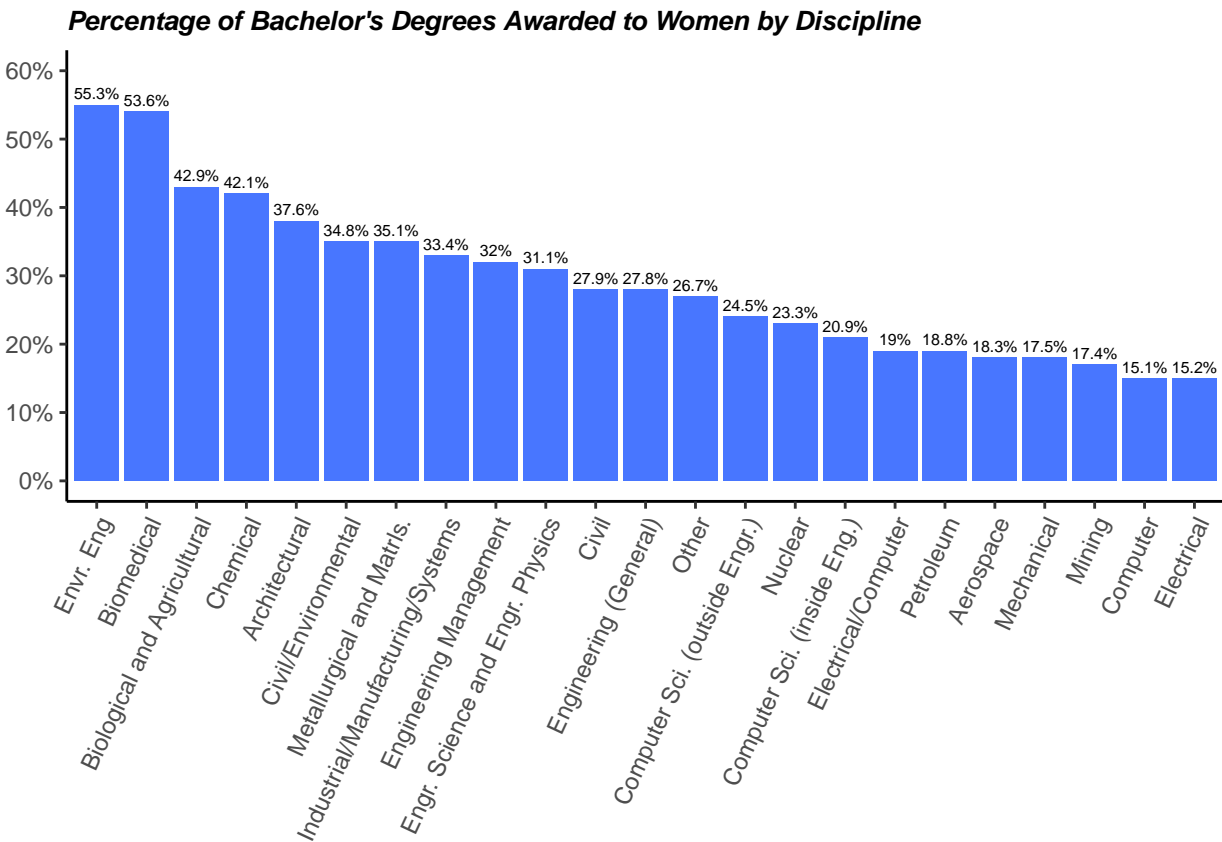
1.1.4 Percentage of Bachelor’s Degrees Awarded to Women by Discipline

Table 4: Percentage of Bachelor’s Degrees Awarded to Women by Discipline 25 % of Total

Discipline Name	Percent Women
Envr. Eng	55.3%
Biomedical	53.6%
Biological and Agricultural	42.9%
Chemical	42.1%
Architectural	37.6%
Metallurgical and Matrls.	35.1%
Civil/Environmental	34.8%
Industrial/Manufacturing/Systems	33.4%
Engineering Management	32%
Engr. Science and Engr. Physics	31.1%

Table 4: Percentage of Bachelor’s Degrees Awarded to Women by Discipline 25 % of Total (*continued*)

Discipline Name	Percent Women
Civil	27.9%
Engineering (General)	27.8%
Other	26.7%
Computer Sci. (outside Engr.)	24.5%
Nuclear	23.3%
Computer Sci. (inside Eng.)	20.9%
Electrical/Computer	19%
Petroleum	18.8%
Aerospace	18.3%
Mechanical	17.5%
Mining	17.4%
Electrical	15.2%
Computer	15.1%



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	3,257
2	Purdue University	2,948
3	Texas A&M University	2,820
4	Arizona State University	2,463
5	University of Michigan	2,437
6	University of Illinois at Urbana-Champaign	2,237
7	Virginia Polytechnic Institute and State University	2,064
8	Oregon State University	2,048
9	The Pennsylvania State University	2,027
10	University of Central Florida	2,016
11	University of California, Berkeley	2,011
12	The Ohio State University	1,928
13	University of Wisconsin-Madison	1,903
14	University of Maryland, College Park	1,873
15	North Carolina State University	1,798
16	University of Florida	1,724
17	The University of Texas at Austin	1,716
18	University of California, Irvine	1,713
19	Florida International University	1,688
20	Northeastern University	1,603
21	Iowa State University	1,518
22	University of Washington in Seattle	1,476
23	The University of Texas at Dallas	1,471
24	University of California, San Diego	1,459
25	California Polytechnic State University, San Luis Obispo	1,324
26	University of Colorado Boulder	1,271
27	North Carolina State University at Raleigh	1,253
28	George Mason University	1,222
29	University of Minnesota -Twin Cities	1,210

Table 5: Institutions Awarding the Highest Number of Engineering Bachelor’s Degrees *(continued)*

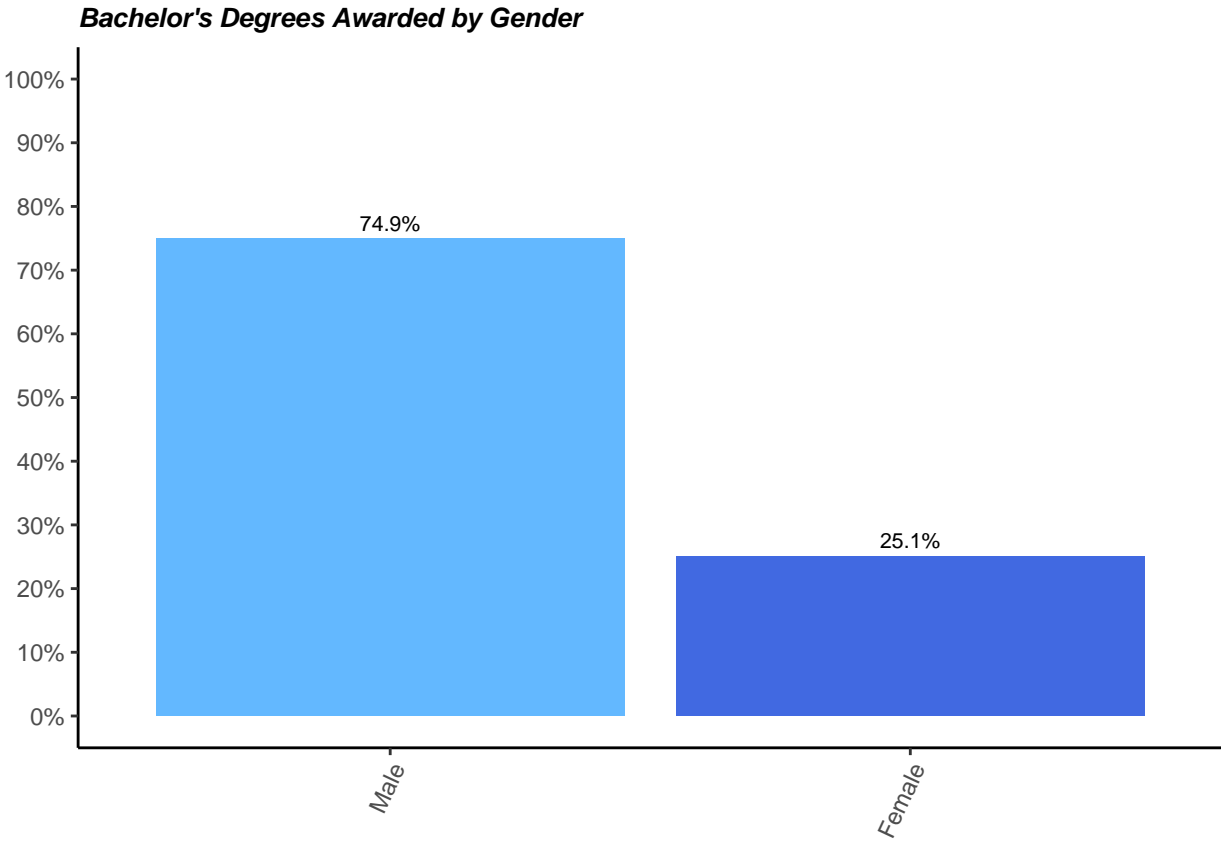
No	Institutions	Degrees Awarded
30	Colorado School of Mines	1,199
31	California State University, Long Beach	1,168
32	Stony Brook University	1,130
33	New Jersey Institute of Technology	1,129
34	Mississippi State University	1,121
35	University of North Carolina at Charlotte	1,118
36	University of California, Los Angeles	1,110
37	Clemson University	1,087
38	University of California-Santa Cruz	1,059
39	Michigan State University	1,058
40	University at Buffalo, SUNY	1,043
41	University of Virginia	1,035
42	The University of Texas at San Antonio	1,012
43	Louisiana State University	1,002
44	University of Massachusetts Amherst	999
45	Auburn University	973
46	Worcester Polytechnic Institute	957
47	Missouri University of Science and Technology	950
48	University of South Florida	944
49	Texas Tech University	845
50	University of Southern California	843

* 395 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%

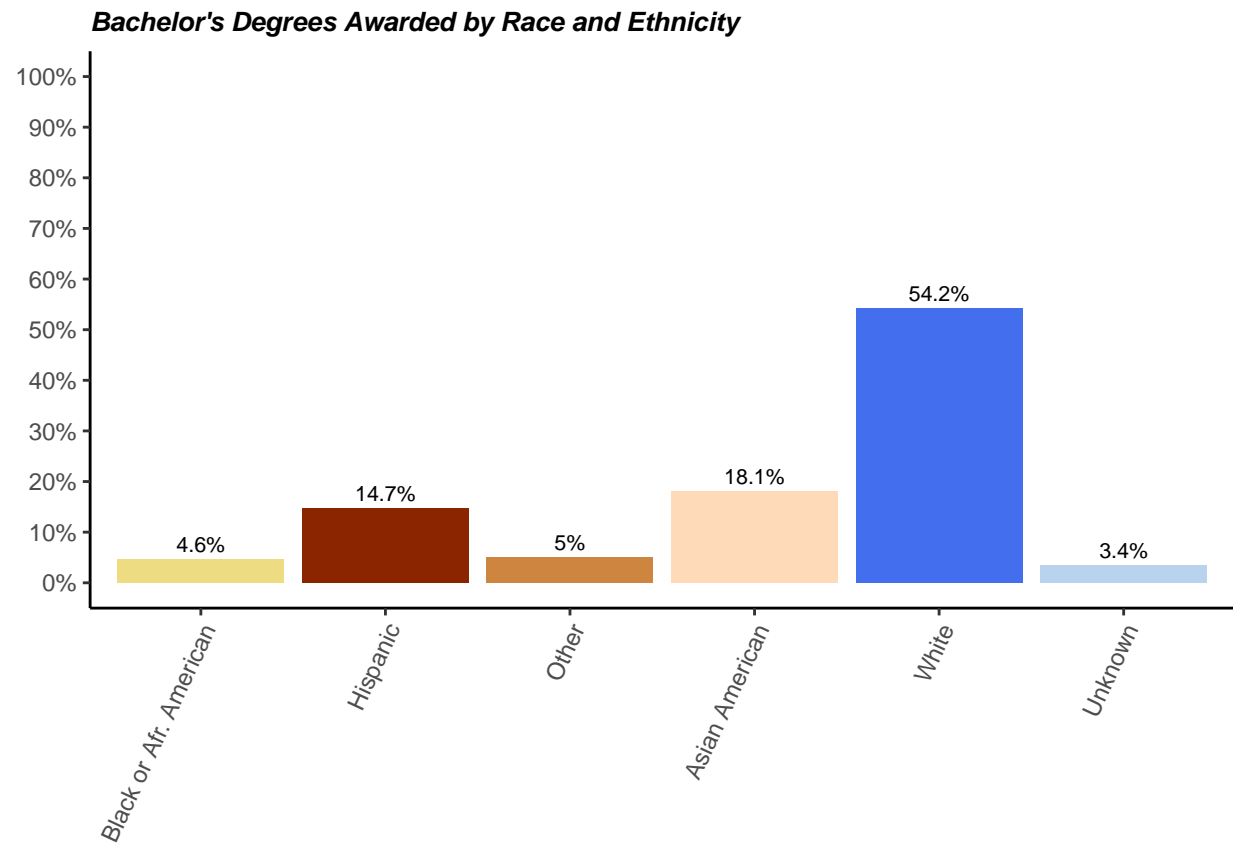


1.1.7 Bachelor’s Degrees Awarded by Race and Ethnicity

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%

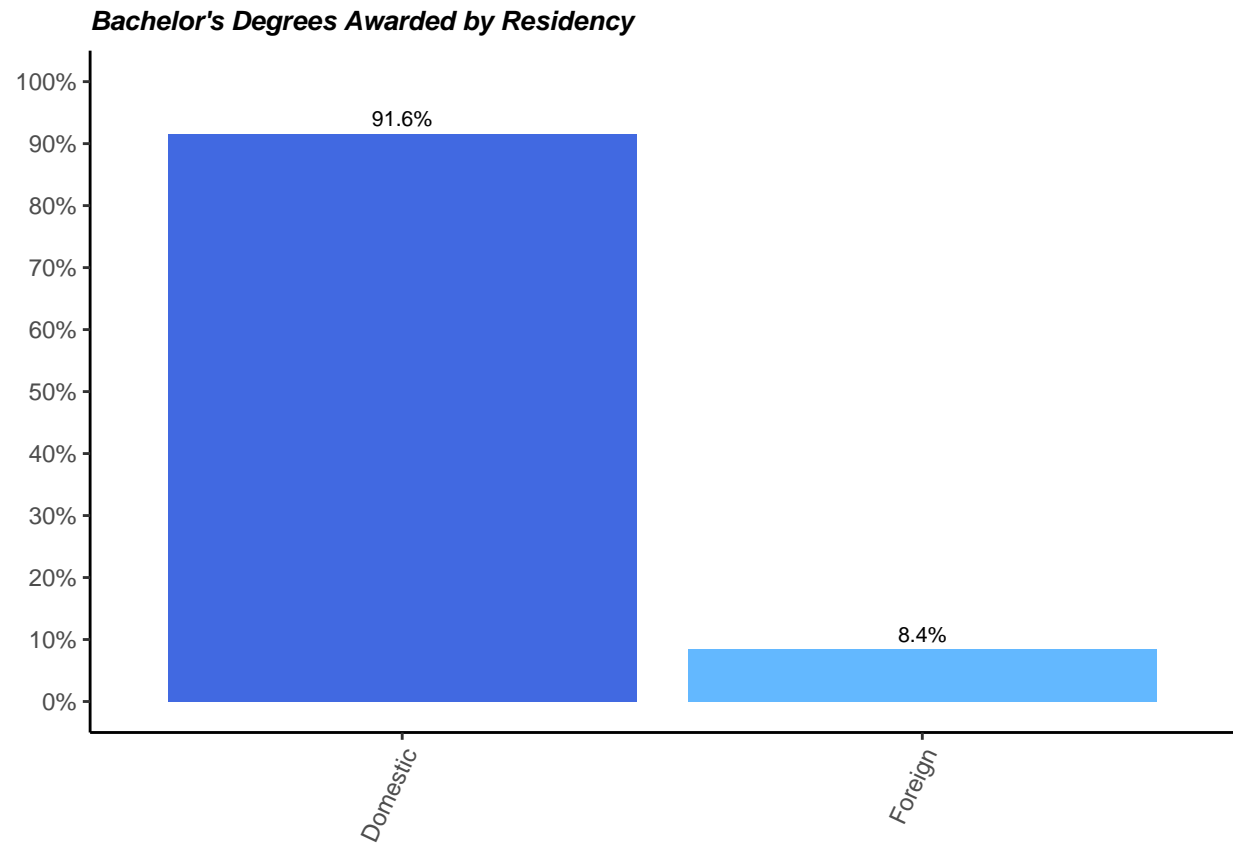
*Data on ethnicity does not include foreign nationals. American Indian/Alaska Native (0.3%), Native Hawaiian/Other Pacific Islander(0.1%) and Multiracial (4.6%) are combined under Other.



1.1.8 Bachelor’s Degrees Awarded by Residency

Table 8: Bachelor’s Degrees Awarded by Residency

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

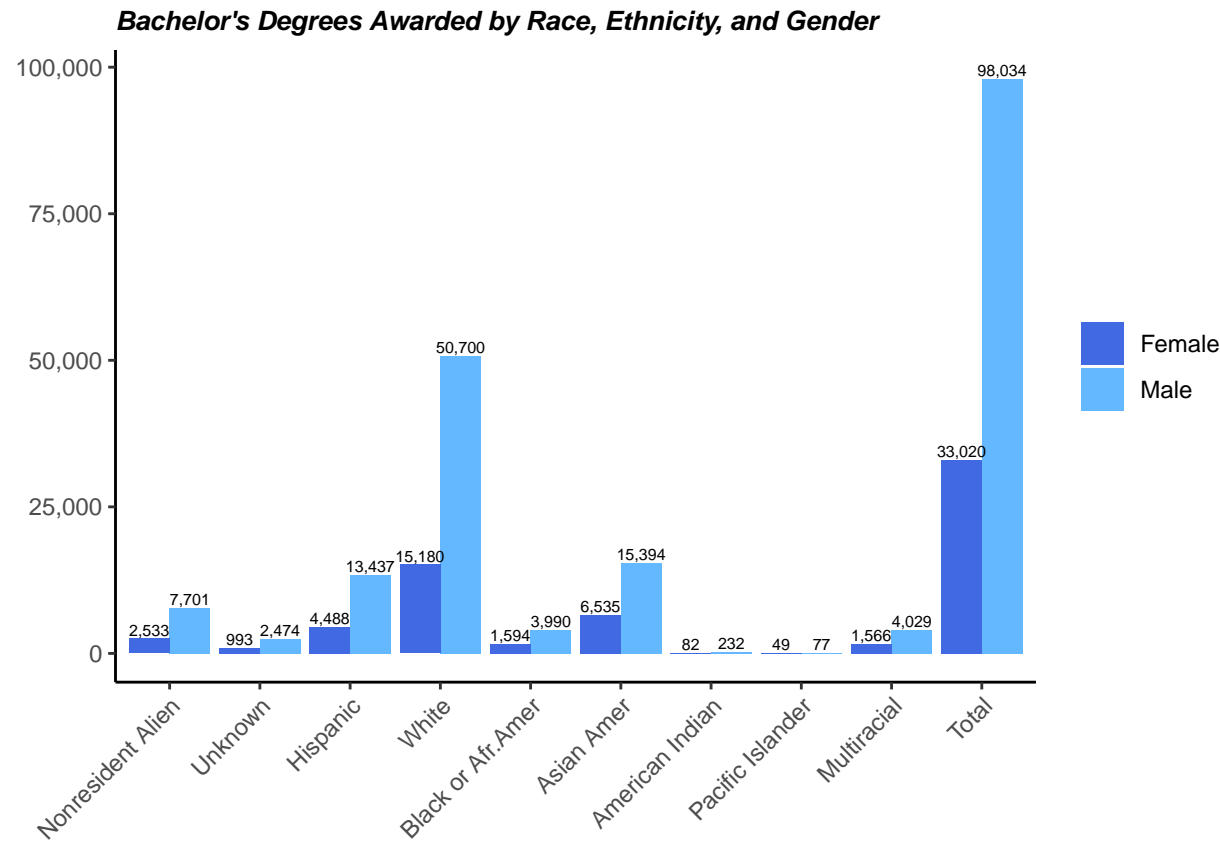


1.1.9 Bachelor’s Degrees Awarded by Race, Ethnicity and Gender

Table 9: Bachelor’s Degrees Awarded by Race, Ethnicity, and Gender 132,079*

Ethnicity	Degrees Awarded
Nonresident Alien Male	7,701
Nonresident Alien Female	2,533
Unknown Male	2,474
Unknown Female	993
Hispanic Male	13,437
Hispanic Female	4,488
White Male	50,700
White Female	15,180
Black or Afr. American Male	3,990
Black or Afr. American Female	1,594
Asian American Male	15,394
Asian American Female	6,535
American Indian Male	232
American Indian Female	82
Native Hawaiian/Other Pacific Islander Male	77
Native Hawaiian/Other Pacific Islander Female	49
Multiracial Male	4,029
Multiracial Female	1,566
Total Male	98,034
Total Female	33,020

* Total degree includes 287 total Non binary graduates and 762 total Other Gender graduates.
* Includes 432 male and195 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	1,333
2	Texas A&M University	695
3	University of Central Florida	662
4	University of Puerto Rico, Mayaguez Campus	622
5	The University of Texas at San Antonio	603
6	Arizona State University	544
7	University of Florida	496
8	The University of Texas at El Paso	492
9	California State University, Long Beach	482
10	Georgia Institute of Technology	392
11	The University of Texas at Austin	380
12	The University of Texas at Arlington	337
13	New Jersey Institute of Technology	322
14	Texas Tech University	309
15	The University of Texas Rio Grande Valley	304
16	University of California, Berkeley	278
17	Kennesaw State University	277
18	Virginia Polytechnic Institute and State University	265

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

No	Institutions	Degrees Awarded
19	University of California, Irvine	262
20	Oregon State University	261
21	University of Maryland, College Park	253
22	California Polytechnic State University, San Luis Obispo	245
22	The University of Texas at Dallas	245
24	FAMU-FSU College of Engineering	242
25	University of North Carolina at Charlotte	239
26	George Mason University	233
27	University of Houston	227
28	University of Illinois at Urbana-Champaign	224
29	University of California, San Diego	223
30	University of California, Riverside	214
31	San Diego State University	207
31	University of South Florida	207
33	University of California, Merced	193
33	University of Maryland, Baltimore County	193
35	Northeastern University	191
36	Purdue University	186
37	North Carolina State University	184
37	The Ohio State University	184
39	University of Michigan	182
40	University of California, Davis	168
41	University of California-Santa Cruz	167
41	University of Nevada, Las Vegas	167
43	Louisiana State University	163
44	Mississippi State University	162
45	Stanford University	160
46	The Pennsylvania State University	156
47	University of Illinois at Chicago	154
48	Rutgers, The State University of New Jersey, School of Engineering	152
48	University of Colorado Boulder	152
50	University of Connecticut	147

* 395 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	999
2	Purdue University	742
3	University of Michigan	706
4	Texas A&M University	686
5	University of California, Berkeley	602
6	University of Illinois at Urbana-Champaign	540
7	The University of Texas at Austin	526
8	Northeastern University	521
9	University of Florida	514
10	University of Wisconsin-Madison	485
11	The Pennsylvania State University	484
12	Arizona State University	482
13	North Carolina State University	476
14	University of Washington in Seattle	462
15	Virginia Polytechnic Institute and State University	460
16	The Ohio State University	459
17	University of California, Irvine	439
18	Oregon State University	422
19	University of Maryland, College Park	420
20	University of Central Florida	409
21	Cornell University	381
22	University of Colorado Boulder	369
23	University of Virginia	365
24	California Polytechnic State University, San Luis Obispo	359
25	Colorado School of Mines	357
25	University of California, San Diego	357
27	Florida International University	356
28	North Carolina State University at Raleigh	345
29	University of Southern California	330
30	University of Minnesota -Twin Cities	315
31	The University of Texas at San Antonio	307
32	Worcester Polytechnic Institute	306
33	The University of Texas at Dallas	301
34	Stanford University	300
35	George Mason University	292
36	Carnegie Mellon University	287
37	University of California, Los Angeles	281
38	Stony Brook University	271
39	Michigan State University	261

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

No	Institutions	Degrees Awarded
40	Clemson University	253
41	Iowa State University	251
42	Fu Foundation School of Engineering and Applied Science - Columbia University	244
43	New Jersey Institute of Technology	235
44	California State University, Long Beach	233
45	Mississippi State University	232
46	University of California, Davis	231
47	Boston University	230
48	University of Massachusetts Amherst	226
49	The Johns Hopkins University	221
50	University of Pittsburgh	220

* 395 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	Hampton University	100%
1	Navajo Technical University	100%
3	University of Puerto Rico, Mayaguez Campus	99.2%
4	Tuskegee University	96%
5	Alabama A & M University	95.3%
6	Jackson State University	94.3%
7	Texas A & M International University	90.9%
8	The University of Texas Rio Grande Valley	90.7%
9	California State University-San Bernardino	87.5%
10	The University of Texas at El Paso	87.2%
11	Prairie View A & M University	85.2%
12	Florida International University	79%
13	Central State University	76.5%
14	Norfolk State University	71.4%
15	California State University-Bakersfield	69.1%
16	University of Maryland Eastern Shore	68.8%
17	St. Mary's University	68.2%
18	University of Texas of the Permian Basin	62.9%
19	The University of Texas at San Antonio	59.6%
20	Tennessee State University	59.5%
21	University of the District of Columbia	58.8%
22	Benedict College	58.3%
23	California State University-Fresno	56.8%
24	Howard University	56.3%
25	Texas Southern University	55.2%
26	University of California, Merced	55.1%
27	Angelo State University	53.6%
28	Metropolitan State University of Denver	52.6%
28	Texas A & M University-Corpus Christi	52.6%
30	Texas State University	52.3%
31	Bethune-Cookman University	50%
31	Vaughn College of Aeronautics and Technology	50%
33	University of Bridgeport	47.1%
34	Lamar University	46.5%
35	Florida Atlantic University	45.7%
36	University of Houston-Clear Lake	45.3%
37	National University	45%
38	San Francisco State University	42.6%
39	Fairleigh Dickinson University-Metropolitan Campus	42.4%
40	New Mexico Institute of Mining and Technology	41.5%
41	University of Houston	41.3%
42	California State University, Long Beach	41.3%
43	The University of Texas at Arlington	41%
44	Southwestern Oklahoma State University	40%
45	University of Miami	39.9%
46	University of Nevada, Las Vegas	38.7%
47	The University of New Mexico	38.3%
48	Florida Gulf Coast University	37.4%
49	Harvey Mudd College	37.1%
50	The University of Texas at Tyler	37.1%

* 395 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	Smith College	100%
1	Sweet Briar College	100%
1	Xavier University	100%
4	College of Charleston	80%
5	Massachusetts Institute of Technology	75%
6	University of South Dakota	70%
7	Brown University	69.4%
8	Loyola University Chicago	66.7%
8	University of North Carolina at Chapel Hill	66.7%
10	Central State University	64.7%
11	University of Wisconsin-Eau Claire	64%
12	Pittsburg State University	63%
13	Thomas Jefferson University	52.4%
14	Cornell University	45.8%
15	Michigan Technological University	44.9%
16	Fu Foundation School of Engineering and Applied Science - Columbia University	44.2%
17	Tuskegee University	44%
18	Princeton University	43.7%
19	Tufts University	43.7%
20	Harvey Mudd College	41.9%

* 395 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	Florida International University	189
2	Georgia Institute of Technology	164
3	University of Maryland, Baltimore County	153
4	Kennesaw State University	145
5	University of Maryland, College Park	142
6	The Ohio State University	107
7	George Mason University	105
8	University of Central Florida	102
9	Mississippi State University	100
10	University of North Carolina at Charlotte	99
11	Howard University	97
12	New Jersey Institute of Technology	91
12	Virginia Polytechnic Institute and State University	91
14	Prairie View A & M University	89
15	FAMU-FSU College of Engineering	88
16	Louisiana State University	84
17	University of South Carolina	77
18	Arizona State University	70
19	University of Florida	69
20	The University of Texas at San Antonio	67

* 395 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	Georgia Institute of Technology	1,070
2	University of California, Berkeley	1,036
3	University of California, Irvine	834
4	University of California, San Diego	833
5	University of Illinois at Urbana-Champaign	699
6	The University of Texas at Austin	667
7	The University of Texas at Dallas	659
8	University of Maryland, College Park	648
9	University of Michigan	612
10	Purdue University	593
11	University of Washington in Seattle	552
12	Stony Brook University	546
13	University of California, Los Angeles	517
14	Texas A&M University	501
15	University of California-Santa Cruz	484
16	George Mason University	450
17	Northeastern University	414
18	California State University, Long Beach	377
19	Virginia Polytechnic Institute and State University	363
20	Arizona State University	349

* 395 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	1,143
2	Texas A&M University	631
3	University of Puerto Rico, Mayaguez Campus	622
4	University of Central Florida	557
5	The University of Texas at San Antonio	533
6	The University of Texas at El Paso	482
7	Arizona State University	457
8	California State University, Long Beach	455
9	University of Florida	422
10	The University of Texas at Austin	339
11	The University of Texas Rio Grande Valley	304
12	The University of Texas at Arlington	281
13	Texas Tech University	246
14	University of California, Irvine	244
15	California Polytechnic State University, San Luis Obispo	232
16	New Jersey Institute of Technology	228
17	Georgia Institute of Technology	227
17	Oregon State University	227
19	University of California, Berkeley	225
20	University of California, Riverside	202

* 395 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	Embry Riddle Aeronautical University-Daytona Beach	327
2	Purdue University	323
3	Georgia Institute of Technology	248
4	University of Central Florida	226
5	Texas A&M University	207
6	University of Colorado Boulder	206
7	Virginia Polytechnic Institute and State University	202
8	Iowa State University	174
9	The Pennsylvania State University	150
10	Embry Riddle Aeronautical University, Prescott	149
11	University of Florida	143
12	University of Illinois at Urbana-Champaign	141
13	The University of Texas at Austin	137
14	University of Maryland, College Park	130
15	University of Michigan	128
16	California State University, Long Beach	121
17	The University of Alabama in Huntsville	116
18	Arizona State University	109
19	San Diego State University	104
20	North Carolina State University at Raleigh	101

* 62 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	275
2	North Carolina State University at Raleigh	161
2	University of California, San Diego	161
4	North Carolina State University	159
5	Texas A&M University	151
6	University of Michigan	150
7	Purdue University	148
8	The Pennsylvania State University	140
9	Clemson University	134
9	Northeastern University	134
11	Boston University	122
11	University of California, Irvine	122
13	University of California, Berkeley	120
14	Arizona State University	115
14	University of Wisconsin-Madison	115
16	Worcester Polytechnic Institute	110
17	University of Virginia	105
18	University of Florida	103
19	The Johns Hopkins University	102
19	University of Pittsburgh	102

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

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

* 156 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	214
2	The Ohio State University	187
3	North Carolina State University at Raleigh	170
4	North Carolina State University	166
5	University of Illinois at Urbana-Champaign	145
6	Georgia Institute of Technology	144
7	Purdue University	137
7	The University of Texas at Austin	137
9	The Pennsylvania State University	130
10	The University of Alabama	123
11	University of California, Berkeley	121
12	University of Florida	117
13	University of Wisconsin-Madison	115
14	Colorado School of Mines	112
15	University of Cincinnati	109
16	University of Minnesota -Twin Cities	108
17	University of California, San Diego	95
18	Northeastern University	93
18	University of Puerto Rico, Mayaguez Campus	93
20	Arizona State University	89
21	Oregon State University	88
22	Missouri University of Science and Technology	85
23	University of Delaware	82
23	University of Pittsburgh	82
25	University of Michigan	81
25	University of Washington in Seattle	81
27	Michigan State University	79
28	Michigan Technological University	78
28	University of Houston	78
28	Virginia Polytechnic Institute and State University	78
31	NYU Tandon School of Engineering	77
31	University of Kentucky	77
33	Auburn University	76
34	Iowa State University	73
34	University of Tennessee, Knoxville	73
36	Brigham Young University	72
36	Louisiana State University	72
38	University of Kansas	71
39	University of Arizona	67
39	University of California, Los Angeles	67
41	Mississippi State University	66
42	Colorado State University	65
43	The Johns Hopkins University	64
44	University of California, Davis	63
45	Rutgers, The State University of New Jersey, School of Engineering	62
45	University of Connecticut	62
47	University of Notre Dame	61
47	University of Utah	61
49	San Jose State University	59
49	University of Illinois at Chicago	59

* 153 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	The University of Texas at Arlington	249
2	Texas A&M University	231
3	Virginia Polytechnic Institute and State University	215
4	Purdue University	190
5	University of Illinois at Urbana-Champaign	189
6	New Jersey Institute of Technology	164
6	The Pennsylvania State University	164
8	Mississippi State University	163
9	Clemson University	149
10	University of Central Florida	145
11	San Diego State University	138
12	California State University, Long Beach	132
13	North Carolina State University	128

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

No	Institutions	Degrees Awarded
14	California Polytechnic State University, San Luis Obispo	125
15	FAMU-FSU College of Engineering	122
15	University at Buffalo, SUNY	122
17	Florida International University	121
18	The University of Texas at Austin	118
18	University of Maryland, College Park	118
20	The University of Alabama	117
21	Auburn University	115
22	Georgia Institute of Technology	112
23	Missouri University of Science and Technology	111
24	University of North Carolina at Charlotte	110
25	The University of Texas Rio Grande Valley	105
25	University of Florida	105
27	University of California, Davis	104
28	University of California, San Diego	101
29	Kennesaw State University	99
29	Oregon State University	99
31	The University of Texas at El Paso	98
32	University of Massachusetts Amherst	97
33	Iowa State University	96
33	University of Tennessee, Knoxville	96
35	University of Delaware	91
36	The University of Texas at San Antonio	89
36	University of Wisconsin-Madison	89
38	Michigan State University	88
39	Washington State University	86
40	Northeastern University	84
40	Western Michigan University	84
42	California State University-Fresno	81
42	University of South Florida	81
44	Louisiana State University	77
45	Brigham Young University	76
46	University of Wisconsin, Platteville	75
47	University of Cincinnati	74
47	University of Missouri	74
49	University of Houston	71
49	University of Nebraska, Lincoln	71

* 221 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	343
2	Texas A&M University	265
3	Purdue University	257
4	Virginia Polytechnic Institute and State University	206
5	Clemson University	161
6	Arizona State University	160
7	Oregon State University	153
8	University of Michigan	141
9	The Pennsylvania State University	139
10	University of Illinois at Urbana-Champaign	135
11	The Ohio State University	114
12	Mississippi State University	111
13	University of Central Florida	110
14	University of Wisconsin-Madison	105
15	California Polytechnic State University, San Luis Obispo	102
15	Lehigh University	102
17	Auburn University	97
18	San Jose State University	95
19	University of Florida	93
19	University of Puerto Rico, Mayaguez Campus	93
21	North Carolina State University at Raleigh	92
22	University of Pittsburgh	84
23	Iowa State University	76
24	Princeton University	72
25	Cornell University	68
25	University of South Florida	68
27	Northwestern University	65
28	Stanford University	63
29	United States Military Academy	62
30	University of Virginia	61
31	University of Arizona	57
31	University of Minnesota -Twin Cities	57
33	University of California, Berkeley	53
33	University of Southern California	53

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

No	Institutions	Degrees Awarded
35	University of Tennessee, Knoxville	52
36	The State University of New York at Binghamton	50
37	The University of Alabama in Huntsville	49
38	Kansas State University	48
38	The University of Texas at Arlington	48
40	Texas Tech University	46
41	The University of Iowa	45
42	Louisiana State University	44
43	University of Oklahoma, Gallogly College of Engineering	42
44	Rutgers, The State University of New Jersey, School of Engineering	40
44	The University of Texas at El Paso	40
44	West Virginia University	40
47	Brigham Young University	39
48	FAMU-FSU College of Engineering	36
48	United States Merchant Marine Academy	36
50	University at Buffalo, SUNY	34

* 111 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	510
2	Texas A&M University	477
3	Georgia Institute of Technology	473
4	The Pennsylvania State University	385
5	University of Central Florida	376
6	Iowa State University	369
7	University of Colorado Boulder	352
8	Virginia Polytechnic Institute and State University	351
9	Oregon State University	342
10	Northeastern University	322
11	University at Buffalo, SUNY	313
12	Arizona State University	306
13	Colorado School of Mines	302
14	University of Maryland, College Park	301
15	The Ohio State University	297
16	Texas Tech University	293
17	North Carolina State University at Raleigh	290
18	University of Illinois at Urbana-Champaign	289
19	California Polytechnic State University, San Luis Obispo	288
20	University of Michigan	278
21	The University of Texas at Austin	276
22	University of Florida	269
23	Michigan State University	266
24	Mississippi State University	260
25	University of Wisconsin-Madison	254
26	California State University, Long Beach	247
27	Oklahoma State University	244
28	Washington State University	241
29	The University of Alabama	231
30	Clemson University	227
31	Kennesaw State University	212
32	University of California, Berkeley	211
32	Worcester Polytechnic Institute	211
34	University of California, Irvine	208
35	Colorado State University	203
36	University of Connecticut	200
37	Auburn University	197
37	University of North Carolina at Charlotte	197
39	Brigham Young University	196
40	University of Houston	190
41	University of California, Los Angeles	188
41	Utah State University	188
43	University of Georgia	187
44	San Diego State University	185
44	University of Washington in Seattle	185
46	Missouri University of Science and Technology	183
47	University of California, San Diego	180
48	New Jersey Institute of Technology	179
49	University of California, Davis	177
49	University of Dayton	177

* 291 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	347
2	Texas A&M University	321
3	University of Illinois at Urbana-Champaign	235
4	Purdue University	212
5	University of California, San Diego	175
6	North Carolina State University at Raleigh	165
7	Western Carolina University	158
8	Georgia Institute of Technology	151
9	University of California, Los Angeles	146
10	University of Central Florida	145
11	Brigham Young University - Idaho	143
12	Mississippi State University	140
12	University of Washington in Seattle	140
14	The Pennsylvania State University	133
15	University of Michigan-Dearborn	121
16	California State University, Long Beach	118
16	The University of Texas at Dallas	118
18	Florida International University	115
19	University of Florida	112
20	Virginia Polytechnic Institute and State University	103
21	University of California, Davis	102
22	Missouri University of Science and Technology	101
22	San Diego State University	101
24	University of Michigan	100
25	Kennesaw State University	99
25	University of Maryland, College Park	99
27	Iowa State University	98
28	University of Cincinnati	97
29	North Carolina State University	96
29	University of Wisconsin-Madison	96
31	Washington State University	94
32	Michigan State University	91
33	University of South Florida	89
34	Colorado School of Mines	87
35	California Polytechnic State University, San Luis Obispo	85
36	Oakland University	84
37	University of California, Irvine	83
38	Stevens Institute of Technology	82
39	The University of Texas at El Paso	81
39	University at Buffalo, SUNY	81
41	University of Puerto Rico, Mayaguez Campus	80
42	Northeastern University	77
43	City College of the City University of New York	73
44	The University of Texas at San Antonio	71
44	University of Oklahoma, Gallogly College of Engineering	71
46	Clemson University	70
46	Rowan University	70
46	University of Houston	70
49	Auburn University	66
49	Oklahoma State University	66

* 261 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	392
2	Purdue University	370
3	University of California, San Diego	208
4	University of California-Santa Cruz	192
5	Virginia Polytechnic Institute and State University	182
6	Georgia Institute of Technology	171
7	Rochester Institute of Technology	159
8	Texas A&M University	158
9	North Carolina State University at Raleigh	151
10	University of Nevada-Reno	136
11	Northeastern University	134
12	University of Central Florida	120
13	University of Michigan	114

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

No	Institutions	Degrees Awarded
14	University of California, Los Angeles	108
14	University of Wisconsin-Madison	108
16	University of California, Irvine	100
17	Florida International University	94
17	University of Maryland, College Park	94
19	University of Florida	91
20	The University of Texas at Dallas	83
21	California Polytechnic State University, San Luis Obispo	81
21	University of California, Santa Barbara	81
23	University of Massachusetts Amherst	76
24	Iowa State University	75
25	Arizona State University	74
26	The University of Texas at San Antonio	72
27	Boston University	70
27	San Diego State University	70
27	The Pennsylvania State University	70
30	Drexel University	68
31	Florida Gulf Coast University	64
32	University of Cincinnati	61
33	University of North Carolina at Charlotte	59
34	The University of Texas Rio Grande Valley	58
34	University of California, Davis	58
36	University of Minnesota -Twin Cities	57
37	Missouri University of Science and Technology	56
37	Rensselaer Polytechnic Institute	56
39	California State University, Long Beach	54
39	New Jersey Institute of Technology	54
41	Clemson University	53
42	University of Pittsburgh	52
43	FAMU-FSU College of Engineering	49
44	Villanova University	48
45	Michigan State University	47
45	Stony Brook University	47
45	The University of Alabama in Huntsville	47
48	NYU Tandon School of Engineering	46
48	University of Virginia	46
50	University of Houston	45

* 202 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	500
2	The University of Texas at Austin	304
3	Rutgers, The State University of New Jersey, School of Engineering	253
4	The Ohio State University	244
5	Carnegie Mellon University	192
6	Iowa State University	184
7	University of Washington in Seattle	171
8	Oregon State University	132
9	Texas Tech University	112
10	Brigham Young University	105
11	The State University of New York at Binghamton	95
12	University of Arizona	94
13	Wayne State University	93
14	Duke University	92
15	Worcester Polytechnic Institute	88
16	University of Southern California	86
17	Cornell University	77
18	Colorado State University	73
18	The University of Iowa	73
20	Utah State University	67

* 41 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	1,222
2	University of California, Irvine	984
3	University of Maryland, College Park	957
4	University of Wisconsin-Madison	877
5	University of California, Berkeley	802
6	Northeastern University	759
7	University of North Carolina at Charlotte	665
8	University of Michigan	582
9	Purdue University	534
10	New Jersey Institute of Technology	526
11	University of Massachusetts Amherst	489
12	The University of Texas at Austin	487
13	Boston University	353
14	The University of Texas at San Antonio	333
15	University of Virginia	324
16	Brigham Young University	308
17	Carnegie Mellon University	281
18	Duke University	274
19	Rensselaer Polytechnic Institute	240
20	FAMU-FSU College of Engineering	237

* 42 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	1,028
2	Florida International University	1,003
3	Oregon State University	977
4	Arizona State University	920
5	University of Central Florida	850
6	University of Michigan	677
7	University of Washington in Seattle	525
8	Virginia Polytechnic Institute and State University	512
9	University of California-Santa Cruz	494
10	The Pennsylvania State University	470
11	University of Minnesota -Twin Cities	440
12	The Ohio State University	416
13	University of California, San Diego	408
14	Texas A&M University	406
15	University of Southern California	397
16	Stony Brook University	393
17	University of California, Riverside	384
18	George Mason University	376
19	North Carolina State University	363
20	University of Illinois at Urbana-Champaign	361
21	University of California, Los Angeles	353
22	Stanford University	341
23	University at Buffalo, SUNY	340
24	University of Florida	336
25	California State University, Long Beach	332
26	University of Maryland, Baltimore County	324
27	Michigan State University	307
28	University of Georgia	304
29	Washington University in St. Louis	298
30	Cornell University	295
30	University of Utah	295
32	University of North Texas	291
33	The University of Texas at Arlington	274
34	Colorado School of Mines	272
35	University of Virginia	270

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

No	Institutions	Degrees Awarded
36	University of Connecticut	264
37	California Polytechnic State University, San Luis Obispo	259
38	Auburn University	256
39	University of Pennsylvania	252
40	University of Colorado Boulder	244
41	University of Illinois at Chicago	233
42	University of South Florida	218
43	Princeton University	213
44	Mississippi State University	211
45	Stevens Institute of Technology	205
46	Yale School of Engineering & Applied Science	202
47	NYU Tandon School of Engineering	199
48	Miami University	195
48	The Johns Hopkins University	195
50	Washington State University	186

* 132 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	206
2	Arizona State University	139
3	Mercer University	101
4	Stanford University	100
5	East Carolina University	91
6	San Jose State University	77
7	James Madison University	76
8	Syracuse University	56
9	Texas Christian University	49
10	Robert Morris University	48
11	Roger Williams University	45
12	Vanderbilt University	42
13	Daytona State College	41
14	Minnesota State University-Mankato	39
15	Elizabethtown College	36
16	North Carolina State University at Raleigh	35
17	Massachusetts Maritime Academy	32
18	Campbell University	30
19	California State University-Bakersfield	28
19	Swarthmore College	28
21	McNeese State University	27
22	Oral Roberts University	26
23	Abilene Christian University	24
23	Bob Jones University	24
23	Geneva College	24
26	Boise State University	21
27	Andrews University	18
28	Hampton University	16
28	Texas A&M University	16
28	University of Maryland Eastern Shore	16
28	Western Carolina University	16
32	Loyola University Chicago	15
32	University of San Diego	15
32	Wentworth Institute of Technology	15
35	Fort Lewis College	14
36	California Polytechnic State University, San Luis Obispo	13
37	Northwest Nazarene University	12
38	Florida International University	11
38	Frostburg State University	11
38	The University of Mississippi	11
38	University of Detroit Mercy	11
42	Cornell College	10
42	Rowan University	10
44	The University of Tennessee-Martin	9
44	University of Hartford	9
46	Central College	8
46	Colorado School of Mines	8
46	Henderson State University	8
46	Stevens Institute of Technology	8
50	Muskingum University	7

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

No	Institutions	Degrees Awarded
* 84 Institutions included		

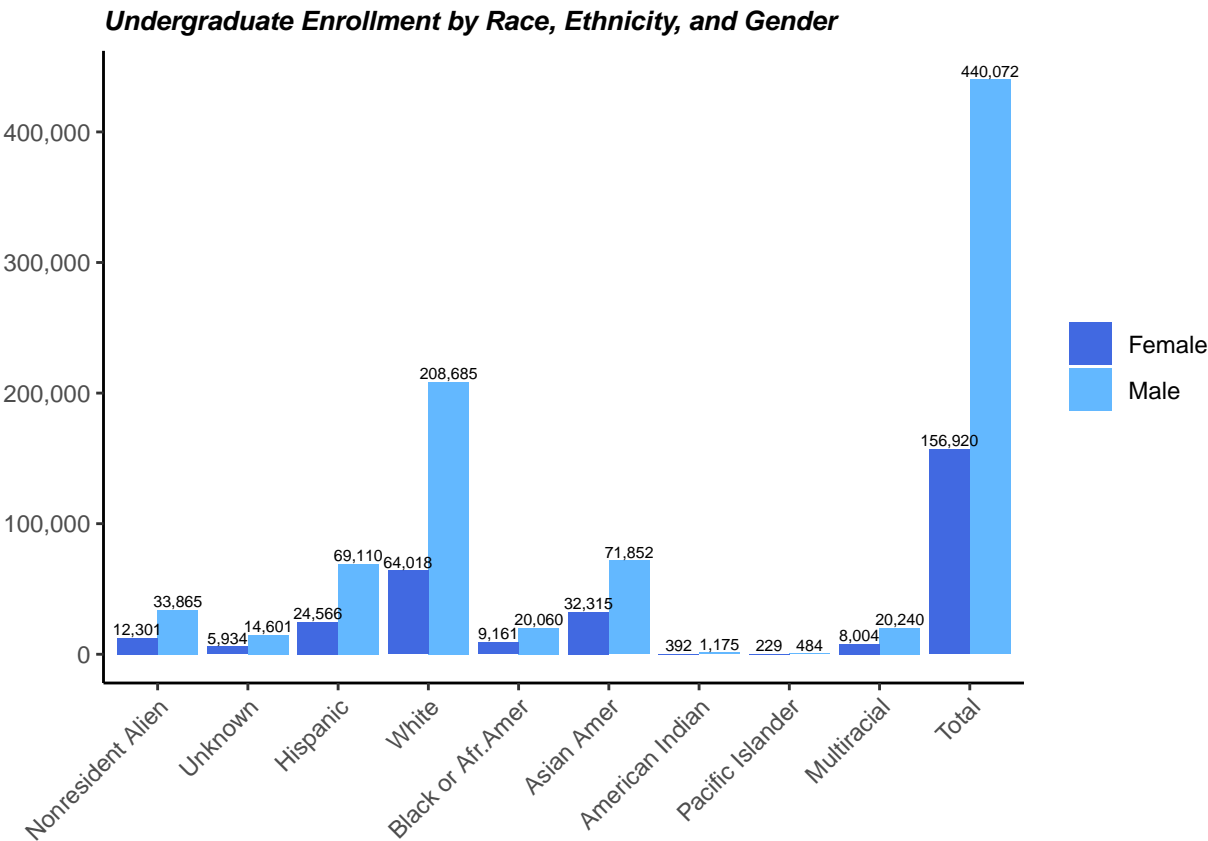
1.2 ENGINEERING UNDERGRADUATE ENROLLMENT, FALL 2023

1.2.1 Undergraduate Enrollment by Race, Ethnicity, and Gender

Table 29: Undergraduate Enrollment Awarded by Race, Ethnicity, and Gender 601,740*

Ethnicity	Enrollments
Nonresident Alien Male	33,865
Nonresident Alien Female	12,301
Unknown Male	14,601
Unknown Female	5,934
Hispanic Male	69,110
Hispanic Female	24,566
White Male	208,685
White Female	64,018
Black or Afr. American Male	20,060
Black or Afr. American Female	9,161
Asian American Male	71,852
Asian American Female	32,315
American Indian Male	1,175
American Indian Female	392
Native Hawaiian/Other Pacific Islander Male	484
Native Hawaiian/Other Pacific Islander Female	229
Multiracial Male	20,240
Multiracial Female	8,004
Total Male	440,072
Total Female	156,920

* Total Enrollment includes is for full time students
* Includes 3,010 male and 1,092 female.



1.2.2 Engineering Undergraduate Enrollment by Institutions

Table 30: Top 50 Engineering Undergraduate Enrollment by Institutions

No	Institutions	Enrollment
1	Arizona State University	18,639
2	Texas A&M University	16,496
3	Purdue University	13,688
4	University of Central Florida	13,329
5	Oregon State University	9,968
6	University of Illinois at Urbana-Champaign	9,815
7	Virginia Polytechnic Institute and State University	9,803
8	The Ohio State University	9,136

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

No	Institutions	Enrollment
9	The Pennsylvania State University	8,843
10	North Carolina State University	8,509
11	Georgia Institute of Technology	8,346
12	George Mason University	8,161
13	University of Florida	7,914
14	The University of Texas at Dallas	7,245
15	Iowa State University	7,242
16	University of Michigan	7,233
17	The University of Texas at Arlington	6,711
18	University of Washington in Seattle	6,434
19	Louisiana State University	6,429
20	California Polytechnic State University, San Luis Obispo	6,407
21	Michigan State University	6,199
22	The University of Texas at Austin	6,197
23	University of Colorado Boulder	6,180
24	Kennesaw State University	6,100
25	Colorado School of Mines	6,020
26	University of California, San Diego	5,994
27	University of South Florida	5,652
28	University of Minnesota -Twin Cities	5,596
29	Auburn University	5,515
30	Clemson University	5,496
31	California State University, Long Beach	5,431
32	University of Cincinnati	5,131
33	University of California-Santa Cruz	5,109
34	University of Wisconsin-Madison	5,009
35	University of Illinois at Chicago	4,992
36	University of Utah	4,952
37	Missouri University of Science and Technology	4,738
38	The University of Alabama	4,734
39	Texas Tech University	4,652
40	University of Georgia	4,612
41	University of Puerto Rico, Mayaguez Campus	4,611
42	University of California, Berkeley	4,523
43	University of Maryland, Baltimore County	4,460
44	University of California, Davis	4,401
45	The University of Texas at El Paso	4,377
46	University of Tennessee, Knoxville	4,344
47	San Jose State University	4,172
48	Mississippi State University	4,146
49	California State University, Sacramento	4,141
50	Rutgers, The State University of New Jersey, School of Engineering	4,113

* Enrollment is full time plus part time students.

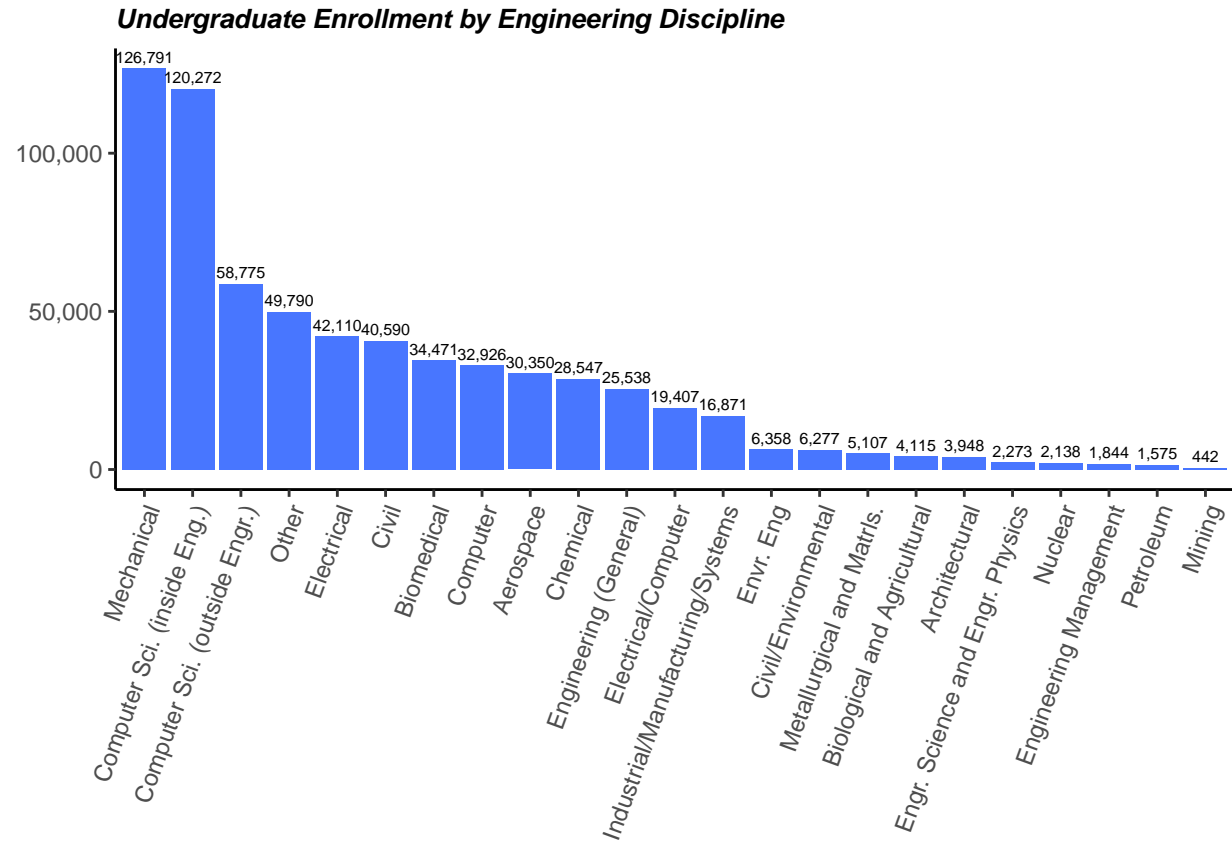
* Some Institutions do not permit formal enrollment in their engineering colleges until the second or third year.

1.2.3 Undergraduate Enrollment by Engineering Discipline

Table 31: Undergraduate Enrollment by Engineering Discipline: 601,740

Discipline Name	Enrollments
Mechanical	126,791
Computer Sci. (inside Eng.)	120,272
Computer Sci. (outside Engr.)	58,775
Other	49,790
Electrical	42,110
Civil	40,590
Biomedical	34,471
Computer	32,926
Aerospace	30,350
Chemical	28,547
Engineering (General)	25,538
Electrical/Computer	19,407
Industrial/Manufacturing/Systems	16,871
Envr. Eng	6,358
Civil/Environmental	6,277
Metallurgical and Matrls.	5,107
Biological and Agricultural	4,115
Architectural	3,948
Engr. Science and Engr. Physics	2,273
Nuclear	2,138
Engineering Management	1,844
Petroleum	1,575
Mining	442

* 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)

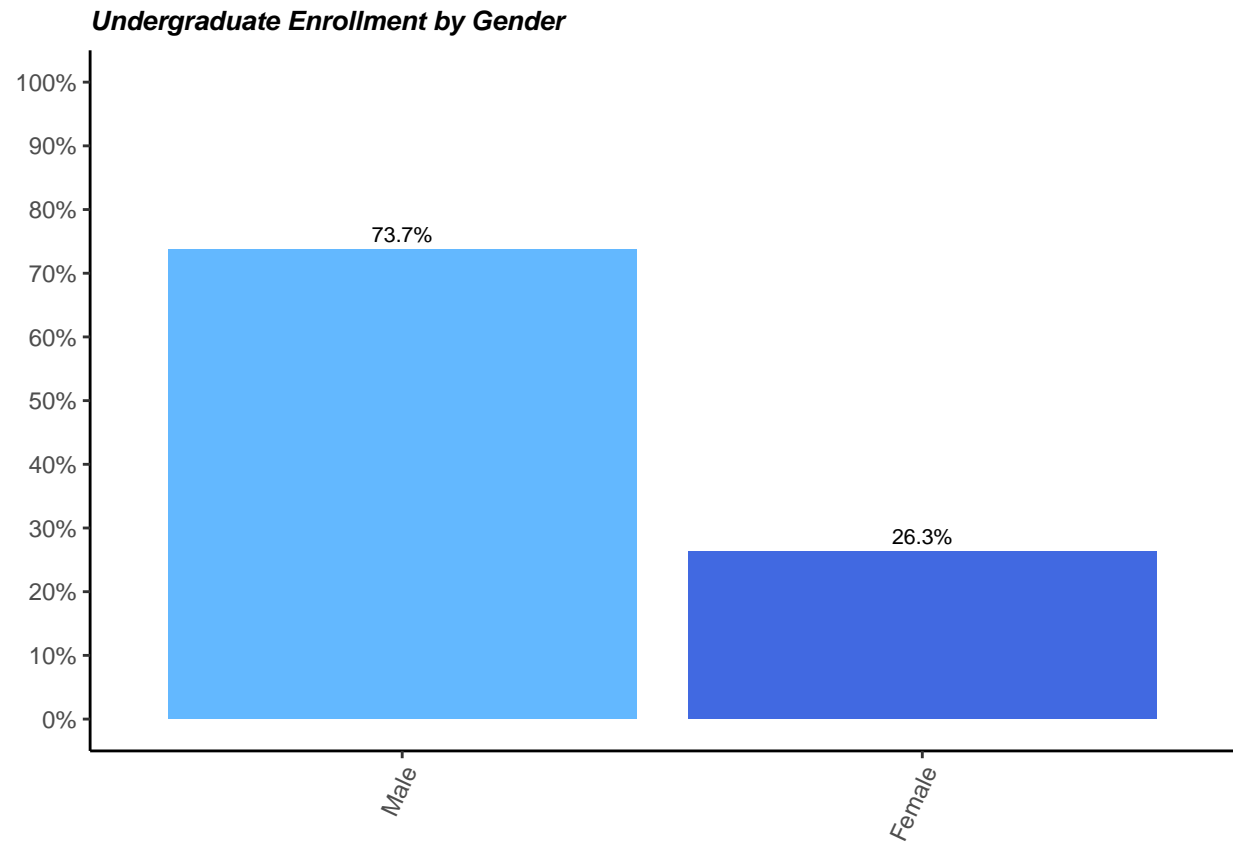
Table 32: Undergraduate Enrollment by Engineering Discipline:(Full time and Part time)

Discipline Name	Full Time	Part Time
Aerospace	30,350	1,713
Architectural	3,948	187
Biological and Agricultural	4,115	149
Biomedical	34,471	1,308
Chemical	28,547	1,940
Civil	40,590	4,057
Civil/Environmental	6,277	483
Computer	32,926	3,001
Computer Sci. (inside Eng.)	120,272	16,118
Electrical	42,110	7,266
Electrical/Computer	19,407	1,117
Engineering (General)	25,538	2,395
Engineering Management	1,844	105
Engr. Science and Engr. Physics	2,273	140
Envr. Eng	6,358	405
Industrial/Manufacturing/Systems	16,871	1,577
Mechanical	126,791	13,369
Metallurgical and Matrls.	5,107	353
Mining	442	56
Nuclear	2,138	107
Other	49,790	4,232
Petroleum	1,575	210

1.2.5 Undergraduate Enrollment by Gender

Table 33: Undergraduate Enrollment by Gender

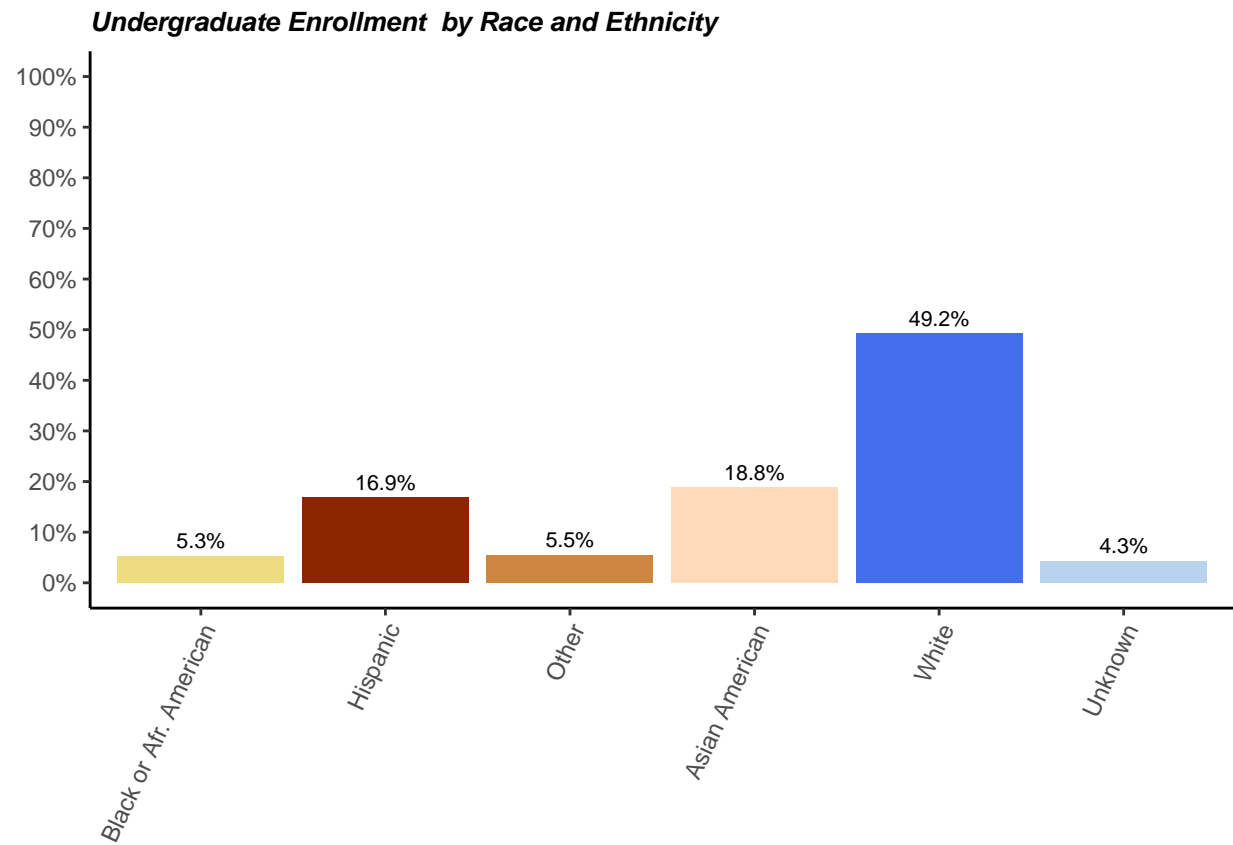
Gender	Percentage
Female	24.6%
Male	75.4%



1.2.6 Undergraduate Enrollment by Race and Ethnicity

Table 34: Undergraduate Enrollment by Race and Ethnicity*

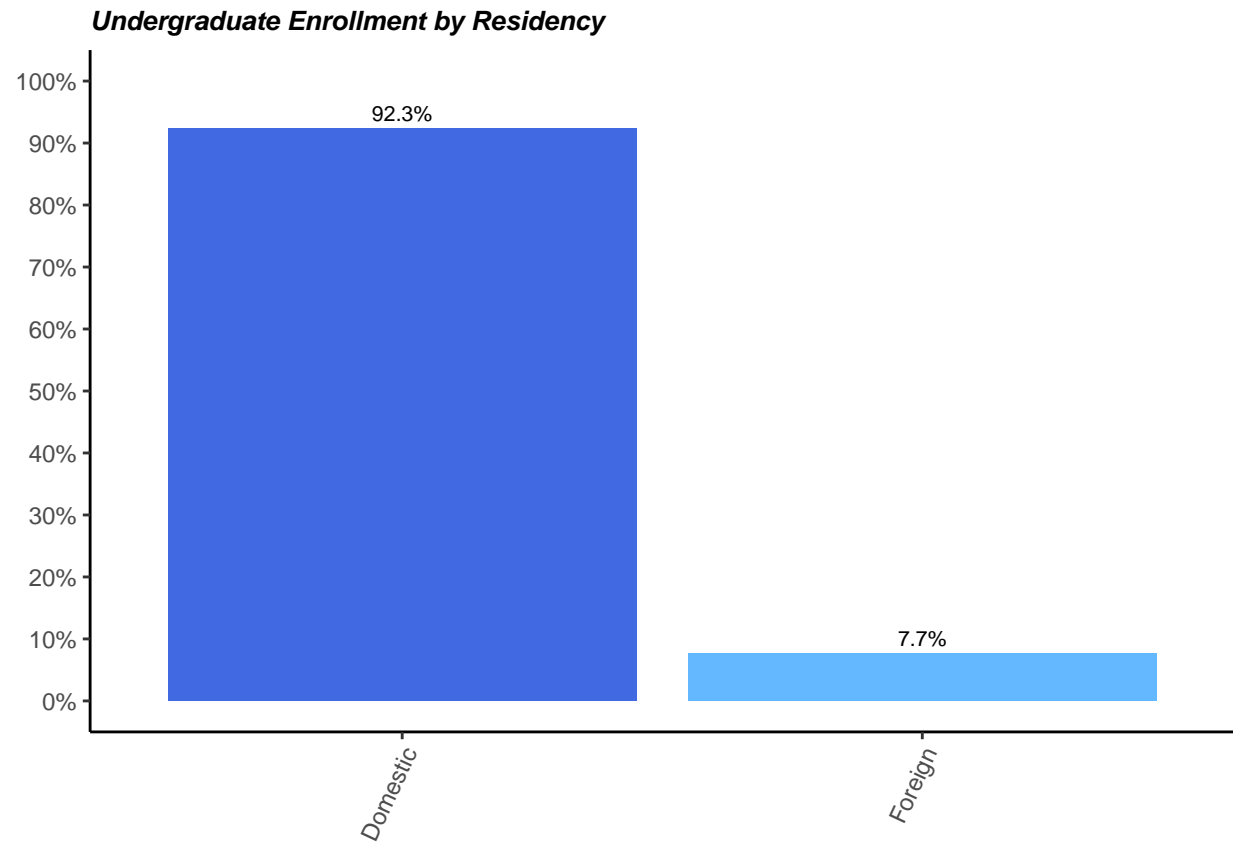
Ethnicity	Percentage
Black or Afr. American	5.4%
Hispanic	15.8%
Other	5%
Asian American	16.1%
White	53.4%
Unknown	4.2%



1.2.7 Undergraduate Enrollment by Residency

Table 35: Undergraduate Enrollment by Residency

Nationality	Percentage
Domestic	92.1%
Foreign	7.9%



2ENGINEERING MASTER’S

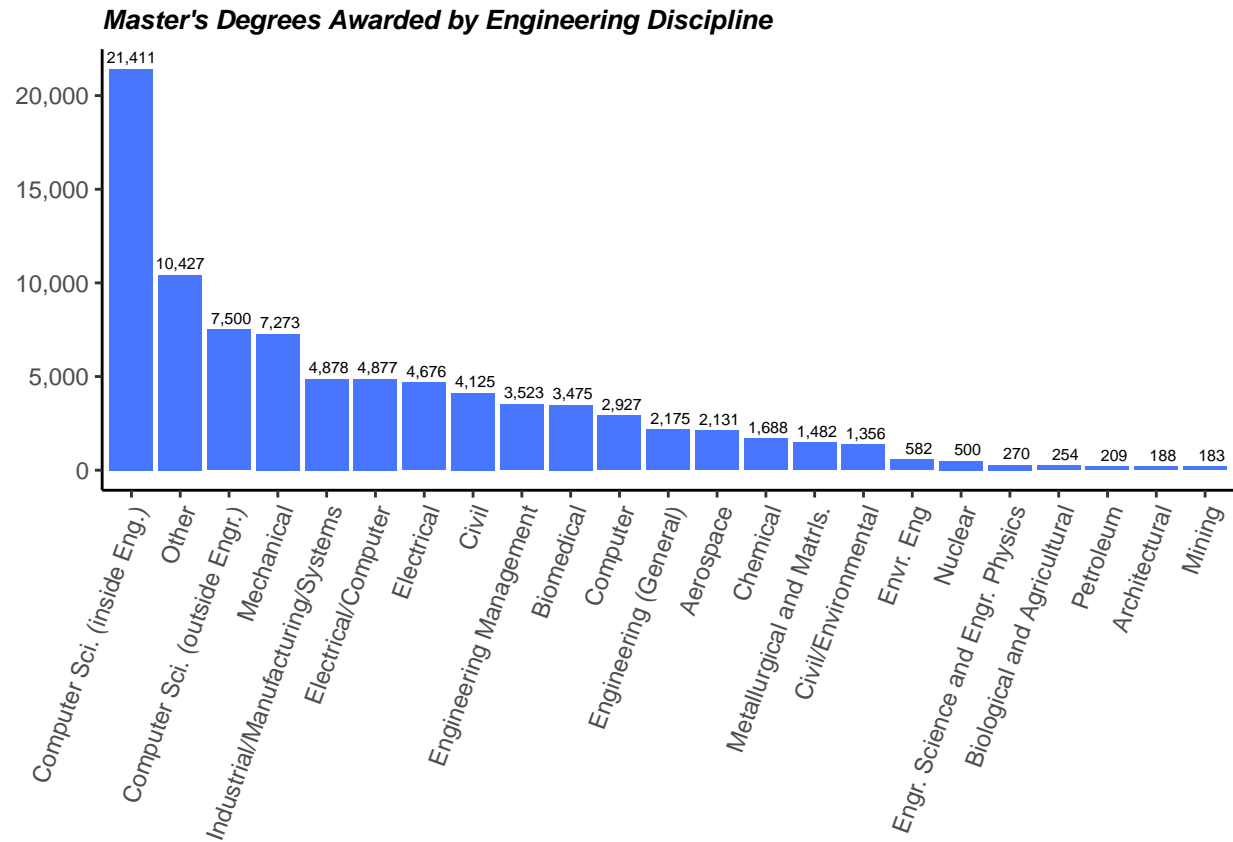
2.1ENGINEERING MASTER’S DEGREE

2.1.1Master’s Degrees Awarded by Engineering Discipline

Table 36: Master’s Degrees by discipline: 78,610

Discipline Name	Degrees Awarded
Computer Sci. (inside Eng.)	21,411
Other	10,427
Computer Sci. (outside Engr.)	7,500
Mechanical	7,273
Industrial/Manufacturing/Systems	4,878
Electrical/Computer	4,877
Electrical	4,676
Civil	4,125
Engineering Management	3,523
Biomedical	3,475
Computer	2,927
Engineering (General)	2,175
Aerospace	2,131
Chemical	1,688
Metallurgical and Matrls.	1,482
Civil/Environmental	1,356
Envr. Eng	582
Nuclear	500
Engr. Science and Engr. Physics	270
Biological and Agricultural	254
Petroleum	209
Architectural	188
Mining	183

* 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: 5,391

Discipline Name	Degrees Awarded
Other	759
Computer Sci. (inside Eng.)	707
Mechanical	689
Industrial/Manufacturing/Systems	405
Biomedical	386
Civil	352
Electrical	351
Engineering Management	303
Electrical/Computer	244
Computer Sci. (outside Engr.)	238
Aerospace	232
Engineering (General)	178
Civil/Environmental	154
Chemical	146
Computer	146
Metallurgical and Matrls.	128
Envr. Eng	59
Nuclear	47
Architectural	31
Biological and Agricultural	22
Petroleum	20
Engr. Science and Engr. Physics	18
Mining	14

* 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 6.5 % of Total

Discipline Name	Percent Women
Architectural	16.5%
Civil/Environmental	11.4%
Biomedical	11.1%
Aerospace	10.9%
Envr. Eng	10.1%
Petroleum	9.6%
Mechanical	9.5%
Nuclear	9.4%
Biological and Agricultural	8.7%
Chemical	8.6%
Engineering Management	8.6%
Metallurgical and Matrls.	8.6%
Civil	8.5%
Industrial/Manufacturing/Systems	8.3%
Engineering (General)	8.2%
Mining	7.7%
Electrical	7.5%
Other	7.3%
Engr. Science and Engr. Physics	6.7%
Computer	5%
Electrical/Computer	5%
Computer Sci. (inside Eng.)	3.3%
Computer Sci. (outside Engr.)	3.2%

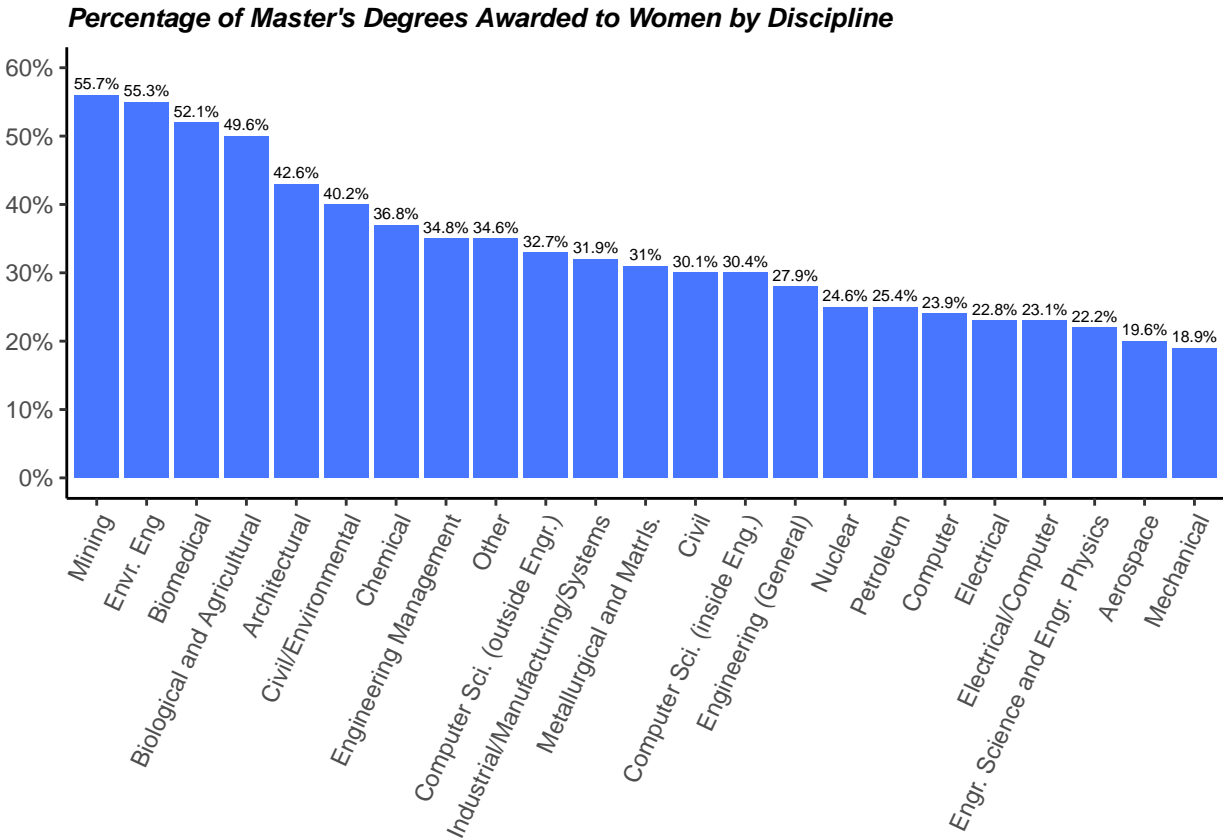
2.1.4 Percentage of Master’s Degrees Awarded to Women by Discipline

Table 39: Percentage of Master’s Degrees Awarded to Women by Discipline 30.4 % of Total

Discipline Name	Percent Women
Mining	55.7%
Envr. Eng	55.3%
Biomedical	52.1%
Biological and Agricultural	49.6%
Architectural	42.6%
Civil/Environmental	40.2%
Chemical	36.8%
Engineering Management	34.8%
Other	34.6%
Computer Sci. (outside Engr.)	32.7%

Table 39: Percentage of Master’s Degrees Awarded to Women by Discipline 30.4 % of Total *(continued)*

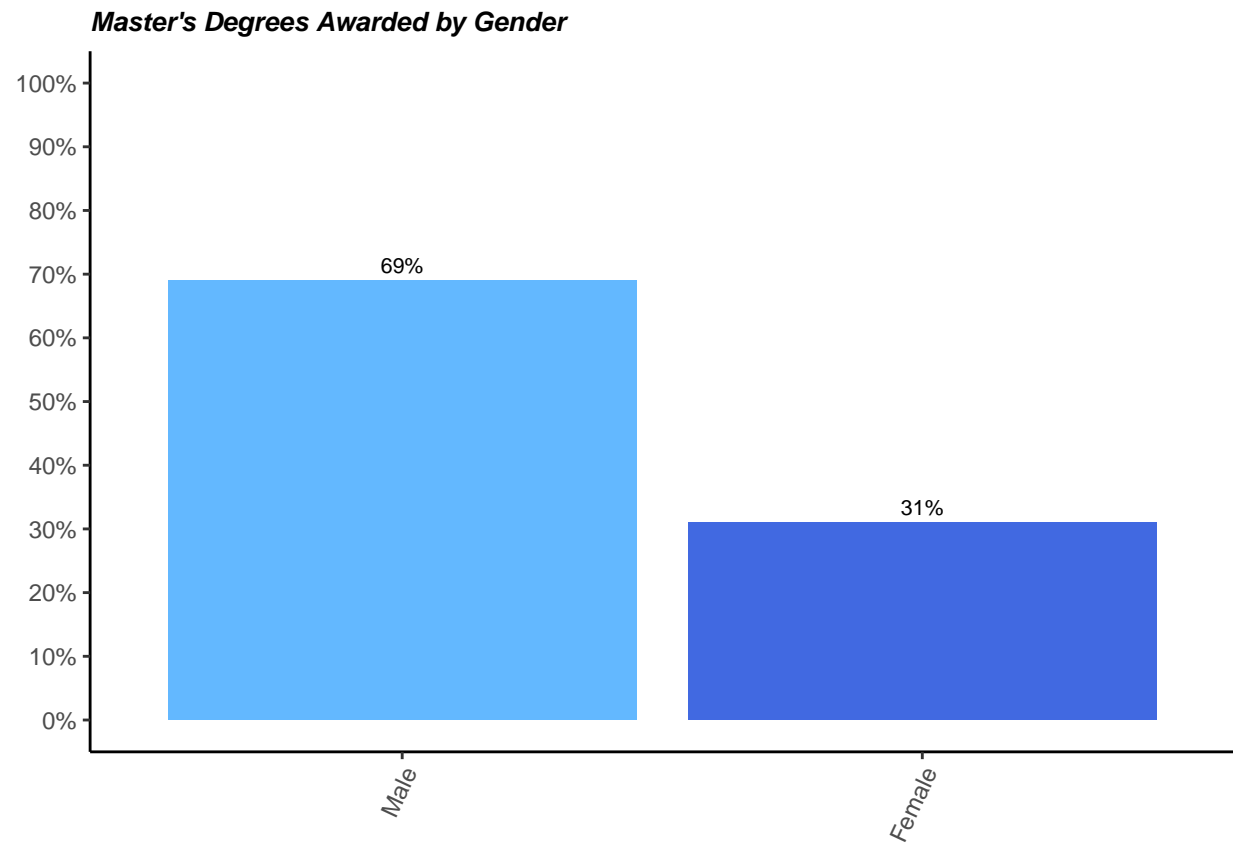
Discipline Name	Percent Women
Industrial/Manufacturing/Systems	31.9%
Metallurgical and Matrls.	31%
Computer Sci. (inside Eng.)	30.4%
Civil	30.1%
Engineering (General)	27.9%
Petroleum	25.4%
Nuclear	24.6%
Computer	23.9%
Electrical/Computer	23.1%
Electrical	22.8%
Engr. Science and Engr. Physics	22.2%
Aerospace	19.6%
Mechanical	18.9%



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%

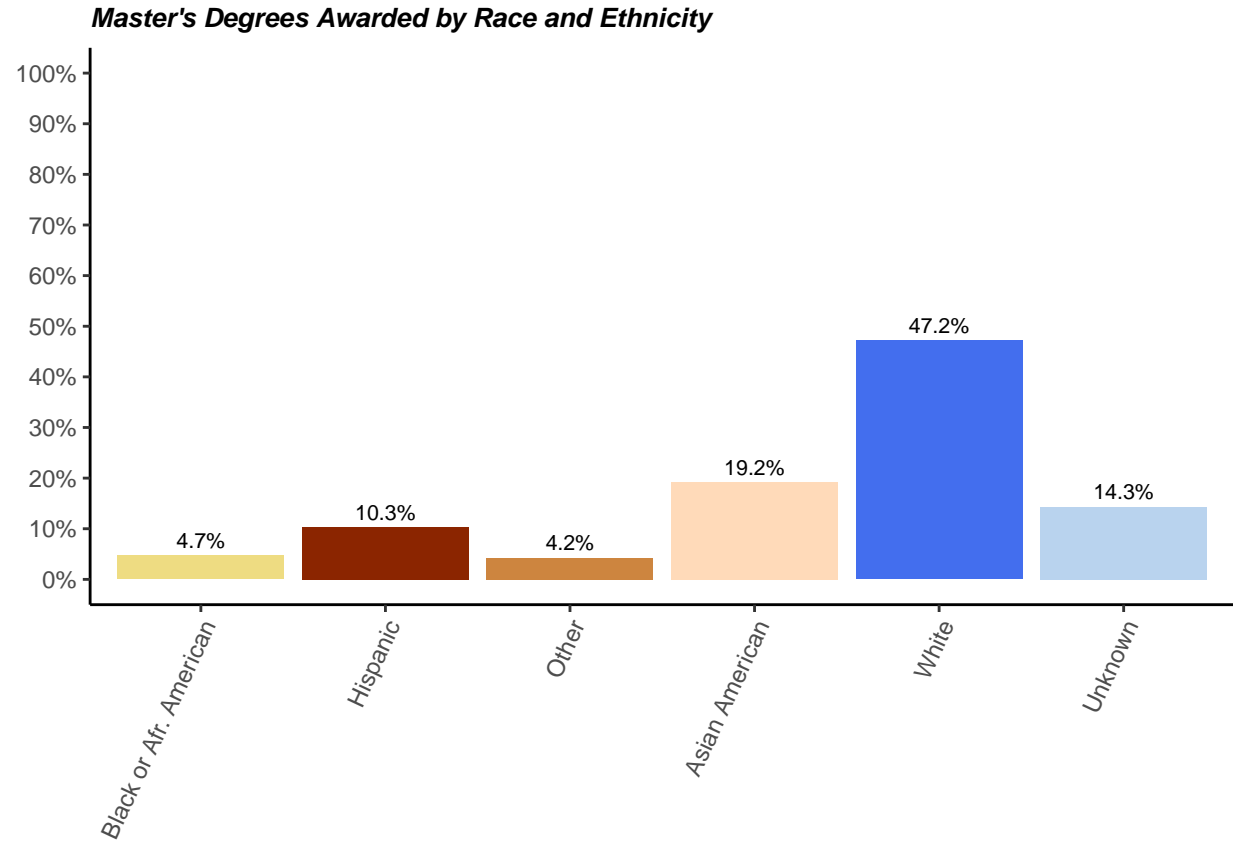


2.1.6 Master’s Degrees Awarded by Race and Ethnicity

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%

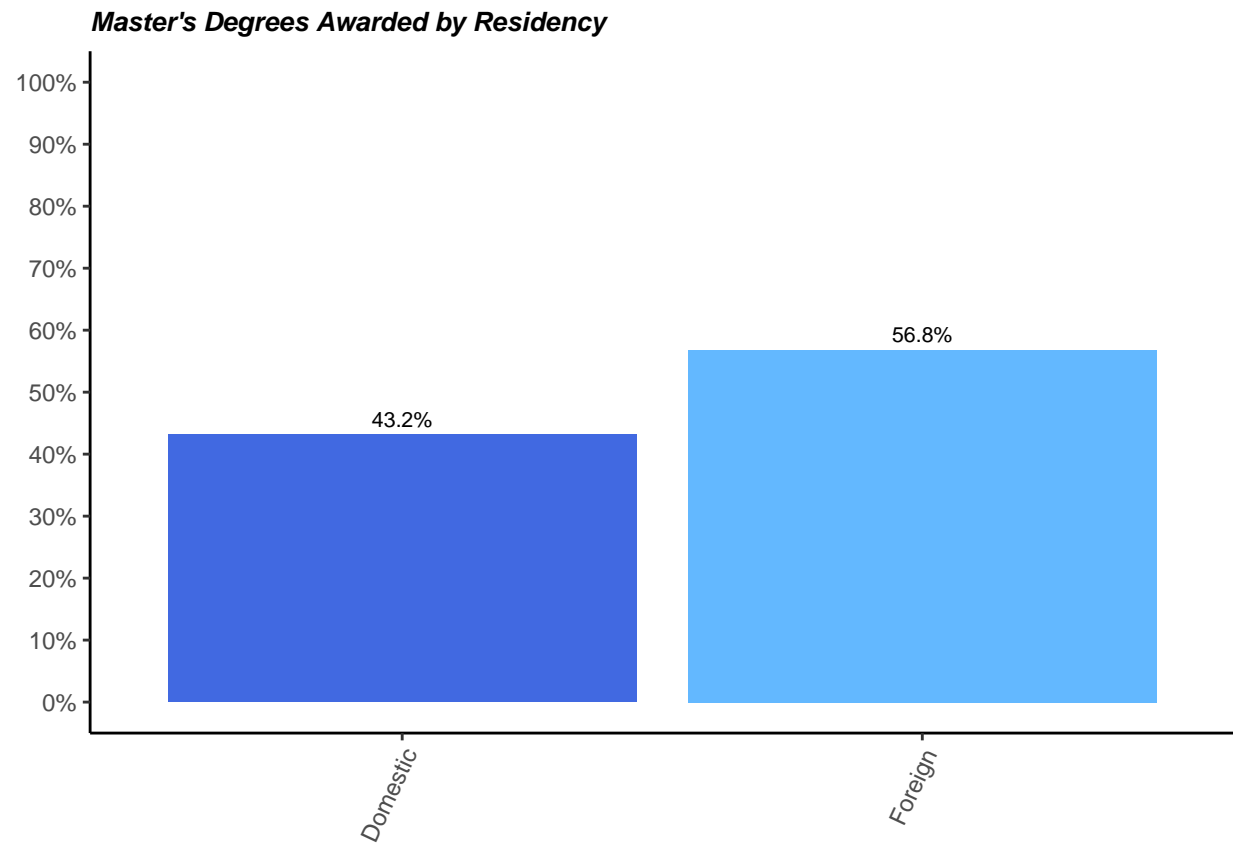
*Data on ethnicity does not include foreign nationals. American Indian/Alaska Native (0.2%), Native Hawaiian/Other Pacific Islander(0.1%) and Multiracial (3.9%) are combined under Other.



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%



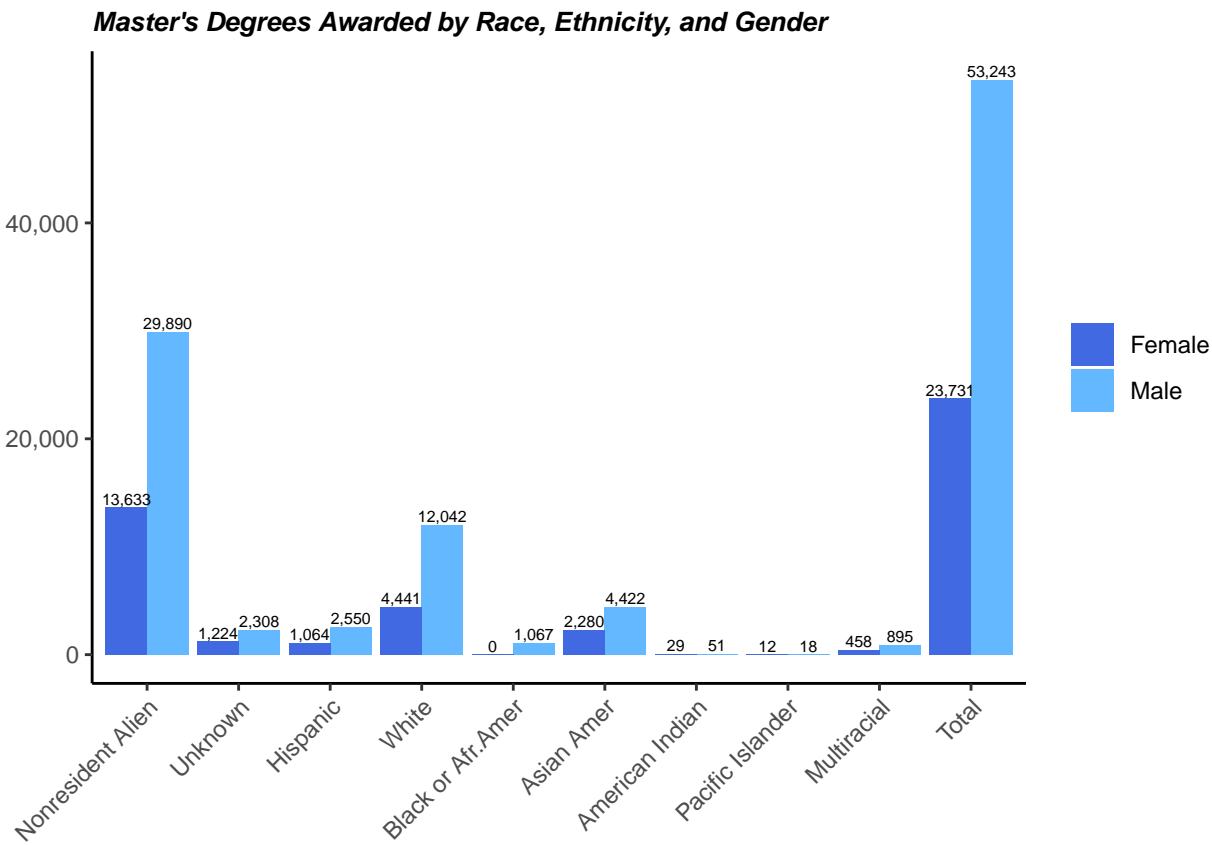
2.1.8 Master’s Degrees Awarded by Race, Ethnicity, and Gender

Table 43: Master’s Degrees Awarded by Race, Ethnicity, and Gender 78,610*

Ethnicity	Degrees Awarded
Nonresident Alien Male	29,890
Nonresident Alien Female	13,633
Unknown Male	2,308
Unknown Female	1,224
Hispanic Male	2,550
Hispanic Female	1,064
White Male	12,042
White Female	4,441
Black or Afr. American Male	1,067
Black or Afr. American Female	0
Asian American Male	4,422
Asian American Female	2,280
American Indian Male	51
American Indian Female	29
Native Hawaiian/Other Pacific Islander Male	18
Native Hawaiian/Other Pacific Islander Female	12
Multiracial Male	895
Multiracial Female	458
Total Male	53,243
Total Female	23,731

* Total degree includes 28 total Non binary graduates and 1,610 total Other Gender graduates.

* Includes 31 male and 18 female graduates from Puerto Rico.



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	Northeastern University	4,057
2	University of Southern California	2,971
3	Arizona State University	2,837
4	Fu Foundation School of Engineering and Applied Science - Columbia University	2,179
5	Georgia Institute of Technology	2,040
6	Carnegie Mellon University	1,902
7	University of Illinois at Urbana-Champaign	1,764
8	The University of Texas at Arlington	1,731
9	NYU Tandon School of Engineering	1,684
10	University at Buffalo, SUNY	1,569
11	University of Pennsylvania	1,565
12	University of Michigan	1,498
13	Stevens Institute of Technology	1,462
14	Cornell University	1,306
15	Stanford University	1,266
16	University of North Texas	1,238
17	Texas A&M University	1,208
18	George Mason University	1,168
19	North Carolina State University	1,135
20	University of California, San Diego	1,119
21	University of Maryland, Baltimore County	1,093
22	New Jersey Institute of Technology	1,088
23	University of California, Berkeley	1,067
24	University of Florida	1,062
25	The University of Texas at Dallas	913
26	San Jose State University	912
27	University of Washington in Seattle	909
28	Northwestern University	877
29	The Johns Hopkins University	857
30	University of California, Los Angeles	839
31	Illinois Institute of Technology	811
32	Virginia Polytechnic Institute and State University	808
33	Duke University	806
34	University of Colorado Boulder	793
35	The University of Texas at Austin	757
36	North Carolina State University at Raleigh	749
37	Purdue University	723
38	Boston University	659
39	University of California, Irvine	658
40	University of Missouri - Kansas City	651
41	The George Washington University	642
41	University of Maryland, College Park	642
43	Massachusetts Institute of Technology	577
43	Texas Tech University	577
45	University of Wisconsin-Madison	570
46	Rutgers, The State University of New Jersey, School of Engineering	552

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

No	Institutions	Degrees Awarded
47	Clemson University	543
48	University of Central Florida	542
49	University of North Carolina at Charlotte	539
50	University of Massachusetts Amherst	526

* 286 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	195
2	Stanford University	153
3	The University of Texas at El Paso	150
4	Georgia Institute of Technology	137
5	University of Southern California	134
6	Arizona State University	129
7	University of Central Florida	111
8	University of Florida	107
9	New Jersey Institute of Technology	103
10	Cornell University	94
11	Texas A&M University	86
12	University of Michigan	85
13	NYU Tandon School of Engineering	81
14	The George Washington University	79
15	University of Illinois at Urbana-Champaign	78
16	The University of Texas at Austin	74
17	Northeastern University	73
17	University of California, San Diego	73
19	University of Maryland, Baltimore County	71
20	Carnegie Mellon University	70

* 286 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	New England Institute of Technology	100%
2	Alabama A & M University	78.8%
3	University of Puerto Rico, Mayaguez Campus	73.5%
4	The University of Texas at El Paso	67.6%
5	Merrimack College	66.7%
6	Howard University	62.5%
7	Indiana State University	60%
7	Prairie View A & M University	60%
9	Tuskegee University	57.1%
10	Norfolk State University	54.5%
11	Bucknell University	50%
11	California Baptist University	50%
11	Fairleigh Dickinson University-Metropolitan Campus	50%
14	Florida International University	46.2%
15	The University of Texas Rio Grande Valley	45.5%
16	National University	41.7%
17	New Mexico Institute of Mining and Technology	40%
18	University of the District of Columbia	38.5%
19	University of Hartford	35%
20	St. Mary's University	33.3%
20	Tarleton State University	33.3%
20	Thomas Jefferson University	33.3%
20	University of Portland	33.3%
24	The University of New Mexico	32.7%
25	Kennesaw State University	32.2%
26	Tennessee State University	31.2%
27	University of San Diego	29.8%
28	The University of Texas at San Antonio	29.2%
29	Florida Atlantic University	28.9%
30	Florida Polytechnic University	28.6%
30	Loyola Marymount University	28.6%
30	Norwich University	28.6%
33	Liberty University	28.3%
34	University of New Orleans	27.8%
35	University of California, Merced	26.5%
36	Arkansas Tech University	25%
36	Florida Gulf Coast University	25%
36	Gonzaga University	25%
36	Montana Technological University	25%

Table 46: Top 50 Institutions by Percentage of Master’s Degrees awarded to Underrepresented Minorities (*continued*)

No	Institutions	Percent Underrepresented Minorities
36	New York Institute of Technology	25%
36	University of Miami	25%
36	Western Kentucky University	25%
43	University of Arizona	24.1%
44	University of North Alabama	23.1%
45	Central Connecticut State University	22.2%
46	University of Louisiana at Lafayette	21.9%
47	San Diego State University	21.4%
48	University of Central Florida	20.5%
49	Saint Martin’s University	20%
49	State University of New York at New Paltz	20%

* 286 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	76.1%
2	Florida Gulf Coast University	75%
3	Howard University	70.8%
4	Widener University	63.2%
5	Tennessee State University	62.5%
6	Thomas Jefferson University	60%
7	Bucknell University	50%
7	Fairleigh Dickinson University-Metropolitan Campus	50%
7	Monmouth University	50%
7	United States Merchant Marine Academy	50%
7	University of South Dakota	50%
7	University of Texas of the Permian Basin	50%
13	Brown University	49.2%
13	University of Arkansas at Little Rock	49.2%
15	Alabama A & M University	48.5%
16	Harvard University	47.8%
17	University of Houston-Clear Lake	44.7%
18	University of North Texas	43.3%
19	Duke University	42.6%
20	Virginia Commonwealth University	41.7%

* 286 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	468
2	University of California, Los Angeles	300
3	Lamar University	159
4	Arizona State University	143
5	University of Houston	125
6	Brown University	121
7	Oklahoma Christian University	87
8	The George Washington University	86
9	Rowan University	82
10	Texas A&M University	56
11	Dartmouth College	55
12	University of Wisconsin, Platteville	35
13	Saint Louis University	33
14	Texas State University	29
15	University of Colorado Colorado Springs	27
16	Texas Tech University	26
17	North Carolina State University	25
17	University of Oklahoma, Gallogly College of Engineering	25
19	University of Georgia	20
20	San Francisco State University	17

* 62 Institutions included

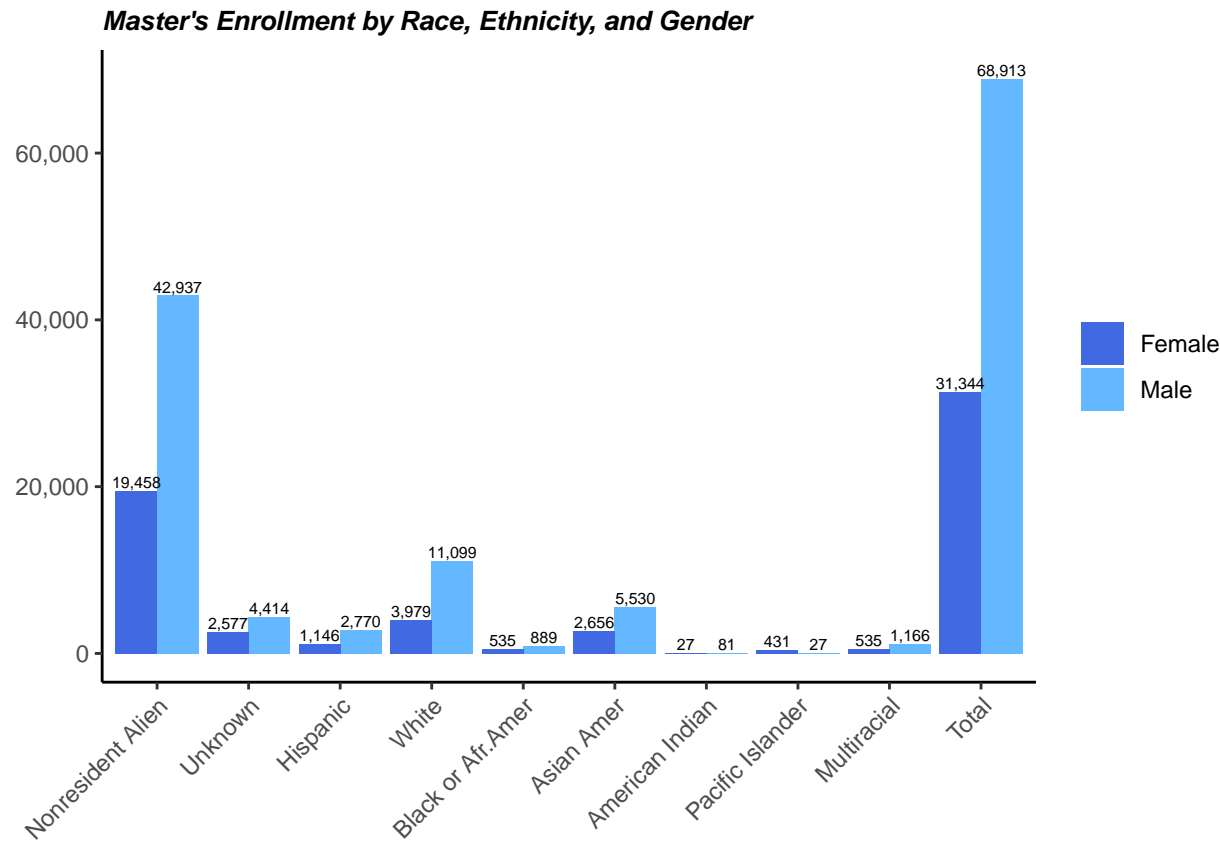
2.2 ENGINEERING MASTER’S ENROLLMENT

2.2.1 Master’s Enrollment by Race, Ethnicity, and Gender

Table 49: Master’s Enrollment Awarded by Race, Ethnicity, and Gender 100,257*

Ethnicity	Enrollments
Nonresident Alien Male	42,937
Nonresident Alien Female	19,458
Unknown Male	4,414
Unknown Female	2,577
Hispanic Male	2,770
Hispanic Female	1,146
White Male	11,099
White Female	3,979
Black or Afr. American Male	889
Black or Afr. American Female	535
Asian American Male	5,530
Asian American Female	2,656
American Indian Male	81
American Indian Female	27
Native Hawaiian/Other Pacific Islander Male	27
Native Hawaiian/Other Pacific Islander Female	431
Multiracial Male	1,166
Multiracial Female	535
Total Male	68,913
Total Female	31,344

* Total Enrollment includes is for full time students
* Includes 99 male and 44 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	6,689
2	University of Illinois at Urbana-Champaign	6,490
3	Arizona State University	6,445
4	Northeastern University	6,275
5	Georgia Institute of Technology	5,573
6	University of Pennsylvania	5,030
7	Fu Foundation School of Engineering and Applied Science - Columbia University	4,963
8	Columbia University	4,952
9	NYU Tandon School of Engineering	4,237
10	University of Michigan	4,109
11	Texas A&M University	4,106
12	Stanford University	3,929
13	North Carolina State University	3,575
14	University of California, San Diego	3,546
15	Massachusetts Institute of Technology	3,351
16	Cornell University	3,289

Table 50: Top 50 Institutions with Highest Graduate Enrollment*
(continued)

No	Institutions	Enrollment
17	Purdue University	3,251
18	University of Washington in Seattle	3,128
19	Virginia Polytechnic Institute and State University	3,115
20	Carnegie Mellon University	2,991
21	University at Buffalo, SUNY	2,932
22	The University of Texas at Arlington	2,927
23	The Johns Hopkins University	2,890
23	University of North Texas	2,890
25	George Mason University	2,816
26	University of Florida	2,810
27	University of California, Berkeley	2,710
28	The Pennsylvania State University	2,671
29	University of California, Los Angeles	2,577
30	University of Colorado Boulder	2,449
31	Northwestern University	2,396
32	The University of Texas at Austin	2,384
33	University of Central Florida	2,248
34	University of Minnesota -Twin Cities	2,177
35	The George Washington University	2,176
36	The University of Texas at Dallas	2,001
37	University of Maryland, Baltimore County	1,990
38	Duke University	1,940
39	The Ohio State University	1,840
40	University of Maryland, College Park	1,773
41	Stony Brook University	1,702
42	University of Wisconsin-Madison	1,700
43	William Marsh Rice University	1,596
44	Washington University in St. Louis	1,560
45	Colorado School of Mines	1,542
46	University of Cincinnati	1,517
47	University of Tennessee, Knoxville	1,501
48	The State University of New York at Binghamton	1,405
49	Clemson University	1,357
50	Oregon State University	1,340

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

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

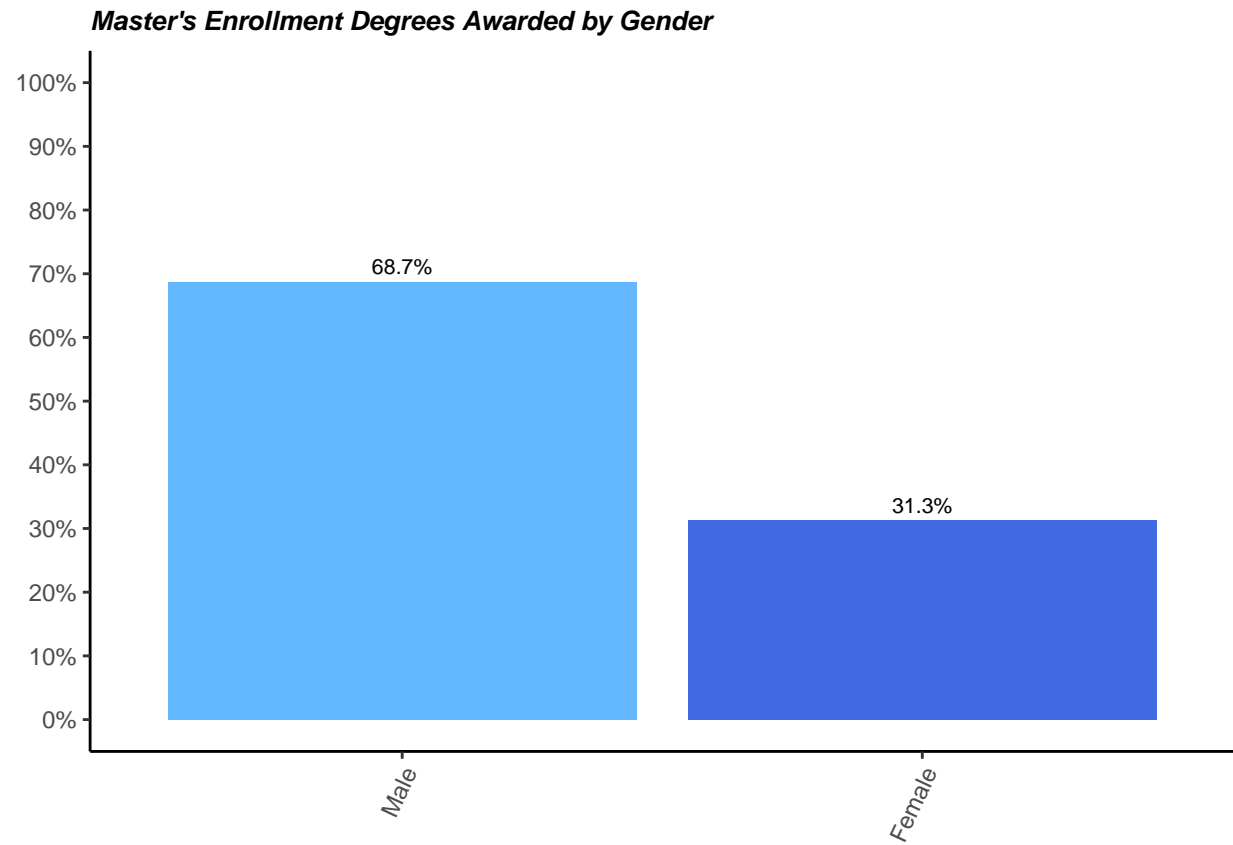
Table 51: Master's Enrollment by Engineering Discipline:(Full time and Part time)

Discipline Name	Full Time	Part Time
Aerospace	2,669	1,657
Architectural	181	18
Biological and Agricultural	390	71
Biomedical	4,252	940
Chemical	1,834	690
Civil	4,560	2,300
Civil Engineering Technology	0	2
Civil/Environmental	1,623	450
Computer	3,632	974
Computer Sci. (inside Eng.)	29,793	12,885
Electrical	5,490	2,710
Electrical/Computer	7,545	2,063
Engineering (General)	1,944	1,095
Engineering Management	3,803	2,841
Engr. Science and Engr. Physics	244	185
Envr. Eng	695	385
Industrial/Manufacturing/Systems	5,051	3,455
Mechanical	8,589	4,133
Metallurgical and Matrls.	1,645	642
Mining	203	137
Nuclear	519	223
Other	15,348	5,184
Petroleum	247	90

2.2.4 Master’s Enrollment by Gender

Table 52: Master’s Enrollment by Gender

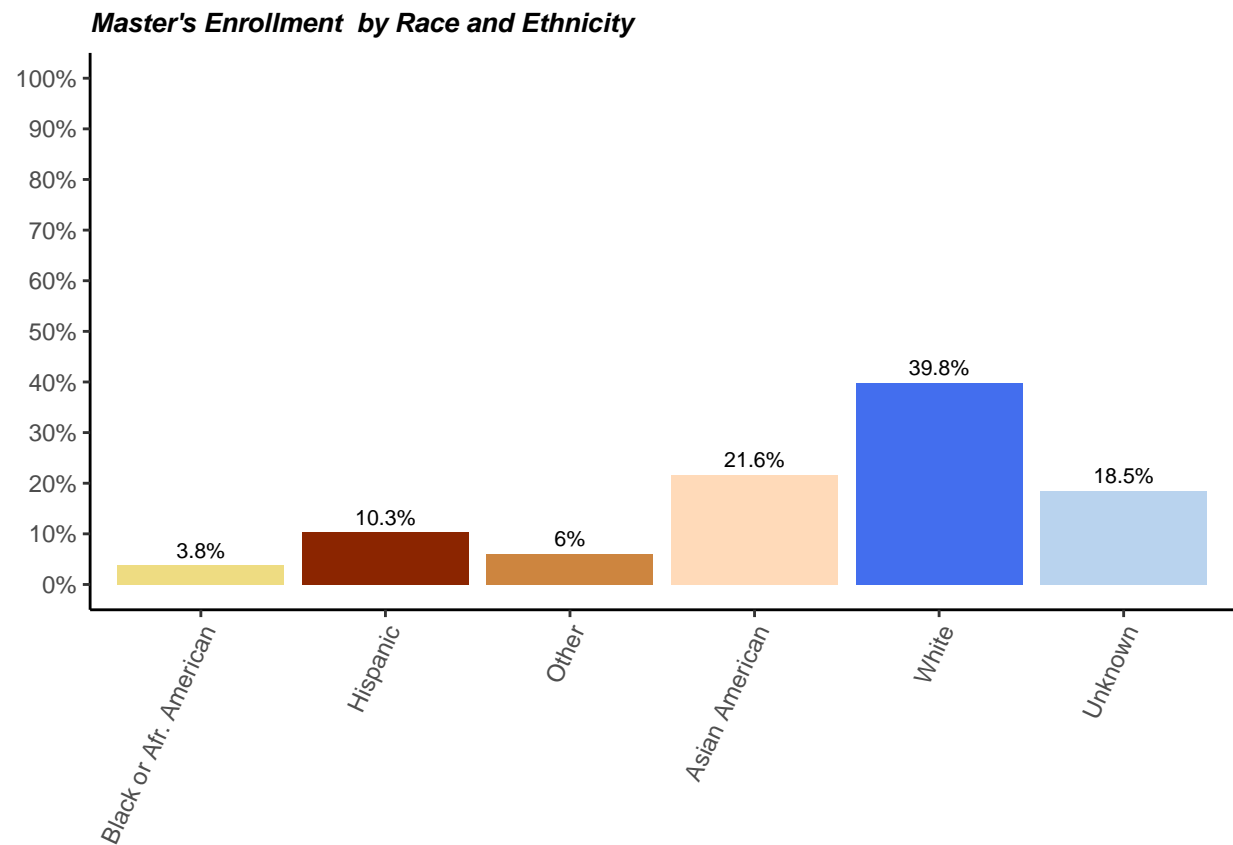
Gender	Percentage
Female	29.6%
Male	70.4%



2.2.5 Master’s Enrollment by Race and Ethnicity

Table 53: Master’s Enrollment by Race and Ethnicity*

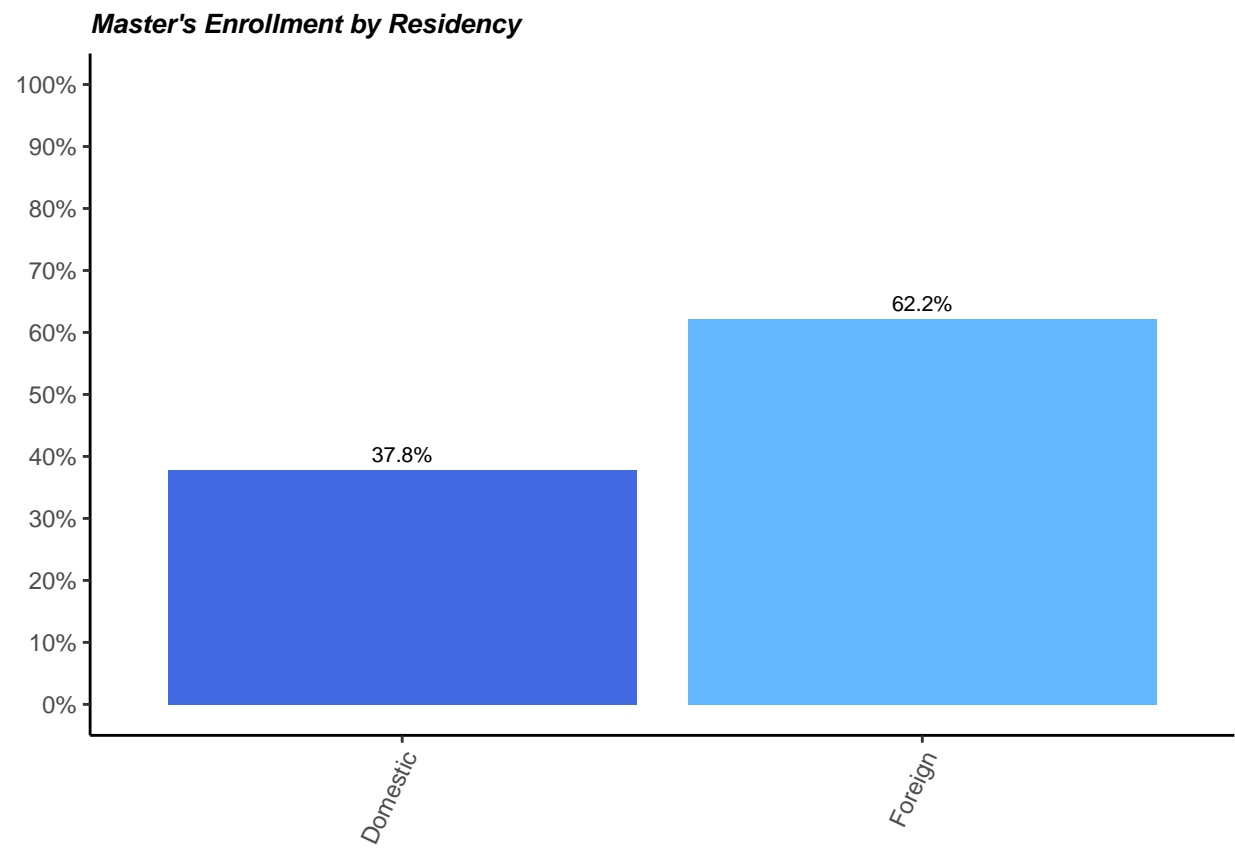
Ethnicity	Percentage
Black or Afr. American	4.5%
Hispanic	10.7%
Other	4.6%
Asian American	18%
White	49.7%
Unknown	12.5%



2.2.6 Master’s Enrollment by Residency

Table 54: Master’s Enrollment by Residency

Nationality	Percentage
Foreign	59.8%
Domestic	40.2%



3

ENGINEERING DOCTORAL

3.1

ENGINEERING DOCTORAL DEGREES

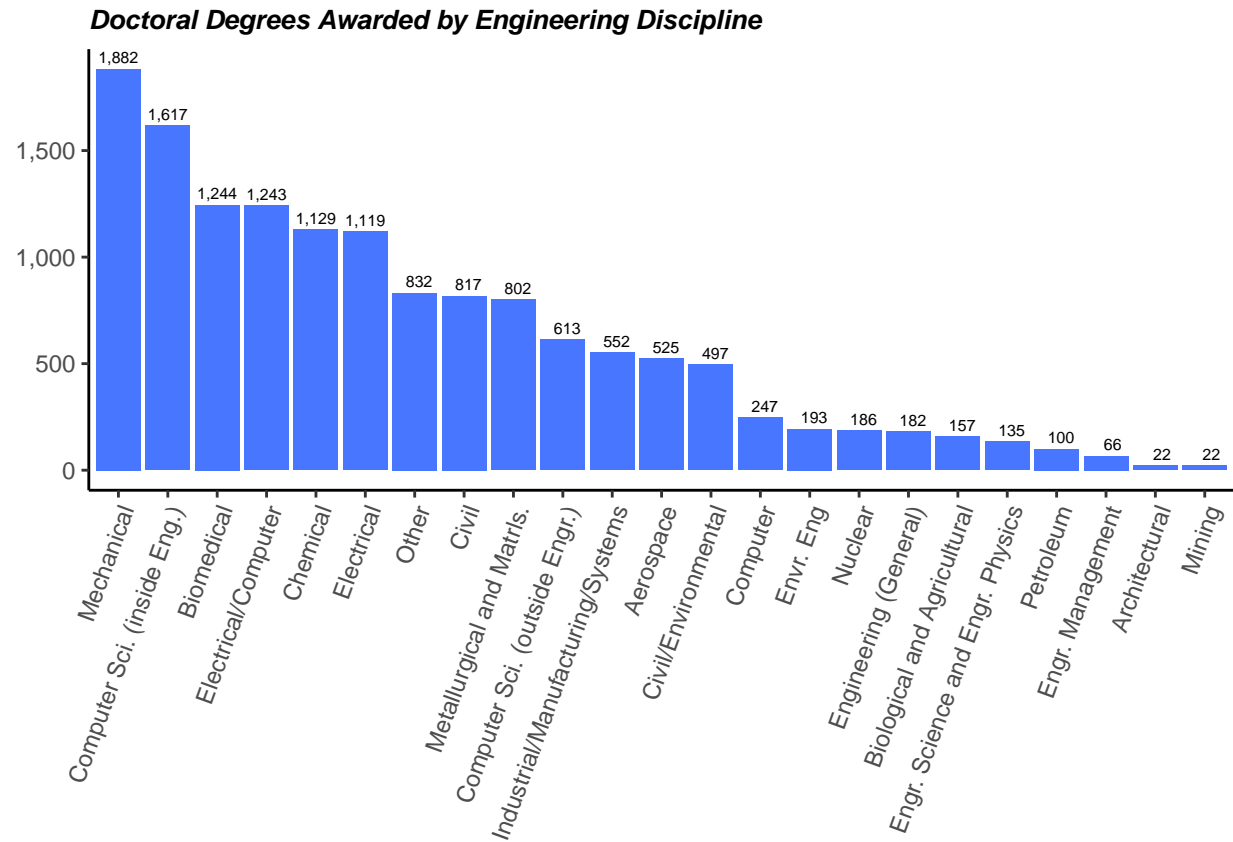
3.1.1

Doctoral Degrees Awarded by Engineering Discipline

Table 55: Doctoral Degrees by discipline: 13,569

Discipline Name	Degrees Awarded
Mechanical	1,882
Computer Sci. (inside Eng.)	1,617
Biomedical	1,244
Electrical/Computer	1,243
Chemical	1,129
Electrical	1,119
Other	832
Civil	817
Metallurgical and Matrls.	802
Computer Sci. (outside Engr.)	613
Industrial/Manufacturing/Systems	552
Aerospace	525
Civil/Environmental	497
Computer	247
Envr. Eng	193
Nuclear	186
Engineering (General)	182
Biological and Agricultural	157
Engr. Science and Engr. Physics	135
Petroleum	100
Engr. Management	66
Architectural	22
Mining	22

* 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: 773

Discipline Name	Degrees Awarded
Biomedical	122
Mechanical	110
Chemical	64
Metallurgical and Matrls.	62
Computer Sci. (inside Eng.)	56
Electrical	45
Other	45
Aerospace	36
Civil	36
Civil/Environmental	32
Electrical/Computer	29
Engineering (General)	27
Industrial/Manufacturing/Systems	23
Computer Sci. (outside Engr.)	20
Envr. Eng	20
Engr. Management	19
Biological and Agricultural	16
Nuclear	13
Computer	10
Engr. Science and Engr. Physics	4
Petroleum	3
Mining	1
Architectural	0

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

3.1.3 Percentage of Doctoral Degrees Awarded to Underrepresented Minorities by Discipline

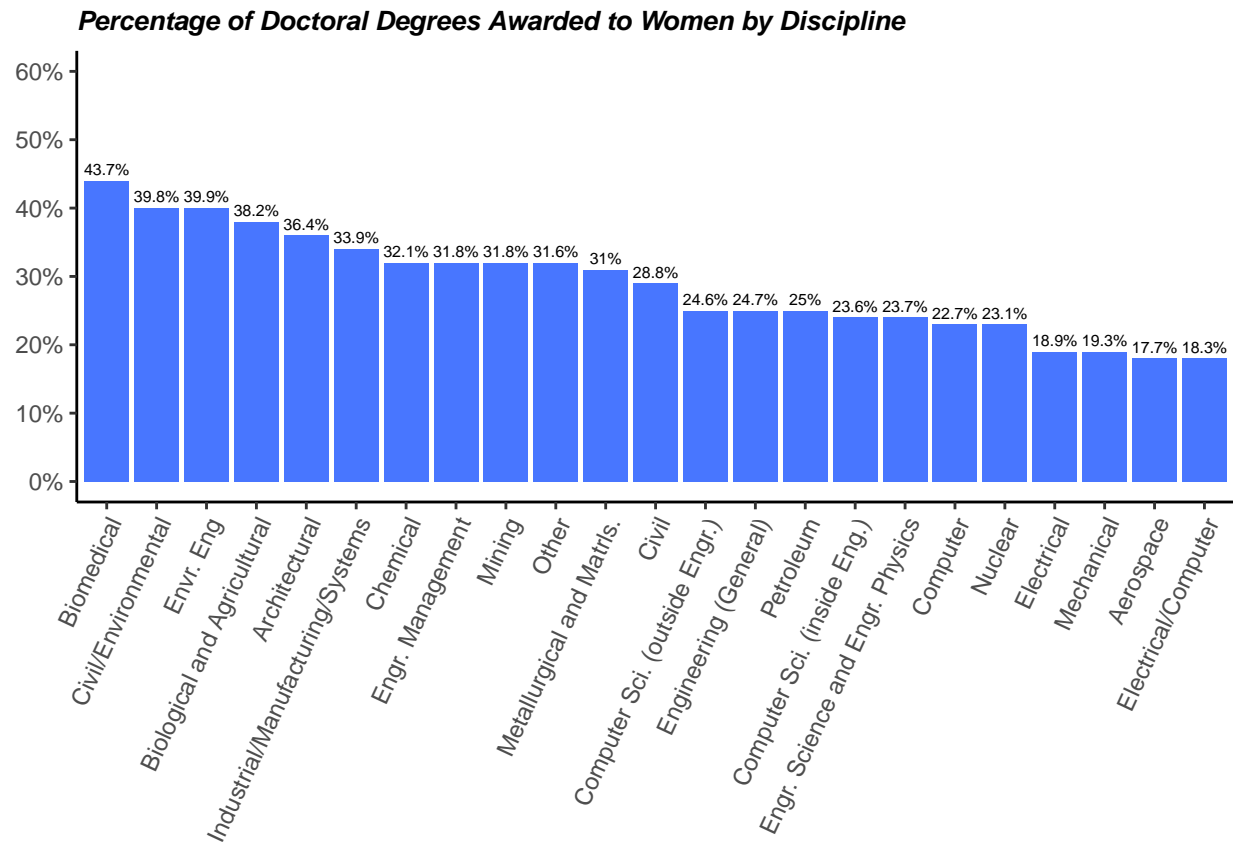
Table 57: Percentage of Doctoral Degrees Awarded to Underrepresented Minorities by Discipline 5.6 % of Total

Discipline Name	Percent Women
Engr. Management	28.8%
Engineering (General)	14.8%
Envr. Eng	10.4%
Biological and Agricultural	10.2%
Biomedical	9.8%
Metallurgical and Matrls.	7.7%
Nuclear	7%
Aerospace	6.9%
Civil/Environmental	6.4%
Mechanical	5.8%
Chemical	5.7%
Other	5.4%
Mining	4.5%
Civil	4.4%
Industrial/Manufacturing/Systems	4.2%
Computer	4%
Electrical	4%
Computer Sci. (inside Eng.)	3.5%
Computer Sci. (outside Engr.)	3.3%
Engr. Science and Engr. Physics	3%
Petroleum	3%
Electrical/Computer	2.3%
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 27.1 % of Total

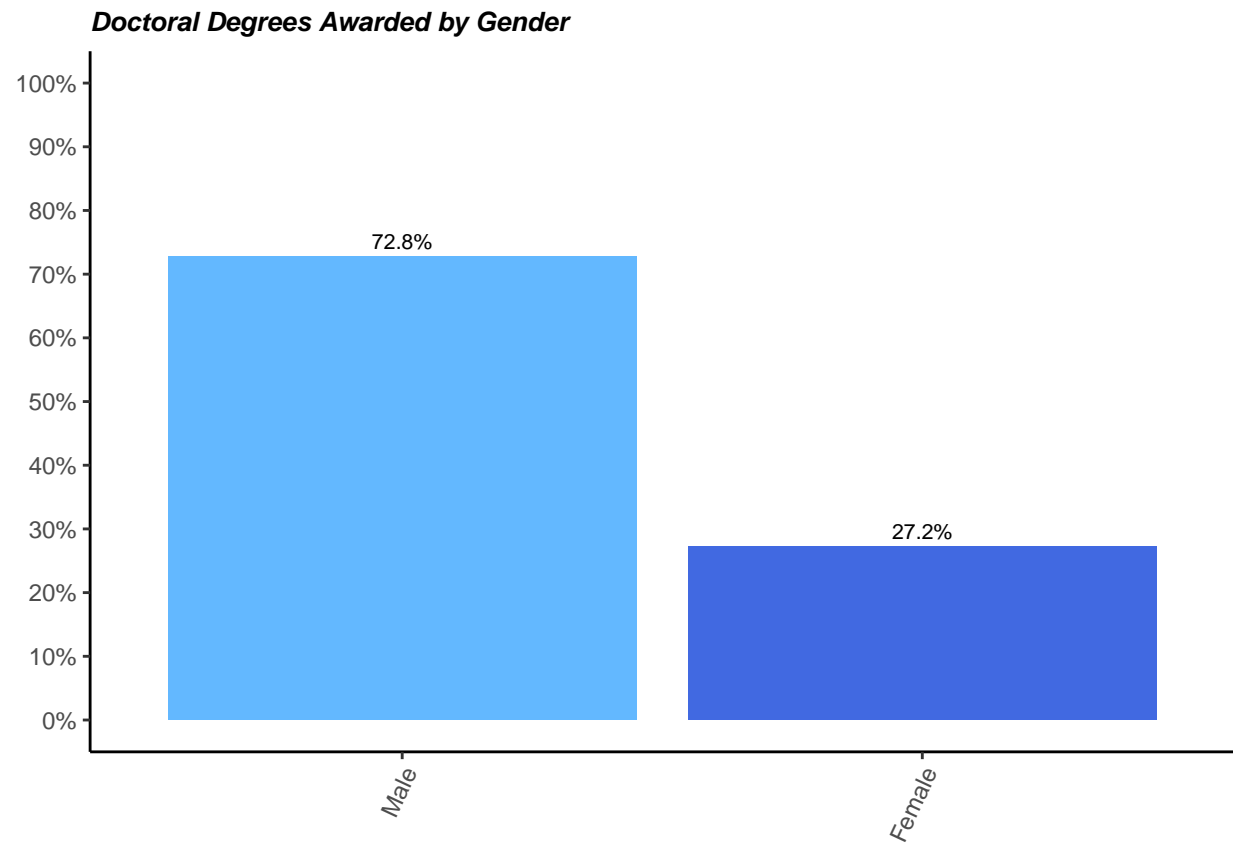
Discipline Name	Percent Women
Biomedical	43.7%
Envr. Eng	39.9%
Civil/Environmental	39.8%
Biological and Agricultural	38.2%
Architectural	36.4%
Industrial/Manufacturing/Systems	33.9%
Chemical	32.1%
Engr. Management	31.8%
Mining	31.8%
Other	31.6%
Metallurgical and Matrls.	31%
Civil	28.8%
Petroleum	25%
Engineering (General)	24.7%
Computer Sci. (outside Engr.)	24.6%
Engr. Science and Engr. Physics	23.7%
Computer Sci. (inside Eng.)	23.6%
Nuclear	23.1%
Computer	22.7%
Mechanical	19.3%
Electrical	18.9%
Electrical/Computer	18.3%
Aerospace	17.7%



3.1.5 Doctoral Degrees Awarded by Gender

Table 59: Doctoral Degrees Awarded by Gender

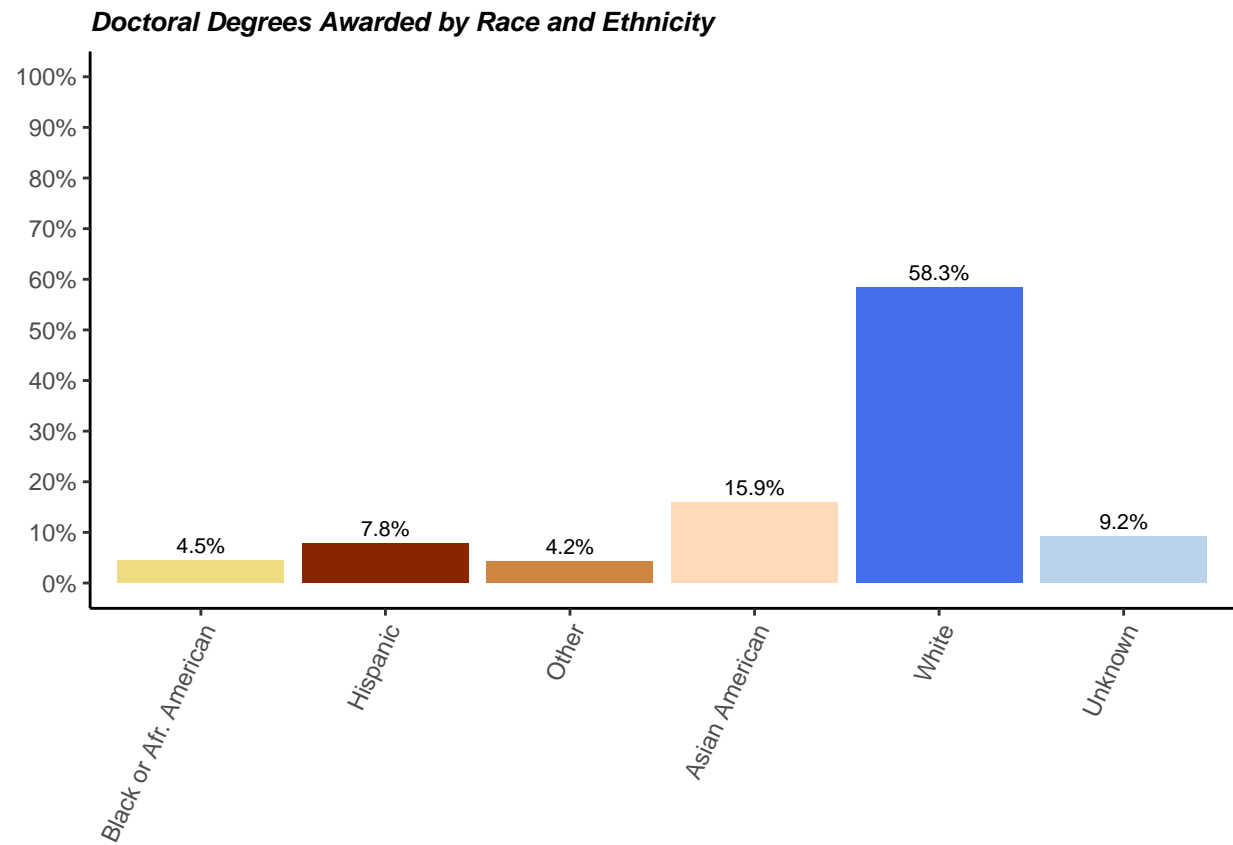
Gender	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Female	21.20%	22.90%	21.80%	22.20%	22.40%	22.20%	23.30%	23.50%	23.60%	24.10%	23.90%	74.30%	26.20%
Male	78.80%	77.10%	78.20%	77.80%	77.60%	77.80%	76.70%	76.50%	76.40%	75.90%	76.10%	25.70%	73.80%



3.1.6 Doctoral Degrees Awarded by Race and Ethnicity

Table 60: Doctoral Degrees Awarded by Ethnicity

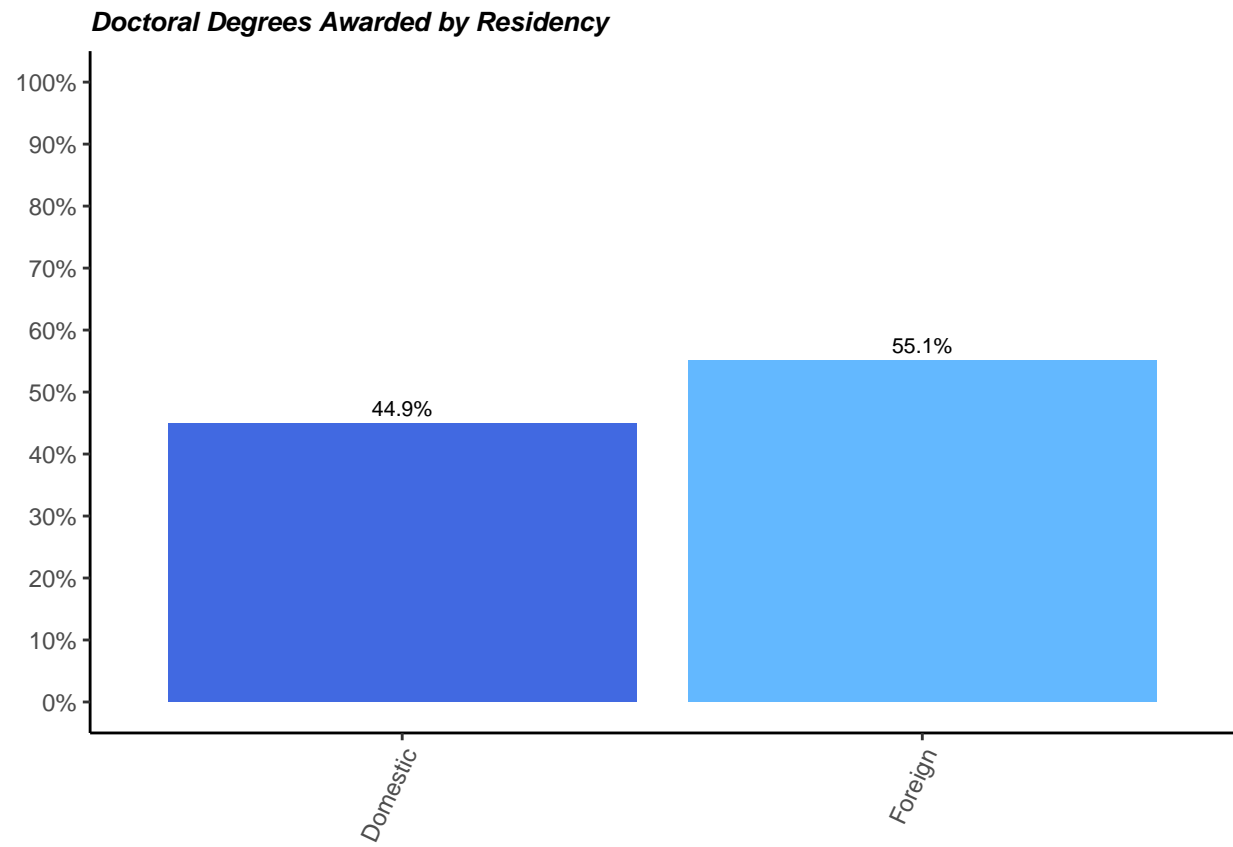
Ethnicity	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Black or Afr. American	4.4%	3.5%	4.1%	4.1%	3.6%	3.2%	4.4%	3.8%	4.2%	3.9%	3.6%	3.9%
Hispanic	5.2%	4.2%	4.1%	4.7%	5.1%	6.1%	5.7%	6.3%	6.0%	6.1%	6.9%	7.5%
Other	1.0%	1.6%	1.7%	1.7%	1.6%	2.2%	3.1%	2.9%	2.9%	2.8%	3.6%	3.6%
Asian American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



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%

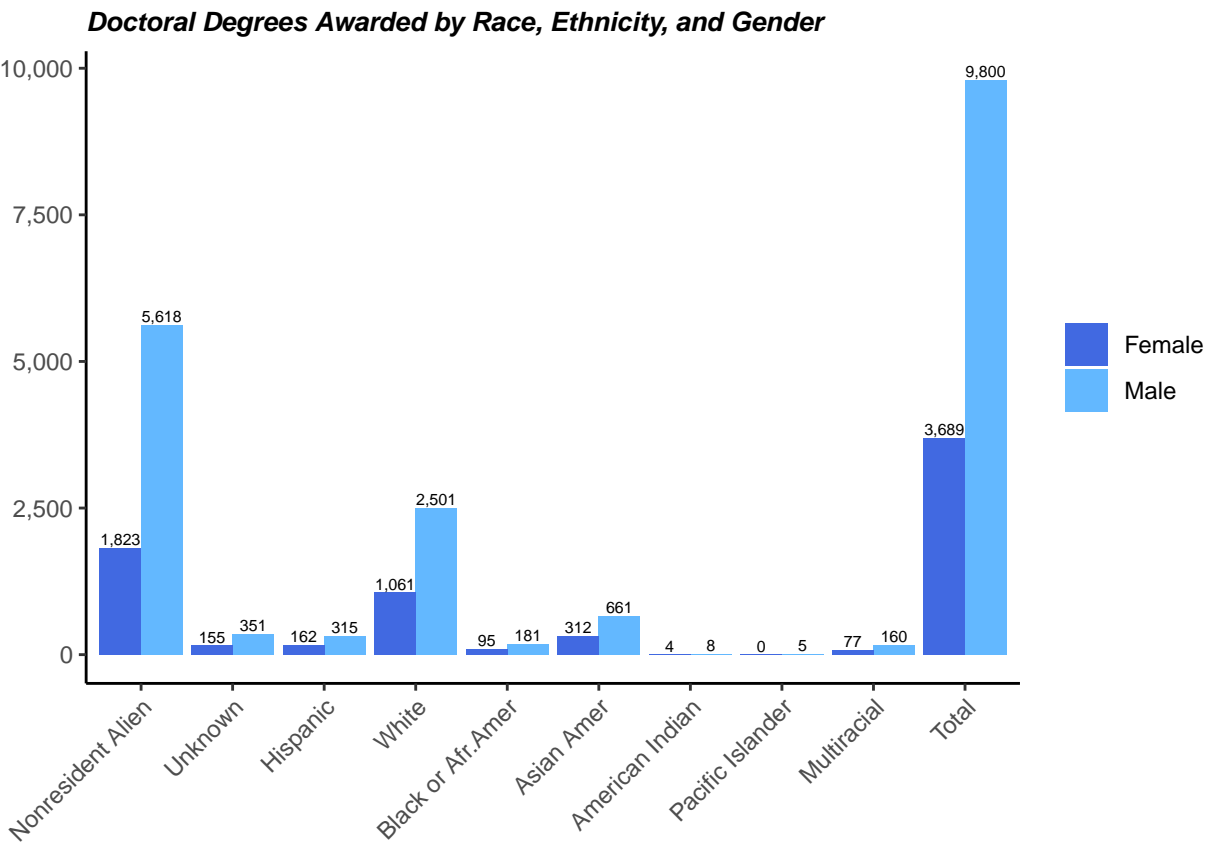


3.1.8 Doctoral Degrees Awarded by Race, Ethnicity, and Gender

Table 62: Doctoral Degrees Awarded by Race, Ethnicity, and Gender 13,569*

Ethnicity	Degrees
Nonresident Alien Male	5,618
Nonresident Alien Female	1,823
Unknown Male	351
Unknown Female	155
Hispanic Male	315
Hispanic Female	162
White Male	2,501
White Female	1,061
Black or Afr. American Male	181
Black or Afr. American Female	95
Asian American Male	661
Asian American Female	312
American Indian Male	8
American Indian Female	4
Native Hawaiian/Other Pacific Islander Male	5
Native Hawaiian/Other Pacific Islander Female	0
Multiracial Male	160
Multiracial Female	77
Total Male	9,800
Total Female	3,689

* Total degree includes 2 total Non binary graduates and 80 total Other Gender graduates.
* Includes 6 male and 8 female graduates from Puerto Rico.



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	443
2	Purdue University	401
3	University of Illinois at Urbana-Champaign	348
4	University of Michigan	337
5	Stanford University	306
6	Texas A&M University	287
7	Massachusetts Institute of Technology	279
8	The University of Texas at Austin	266
9	University of California, Berkeley	255
10	Carnegie Mellon University	253
11	The Pennsylvania State University	245
12	University of California, San Diego	244
13	North Carolina State University	233
14	Virginia Polytechnic Institute and State University	219
15	University of California, Los Angeles	204
16	Cornell University	194
17	University of Minnesota -Twin Cities	193
18	The Johns Hopkins University	184
18	University of Southern California	184
20	University of Washington in Seattle	182
21	North Carolina State University at Raleigh	177
21	Northwestern University	177
23	The Ohio State University	173
24	Arizona State University	170
25	University of Florida	168
26	University of Colorado Boulder	164
27	University of Maryland, College Park	159
28	University of Wisconsin-Madison	153
29	Northeastern University	152
30	William Marsh Rice University	145
31	University of California, Irvine	135
32	Michigan State University	133
32	University of Virginia	133
34	The George Washington University	132
34	University of California, Davis	132
36	Duke University	128
37	Colorado School of Mines	123
37	University of Utah	123
39	Princeton University	122
40	University of Tennessee, Knoxville	121
41	University of Pennsylvania	120

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

No	Institutions	Degrees Awarded
42	Fu Foundation School of Engineering and Applied Science - Columbia University	118
42	University of California, Santa Barbara	118
44	University of Delaware	114
45	Clemson University	111
46	Iowa State University	110
47	The University of Texas at Arlington	102
48	Boston University	100
48	Oregon State University	100
50	University of Illinois at Chicago	98

* 199 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	Georgia Institute of Technology	41
2	The George Washington University	37
3	University of Florida	29
4	Texas A&M University	27
5	Stanford University	25
6	University of Michigan	22
7	Massachusetts Institute of Technology	19
7	University of California, Berkeley	19
9	Purdue University	17
9	The Johns Hopkins University	17
11	University of California, San Diego	16
12	Carnegie Mellon University	15
13	University of Washington in Seattle	14
14	University of California, Los Angeles	13
14	Virginia Polytechnic Institute and State University	13
16	The University of Texas at El Paso	12
16	University of Wisconsin-Madison	12
18	The Pennsylvania State University	11
18	University of Illinois at Urbana-Champaign	11
18	University of Pennsylvania	11

* 199 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	University of South Dakota	100%
1	University of the District of Columbia	100%
3	Kennesaw State University	50%
3	Prairie View A & M University	50%
3	University of Puerto Rico, Mayaguez Campus	50%
6	The University of Texas at El Paso	41.4%
7	The George Washington University	28%
8	New Mexico Institute of Mining and Technology	20%
9	University of North Dakota	18.2%
10	University of Florida	17.3%
11	University of Miami	17.2%
12	Oakland University	16.7%
12	University of Louisiana at Lafayette	16.7%
14	University of South Florida	16.4%
15	The University of Alabama in Huntsville	14.8%
16	Florida Atlantic University	14.3%
16	South Dakota School of Mines and Technology	14.3%
16	University of Southern Mississippi	14.3%
19	FAMU-FSU College of Engineering	14.1%
20	University of Colorado Denver	13.3%
20	Villanova University	13.3%
22	Southern Methodist University	13%
22	University of Nevada, Las Vegas	13%
24	Embry Riddle Aeronautical University-Daytona Beach	12.5%
24	The University of Tulsa	12.5%
26	California Institute of Technology	11.7%
27	Lamar University	11.1%

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

No	Institutions	Percent Underrepresented Minorities
27	Portland State University	11.1%
29	Colorado State University	10.4%
30	Florida International University	10%
30	Southern Illinois University Carbondale	10%
30	The Catholic University of America	10%
30	University of New Orleans	10%
34	Texas A&M University	9.4%
35	Georgia Institute of Technology	9.3%
36	The Johns Hopkins University	9.2%
37	University of Pennsylvania	9.2%
38	Old Dominion University	9.1%
39	University of Maryland, Baltimore County	8.8%
40	University of Massachusetts Amherst	8.6%
41	Virginia Commonwealth University	8.3%
42	Stanford University	8.2%
43	University of California, Merced	8%
44	The University of Texas at San Antonio	7.9%
45	University of Wisconsin-Madison	7.8%
46	Mississippi State University	7.8%
47	Rowan University	7.7%
47	University of Washington in Seattle	7.7%
49	University of California, Davis	7.6%
50	University of California, Berkeley	7.5%

* 199 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	Thomas Jefferson University	100%
2	Saint Louis University	66.7%
3	Santa Clara University	57.1%
3	University of Puerto Rico, Mayaguez Campus	57.1%
5	The University of Mississippi	53.8%
6	University of Colorado Denver	53.3%
6	University of North Texas	53.3%
8	Marquette University	52.9%
9	Kennesaw State University	50%
9	University of North Carolina at Chapel Hill	50%
11	University of Georgia	48.8%
12	Brown University	46.7%
13	Cleveland State University	44.4%
14	Louisiana Tech University	42.9%
14	South Dakota School of Mines and Technology	42.9%
14	University of Virginia	42.9%
17	Wayne State University	41.5%
18	Colorado School of Mines	40.7%
19	Idaho State University	40%
19	The Catholic University of America	40%

* 199 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	256
2	Georgia Institute of Technology	234
3	University of Illinois at Urbana-Champaign	230
4	Texas A&M University	193
5	University of Michigan	153
6	The Pennsylvania State University	148
7	Massachusetts Institute of Technology	145
8	North Carolina State University	142
8	University of California, San Diego	142
10	Carnegie Mellon University	135
11	University of California, Los Angeles	134
12	University of Southern California	132
13	The University of Texas at Austin	130
14	Virginia Polytechnic Institute and State University	128
15	Stanford University	125
16	Cornell University	119
17	Arizona State University	118

Table 67: Top 50 Institutions Awarding Doctoral Degrees to Foreign Nationals (*continued*)

No	Institutions	Degrees Awarded
18	University of California, Berkeley	115
19	The Ohio State University	109
20	North Carolina State University at Raleigh	107
21	University of Maryland, College Park	99
22	University of Minnesota -Twin Cities	96
23	University of Wisconsin-Madison	95
24	The Johns Hopkins University	94
25	Northwestern University	90
25	William Marsh Rice University	90
27	Northeastern University	89
28	University of Florida	88
29	Michigan State University	78
30	The University of Texas at Arlington	77
31	The University of Texas at Dallas	76
32	University of California, Irvine	75
33	Duke University	74
34	University of California, Davis	72
35	University of Washington in Seattle	71
36	University of Virginia	70
37	University at Buffalo, SUNY	68
38	Iowa State University	67
38	University of Illinois at Chicago	67
40	NYU Tandon School of Engineering	66
41	Auburn University	61
41	University of Houston	61
43	Stony Brook University	60
44	University of Central Florida	59
44	University of Colorado Boulder	59
44	University of Connecticut	59
47	Boston University	58
47	University of California, Riverside	58
49	Clemson University	56
49	University of Delaware	56

* 199 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	Jackson State University	100%
1	University of Bridgeport	100%
3	The State University of New York at Binghamton	86%
4	San Diego State University	85.7%
4	Santa Clara University	85.7%
6	Florida International University	82%
7	South Dakota State University	81.8%
8	University of Georgia	80.5%
9	Southern Illinois University Carbondale	80%
9	The Catholic University of America	80%
9	University of Detroit Mercy	80%
9	Western New England University	80%
13	Illinois Institute of Technology	79.5%
14	Florida Atlantic University	78.6%
15	New Jersey Institute of Technology	78.4%
15	The University of Texas at Dallas	78.4%
17	Southern Methodist University	78.3%
18	University at Buffalo, SUNY	78.2%
19	City College of the City University of New York	77.8%
20	NYU Tandon School of Engineering	77.6%
20	University of Cincinnati	77.6%
22	University of Michigan-Dearborn	76.5%
23	The University of Texas at Arlington	75.5%
24	Rutgers, The State University of New Jersey, School of Engineering	75.4%
25	University of Hawaii at Manoa	75%
25	Washington State University	75%
27	University of Houston	74.4%

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

No	Institutions	Percentage
28	University of California, Merced	74%
29	University of Wyoming	73.9%
30	Michigan Technological University	73.7%
31	University of North Carolina at Charlotte	73.3%
32	University of North Dakota	72.7%
33	Tennessee Technological University	72.2%
33	University of Missouri	72.2%
35	University of Southern California	71.7%
36	Florida Institute of Technology	70.6%
36	University of Maryland, Baltimore County	70.6%
38	University of Connecticut	70.2%
39	Arizona State University	69.4%
40	Auburn University	69.3%
41	Rowan University	69.2%
42	University of California, Riverside	69%
43	The University of Tulsa	68.8%
44	Oklahoma State University	68.6%
45	Syracuse University	68.4%
45	University of Illinois at Chicago	68.4%
45	University of Wisconsin, Milwaukee	68.4%
48	Louisiana State University	67.9%
49	Stony Brook University	67.4%
50	Texas A&M University	67.2%

* 199 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	Northern Arizona University	33.3%
1	Prairie View A & M University	33.3%
3	University of Vermont	35%
4	Colorado State University	35.1%
5	University of Colorado Boulder	36%
6	California Institute of Technology	36.7%
7	The University of Memphis	37.5%
8	The University of Texas at El Paso	37.9%
9	University of California, Santa Barbara	38.1%
10	Tufts University	39%
10	University of Washington in Seattle	39%
12	University of South Carolina	39.4%
13	Dartmouth College	40%
13	Harvard University	40%
13	New Mexico Institute of Mining and Technology	40%
13	University of New Orleans	40%
17	Stanford University	40.8%
18	The University of New Mexico	41.3%
19	Virginia Commonwealth University	41.7%
20	Drexel University	42%
21	University of Tennessee, Knoxville	42.1%
22	The University of Iowa	42.5%
23	South Dakota School of Mines and Technology	42.9%
24	University of Pennsylvania	43.3%
25	Boise State University	44.8%

* 199 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	The George Washington University	39
2	Dartmouth College	19
3	University of Colorado Colorado Springs	15
3	Villanova University	15
5	The University of Memphis	13
6	Rochester Institute of Technology	12
7	Cleveland State University	9
8	Brown University	8

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

No	Institutions	Degrees Awarded
9	Lamar University	7
9	Texas A&M University	7

* 25 Institutions included

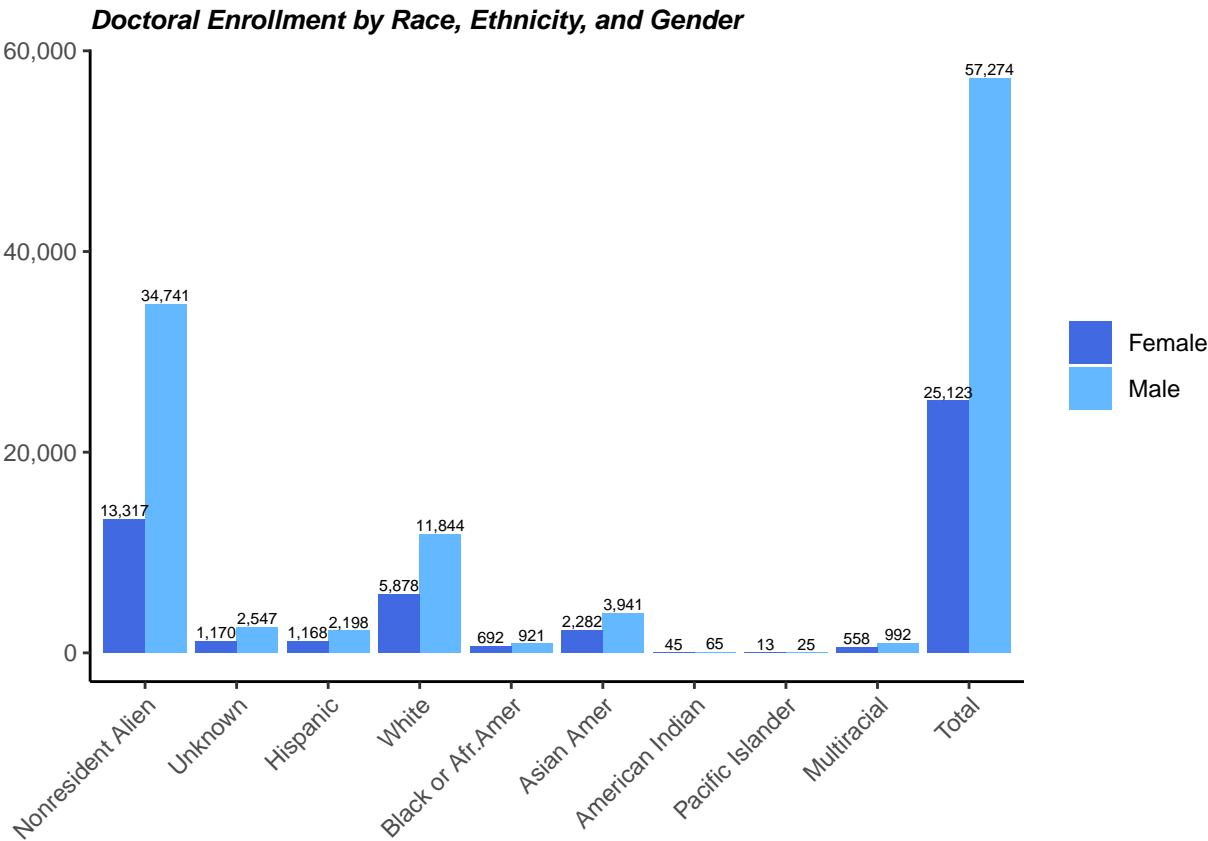
3.2 ENGINEERING DOCTORAL ENROLLMENT

3.2.1 Doctoral Enrollment by Race, Ethnicity, and Gender

Table 71: Doctoral Enrollment by Race, Ethnicity, and Gender 83,196*

Ethnicity	Enrollments
Nonresident Alien Male	34,741
Nonresident Alien Female	13,317
Unknown Male	2,547
Unknown Female	1,170
Hispanic Male	2,198
Hispanic Female	1,168
White Male	11,844
White Female	5,878
Black or Afr. American Male	921
Black or Afr. American Female	692
Asian American Male	3,941
Asian American Female	2,282
American Indian Male	65
American Indian Female	45
Native Hawaiian/Other Pacific Islander Male	25
Native Hawaiian/Other Pacific Islander Female	13
Multiracial Male	992
Multiracial Female	558
Total Male	57,274
Total Female	25,123

* Includes 67 male and 27 female enrolled students from Institutions in Puerto Rico.



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

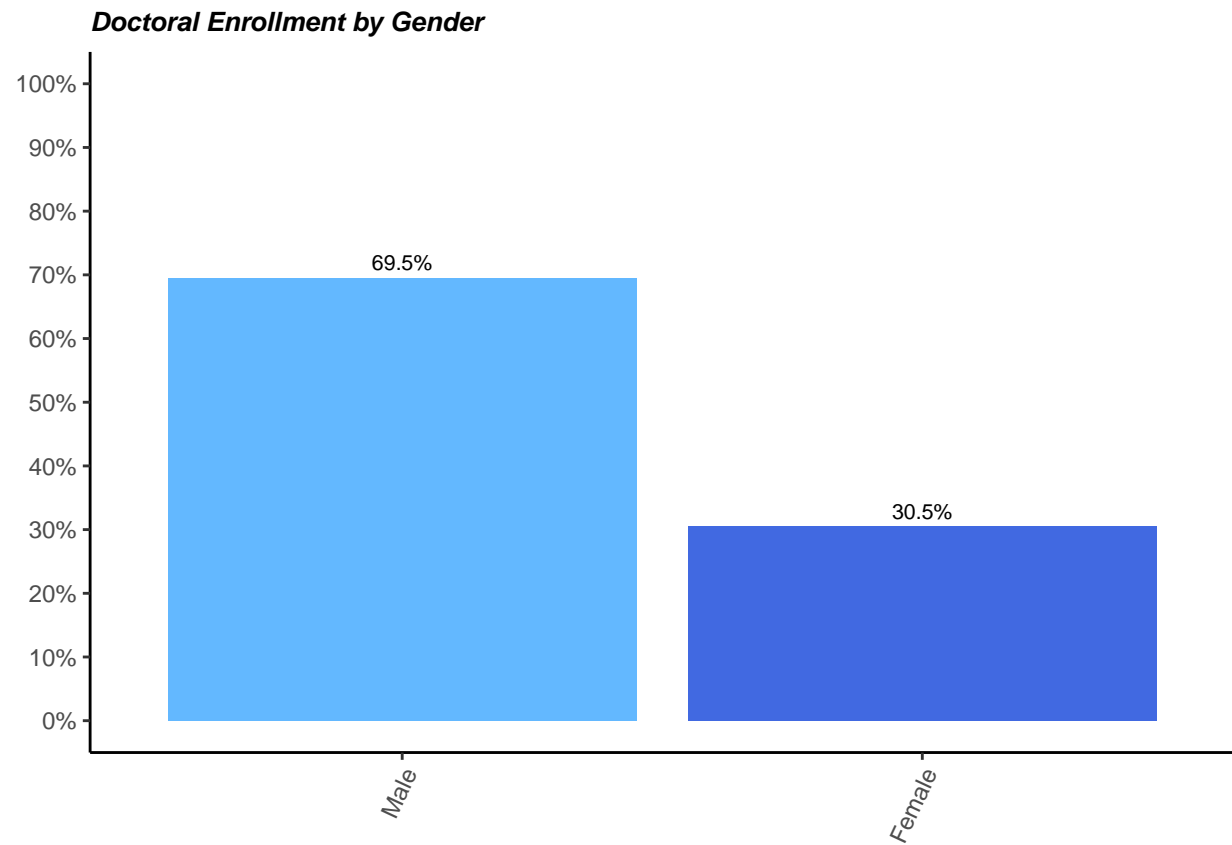
Table 72: Doctoral Enrollment by Engineering Discipline:(Full time and Part time)

Discipline Name	Full Time	Part Time
Aerospace	3,025	248
Architectural	108	6
Biological and Agricultural	798	54
Biomedical	9,105	349
Chemical	6,770	201
Civil	4,174	370
Civil/Environmental	2,426	242
Computer	1,561	173
Computer Engineering Technology	2	0
Computer Sci. (inside Eng.)	12,698	1,269
Computer Sci. (outside Engr.)	4,866	427
Electrical	5,709	531
Electrical/Computer	8,644	736
Engineering (General)	871	357
Engineering Management	225	131
Engineering Technology (General)	1	17
Engr. Science and Engr. Physics	762	25
Envr. Eng	1,317	41
Industrial/Manufacturing/Systems	2,826	739
Mechanical	10,822	831
Metallurgical and Matrls.	4,182	203
Mining	91	16
Nuclear	1,013	96
Other	5,670	720
Petroleum	396	37

3.2.3 Doctoral Enrollment by Gender

Table 73: Doctoral Enrollment by Gender

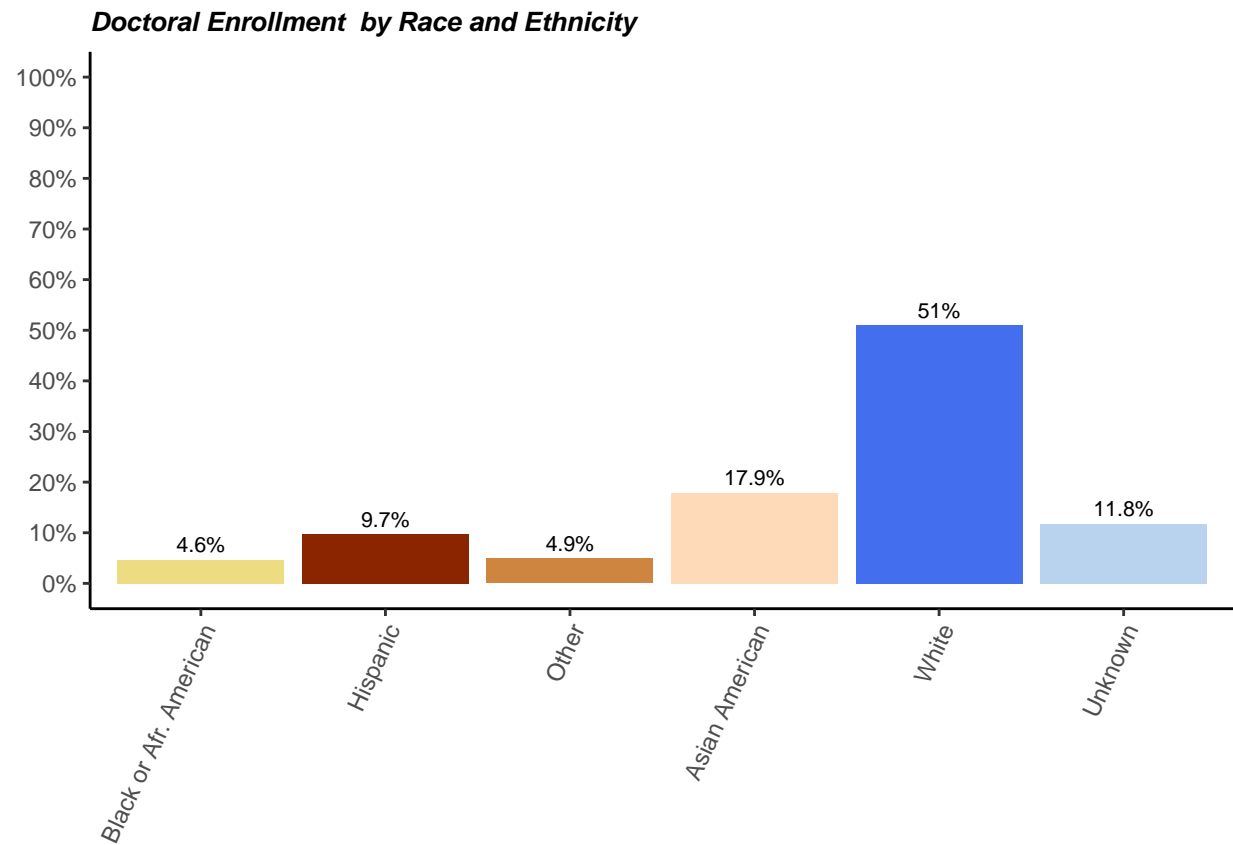
Gender	Percentage
Female	29.4%
Male	70.6%



3.2.4 Doctoral Enrollment by Race and Ethnicity

Table 74: Doctoral Enrollment by Race and Ethnicity*

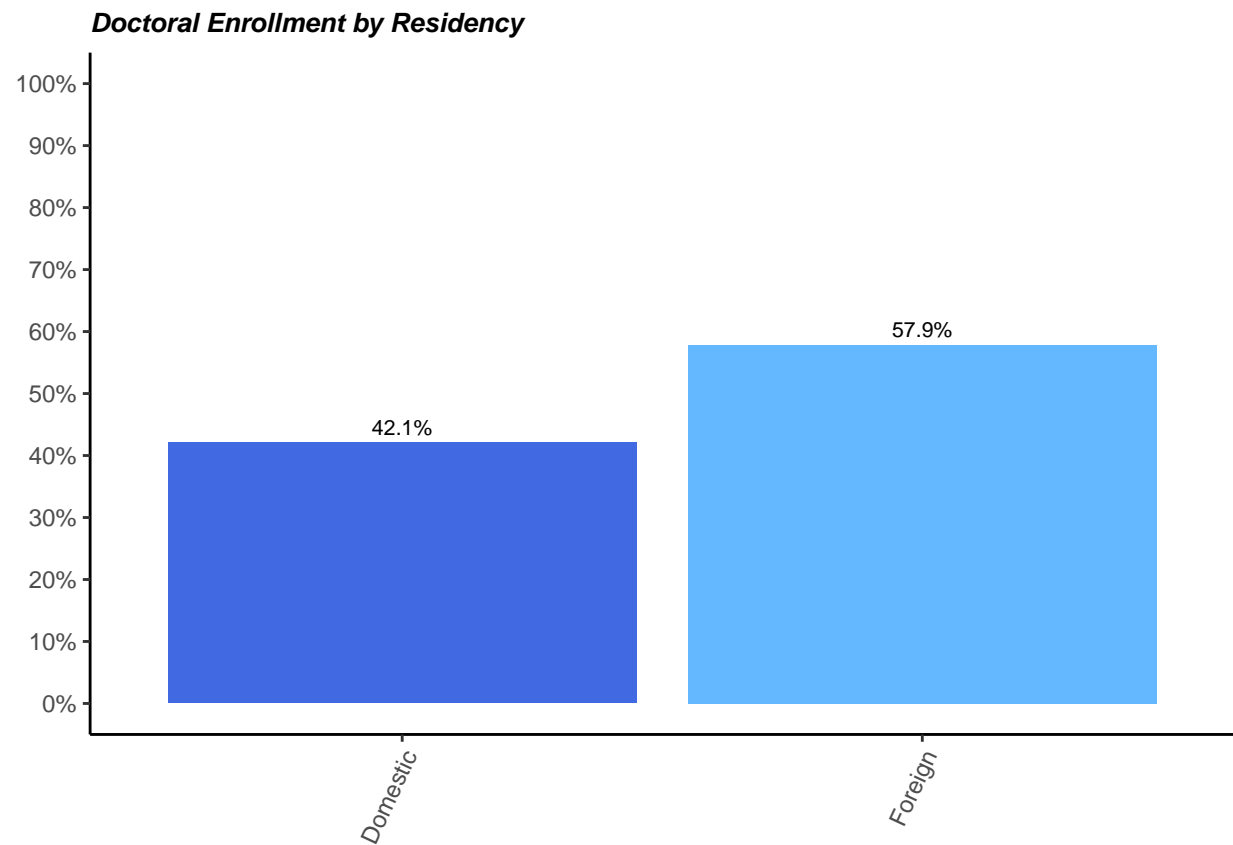
Ethnicity	Percentage
Black or Afr. American	4.9%
Hispanic	9.3%
Other	4.3%
Asian American	14.8%
White	57.6%
Unknown	9.1%



3.2.5 Doctoral Enrollment by Residency

Table 75: Doctoral Enrollment by Residency

Nationality	Percentage
Foreign	58.3%
Domestic	41.7%



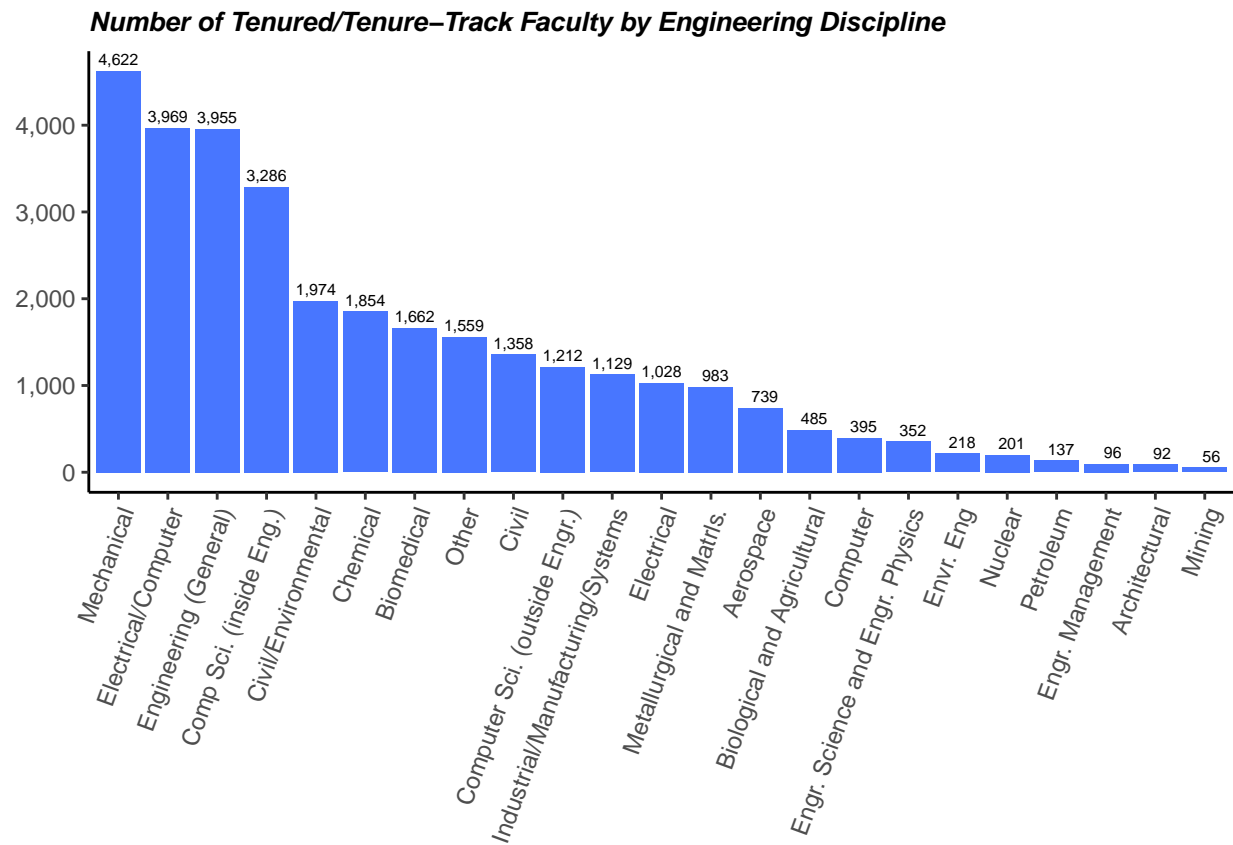
4 ENGINEERING FACULTY

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

Table 76: Number of Tenured/Tenure-Track Faculty by Engineering Discipline: 30,150

Discipline Name	Number of Faculty
Mechanical	4,622
Electrical/Computer	3,969
Engineering (General)	3,955
Comp Sci. (inside Eng.)	3,286
Civil/Environmental	1,974
Chemical	1,854
Biomedical	1,662
Other	1,559
Civil	1,358
Computer Sci. (outside Engr.)	1,212
Industrial/Manufacturing/Systems	1,129
Electrical	1,028
Metallurgical and Matrls.	983
Aerospace	739
Biological and Agricultural	485
Computer	395
Engr. Science and Engr. Physics	352
Envr. Eng	218
Nuclear	201
Petroleum	137
Engr. Management	96
Architectural	92
Mining	56

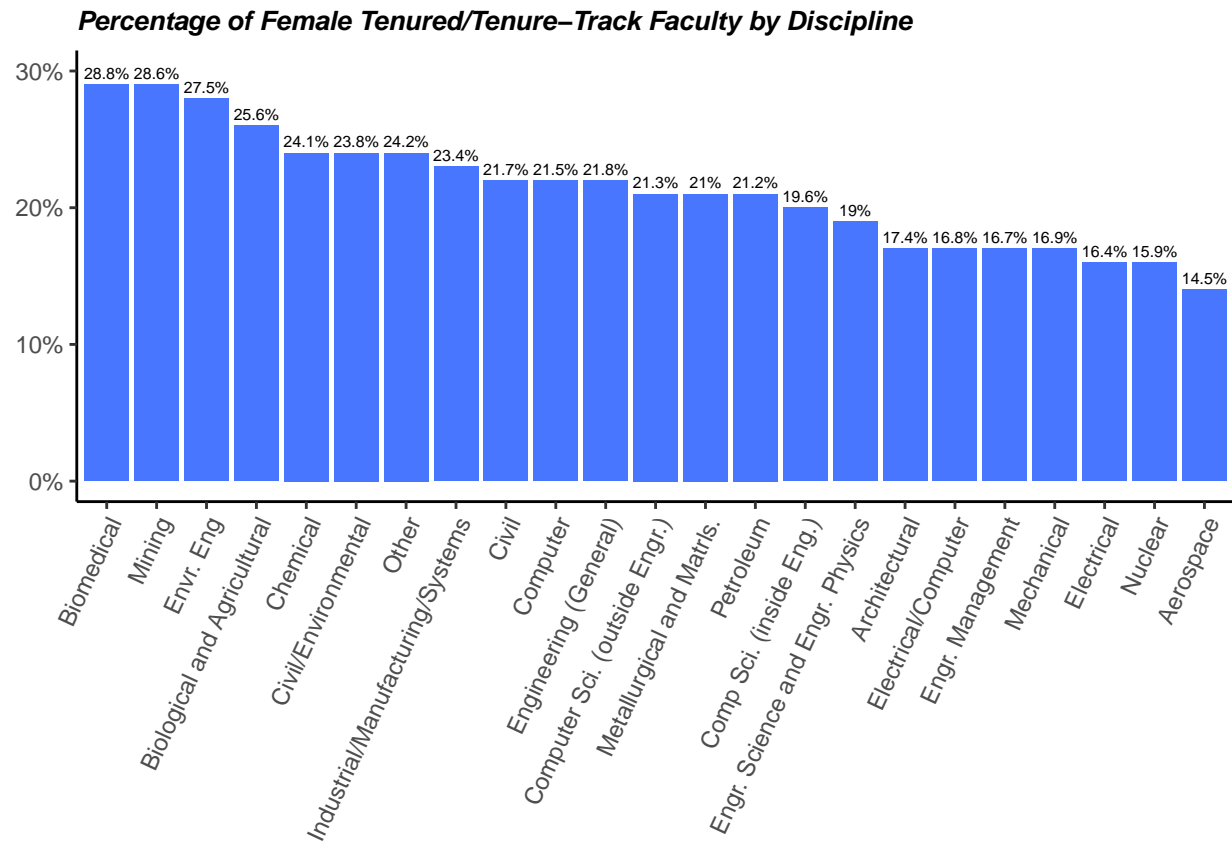
* Total does not include computer science (outside engineering).



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

Table 77: Percentage of Female Tenured/Tenure-Track Faculty by Discipline: 20.6 % of Total

Discipline Name	Percent Women
Biomedical	28.8%
Mining	28.6%
Envr. Eng	27.5%
Biological and Agricultural	25.6%
Other	24.2%
Chemical	24.1%
Civil/Environmental	23.8%
Industrial/Manufacturing/Systems	23.4%
Engineering (General)	21.8%
Civil	21.7%
Computer	21.5%
Computer Sci. (outside Engr.)	21.3%
Petroleum	21.2%
Metallurgical and Matrls.	21%
Comp Sci. (inside Eng.)	19.6%
Engr. Science and Engr. Physics	19%
Architectural	17.4%
Mechanical	16.9%
Electrical/Computer	16.8%
Engr. Management	16.7%
Electrical	16.4%
Nuclear	15.9%
Aerospace	14.5%



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	533
2	University of Illinois at Urbana-Champaign	474
3	Texas A&M University	470
4	University of Michigan	454
5	North Carolina State University	411
6	The Pennsylvania State University	408
7	Purdue University	395
7	Virginia Polytechnic Institute and State University	395
9	Massachusetts Institute of Technology	394
10	Arizona State University	382
11	The University of Texas at Austin	350
12	University of Minnesota -Twin Cities	341
13	Carnegie Mellon University	337
14	University of Florida	319
15	Florida Atlantic University	316
16	University of California, Santa Barbara	314

Table 78: Top 50 Institutions by Number of Tenured/Tenure-Track Faculty (*continued*)

No	Institutions	Number of Faculty
17	University of Wisconsin-Madison	308
18	The Ohio State University	305
19	University of Washington in Seattle	304
20	Cornell University	300
21	The University of Tennessee-Chattanooga	284
22	Stanford University	279
23	Northeastern University	274
24	University of Maryland, College Park	273
25	Iowa State University	256
25	University of California, Berkeley	256
25	University of California, San Diego	256
28	Clemson University	251
29	The Johns Hopkins University	246
30	University of California, Irvine	236
31	Michigan State University	233
32	Columbia University	221
33	University of Utah	218
34	University at Buffalo, SUNY	216
34	University of Alaska Anchorage	216
36	Oregon State University	214
37	University of Southern California	212
38	Colorado School of Mines	208
39	University of Tennessee, Knoxville	204
40	University of Massachusetts Amherst	201
41	University of California, Los Angeles	199
42	University of California, Davis	197
43	Rose-Hulman Institute of Technology	195
44	University of Central Florida	187
45	Princeton University	186
45	University of Virginia	186
47	Stony Brook University	185
48	The University of Texas at Arlington	184
49	Northwestern University	182
50	Auburn University	181

* 300 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	98
2	The University of Tennessee-Chattanooga	74
3	Florida Atlantic University	45
4	Texas A&M University	44
5	University of Florida	41
6	Massachusetts Institute of Technology	40
7	Purdue University	37
8	The University of Texas at El Paso	36
9	The University of Texas at San Antonio	33
9	Virginia Polytechnic Institute and State University	33
11	Georgia Institute of Technology	32
12	Howard University	30
12	Stanford University	30
14	Rochester Institute of Technology	28
15	The Ohio State University	27
15	The Pennsylvania State University	27
15	University of California, San Diego	27
18	University of Michigan	26
19	The University of Texas at Austin	25
20	University of Illinois at Urbana-Champaign	24

* 300 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

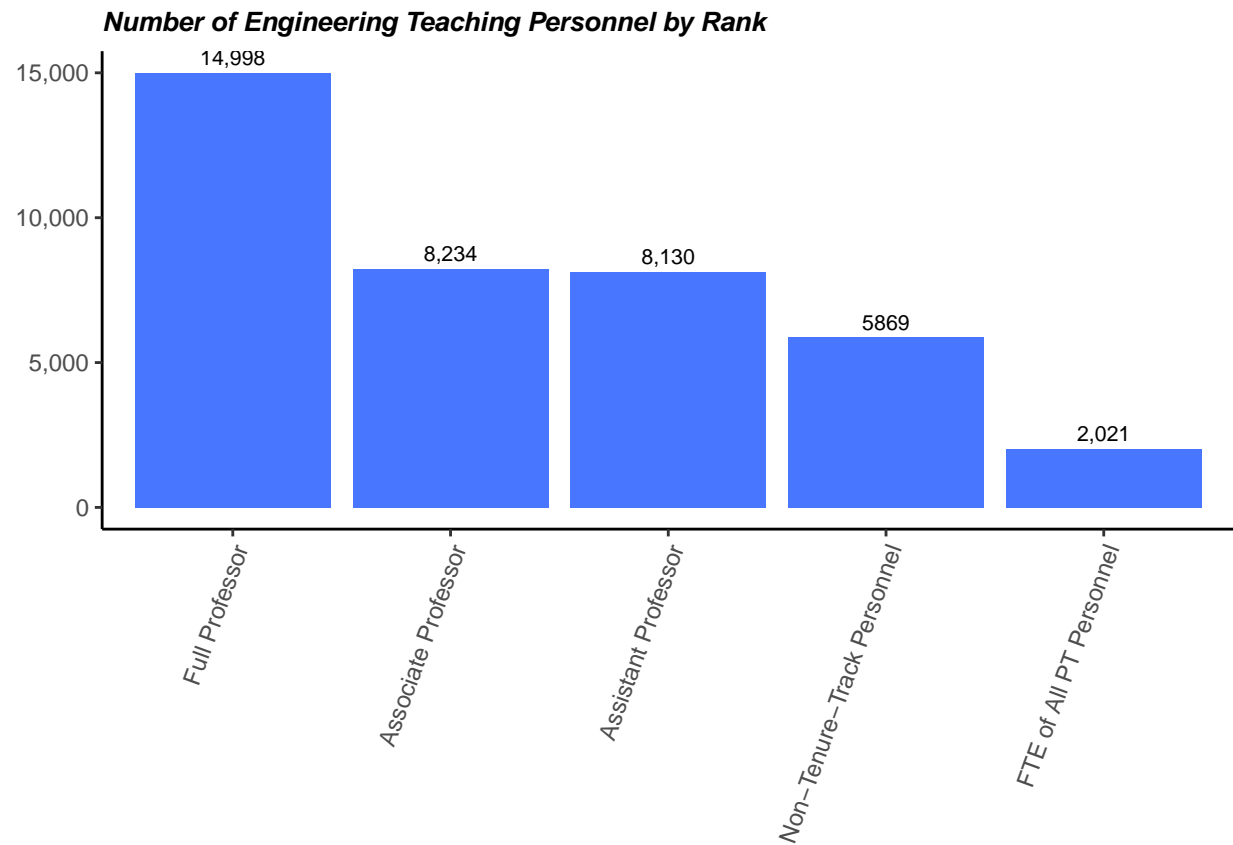
No	Institutions	Percent Underrepresented Minorities
1	University of Puerto Rico, Mayaguez Campus	68.1%
2	Virginia State University	60%
3	Howard University	54.5%
4	Morgan State University	50%
5	The University of Texas at El Paso	34.6%
6	Loyola University Chicago	33.3%
7	Jackson State University	31.2%
8	Central State University	30.8%
9	Rochester Institute of Technology	28%
10	The 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	21.3%
14	Winona State University	20%
15	The University of Texas Rio Grande Valley	19%
16	Elizabethtown College	18.2%
16	James Madison University	18.2%
18	North Carolina A&T State University	18.1%
19	Liberty University	17.6%
19	The University of New Mexico	17.6%

* 300 Institutions included

4.6 Number of Engineering Teaching Personnel by Rank

Table 81: Number of Engineering Teaching Personnel by Rank 39,252

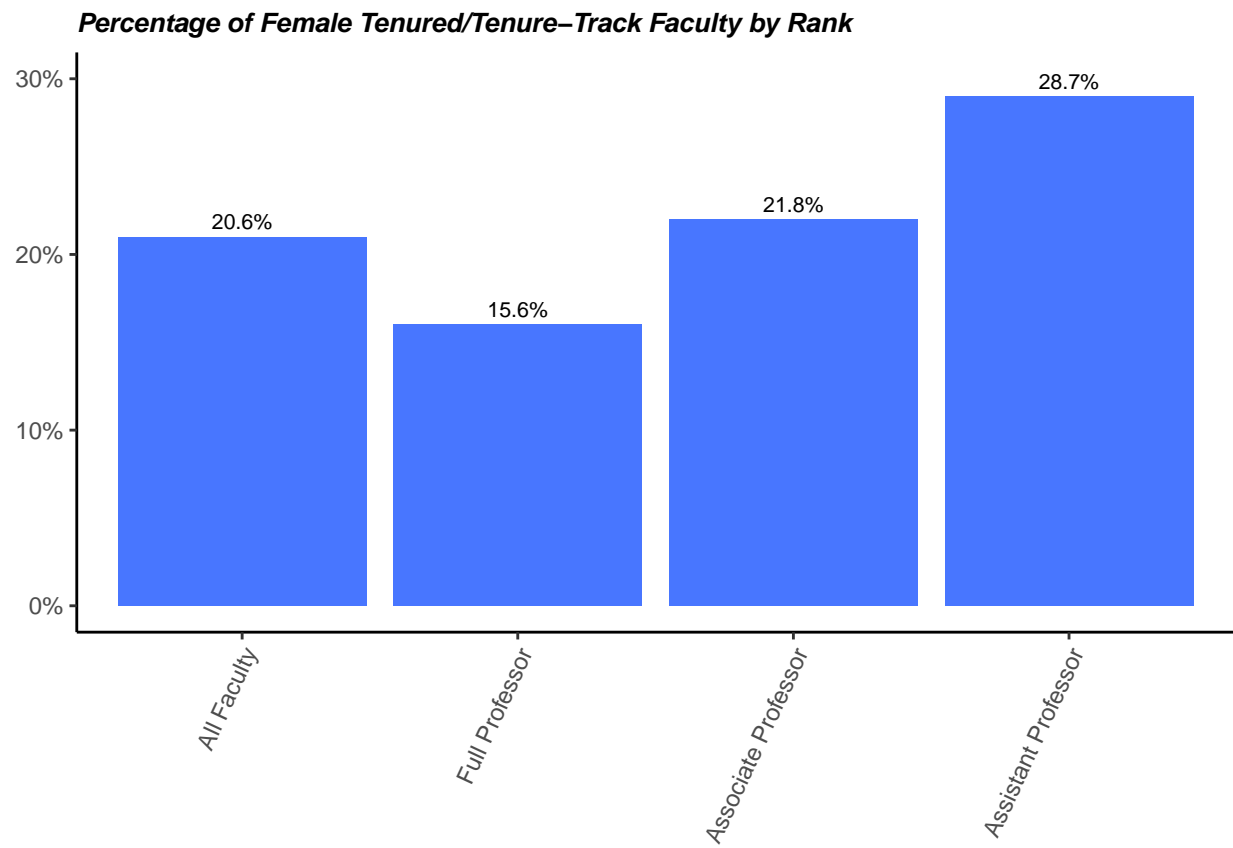
Rank	Number of Faculty
Full Professor	14,998
Associate Professor	8,234
Assistant Professor	8,130
Non-Tenure-Track Personnel	5869
FTE of All PT Personnel	2,021



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	20.6%
Full Professor	15.6%
Associate Professor	21.8%
Assistant Professor	28.7%



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	42.4%
10	Harvey Mudd College	42.1%
11	Seattle University	40%
12	University of Bridgeport	38.9%
13	Lafayette College	36.7%
14	San Jose State University	36.3%
15	University of Massachusetts Lowell	36.1%
16	Santa Clara University	35.4%
17	University of Portland	35%
18	Loyola Marymount University	34.4%
19	Loyola University Chicago	33.3%
19	Mercer University	33.3%
19	Middle Tennessee State University	33.3%
19	Union College	33.3%
19	University of Saint Thomas	33.3%
24	New York Institute of Technology	31.4%
25	University of the District of Columbia	31.2%
26	California Baptist University	31%
27	University of Colorado Boulder	30.8%
28	University of Florida	30.1%
29	California State University, Long Beach	29.5%
30	Roger Williams University	29.4%
31	Ohio Northern University	29.3%
32	Rowan University	29.2%
33	Gonzaga University	29%
34	Colorado School of Mines	28.8%
35	Texas Christian University	28.6%
35	University of Washington-Tacoma	28.6%
35	Valparaiso University	28.6%
38	University of Puerto Rico, Mayaguez Campus	28.5%
39	Oregon State University	28%
40	University of Washington in Seattle	28%
41	Temple University	27.8%
41	University of New Haven	27.8%
43	The Johns Hopkins University	27.6%
44	Bucknell University	27.5%
45	Northeastern University	27.4%
46	Cornell University	27.3%
47	Elizabethtown College	27.3%
47	Grand Valley State University	27.3%
47	Howard University	27.3%
50	The University of Texas at San Antonio	27.1%

* 300 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	121
2	Georgia Institute of Technology	117
3	University of Illinois at Urbana-Champaign	106
4	University of Florida	96
5	Massachusetts Institute of Technology	92
6	The Pennsylvania State University	91
7	Arizona State University	89
7	North Carolina State University	89
9	Carnegie Mellon University	87
10	University of Washington in Seattle	85
10	Virginia Polytechnic Institute and State University	85
12	Cornell University	82
13	Texas A&M University	81
14	Purdue University	77
14	The Ohio State University	77
16	The University of Texas at Austin	76
17	Northeastern University	75
18	Stanford University	74
19	University of California, Santa Barbara	70
20	The Johns Hopkins University	68

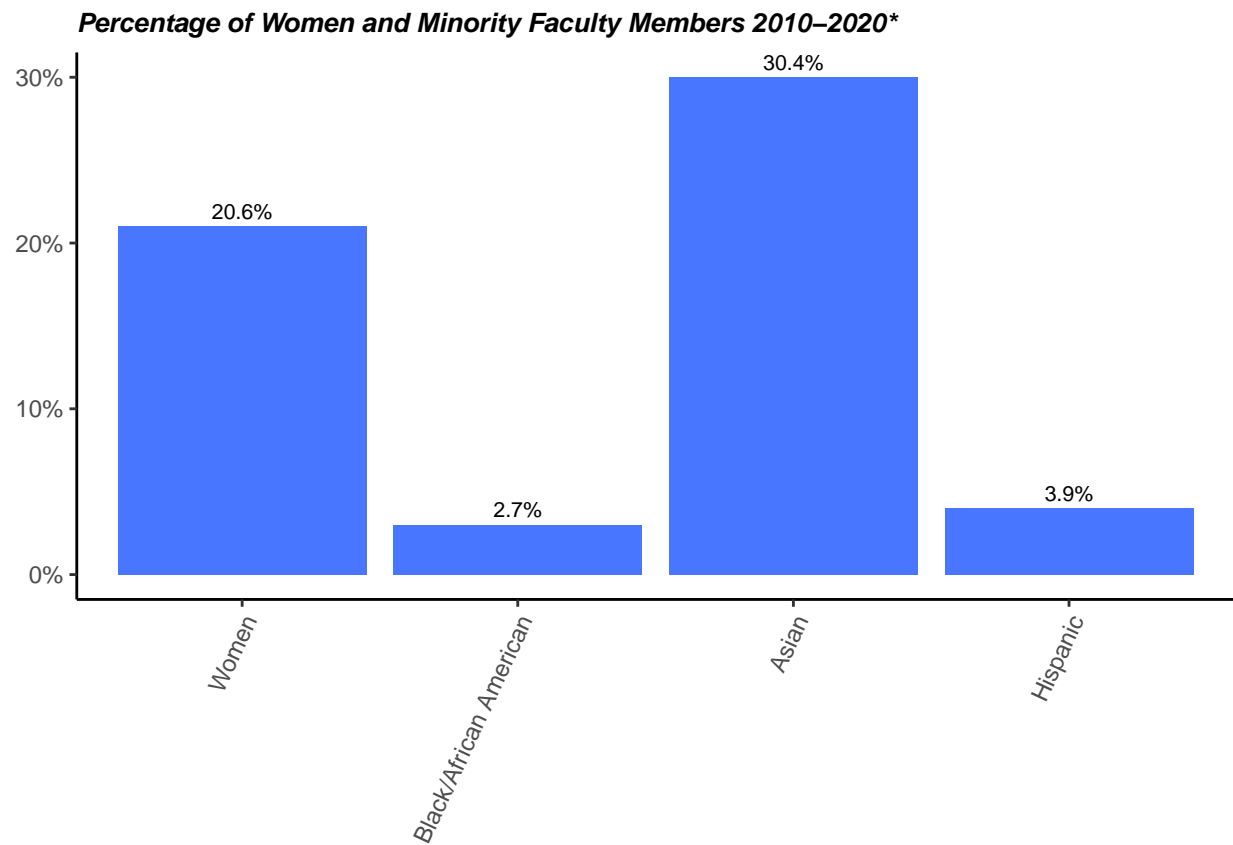
* 300 Institutions included

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.

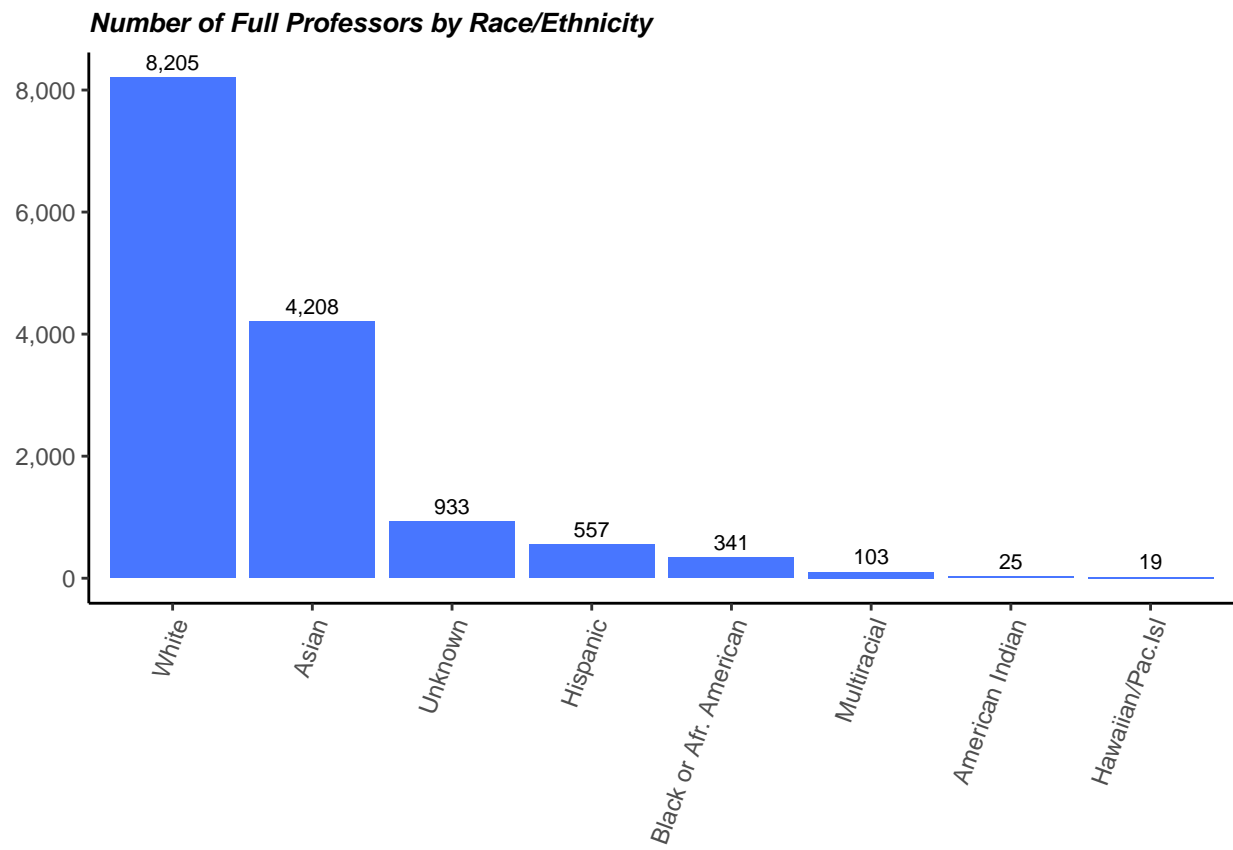


4.11 Number of Full Professors by Race/Ethnicity

Table 86: Number of Full Professors by Race/Ethnicity: 14,391

Ethnicity	Number of Faculty
White	8,205
Asian	4,208
Unknown	933
Hispanic	557
Black or Afr. American	341
Multiracial	103
American Indian	25
Hawaiian/Pac.Isl	19

* Includes 120 Faculty from Institutions in Puerto Rico.
* Computer Science(Outside Engineering) has been removed

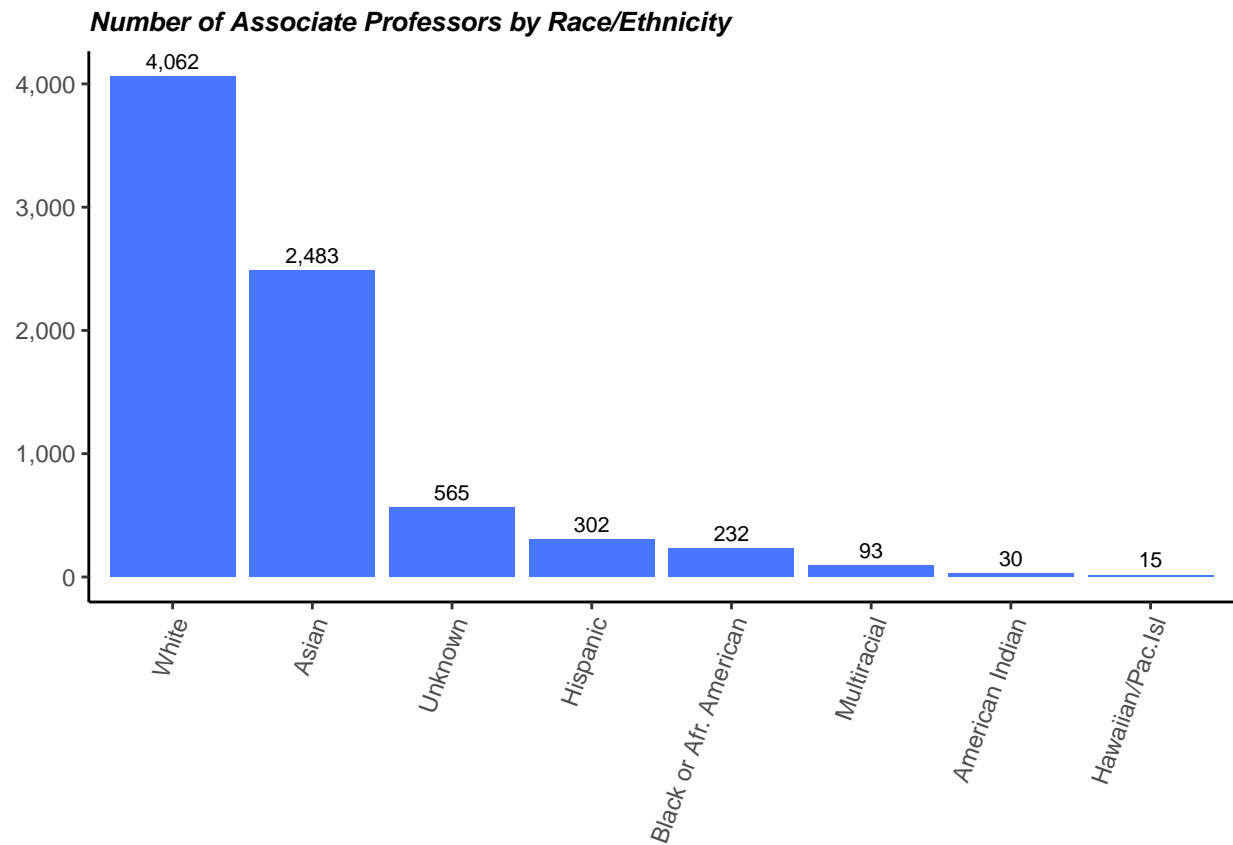


4.12 Number of Associate Professors by Race/Ethnicity

Table 87: Number of Associate Professors by Race/Ethnicity: 7,782

Ethnicity	Number of Faculty
White	4,062
Asian	2,483
Unknown	565
Hispanic	302
Black or Afr. American	232
Multiracial	93
American Indian	30
Hawaiian/Pac.Isl	15

* Includes 7 Faculty from Institutions in Puerto Rico.
* Computer Science(Outside Engineering) has been removed

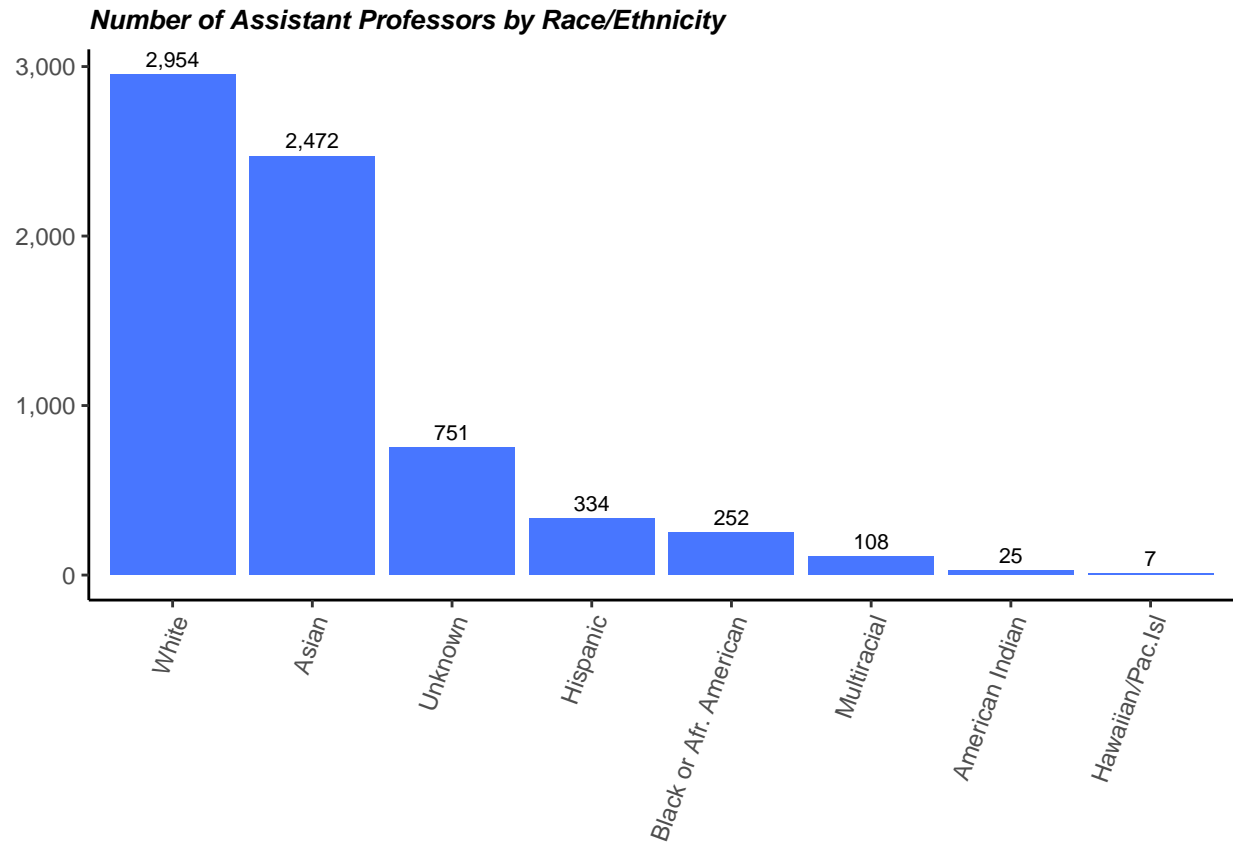


4.13 Number of Assistant Professors by Race/Ethnicity

Table 88: Number of Assistant Professors by Race/Ethnicity: 6,903

Ethnicity	Number of Faculty
White	2,954
Asian	2,472
Unknown	751
Hispanic	334
Black or Afr. American	252
Multiracial	108
American Indian	25
Hawaiian/Pac.Isl	7

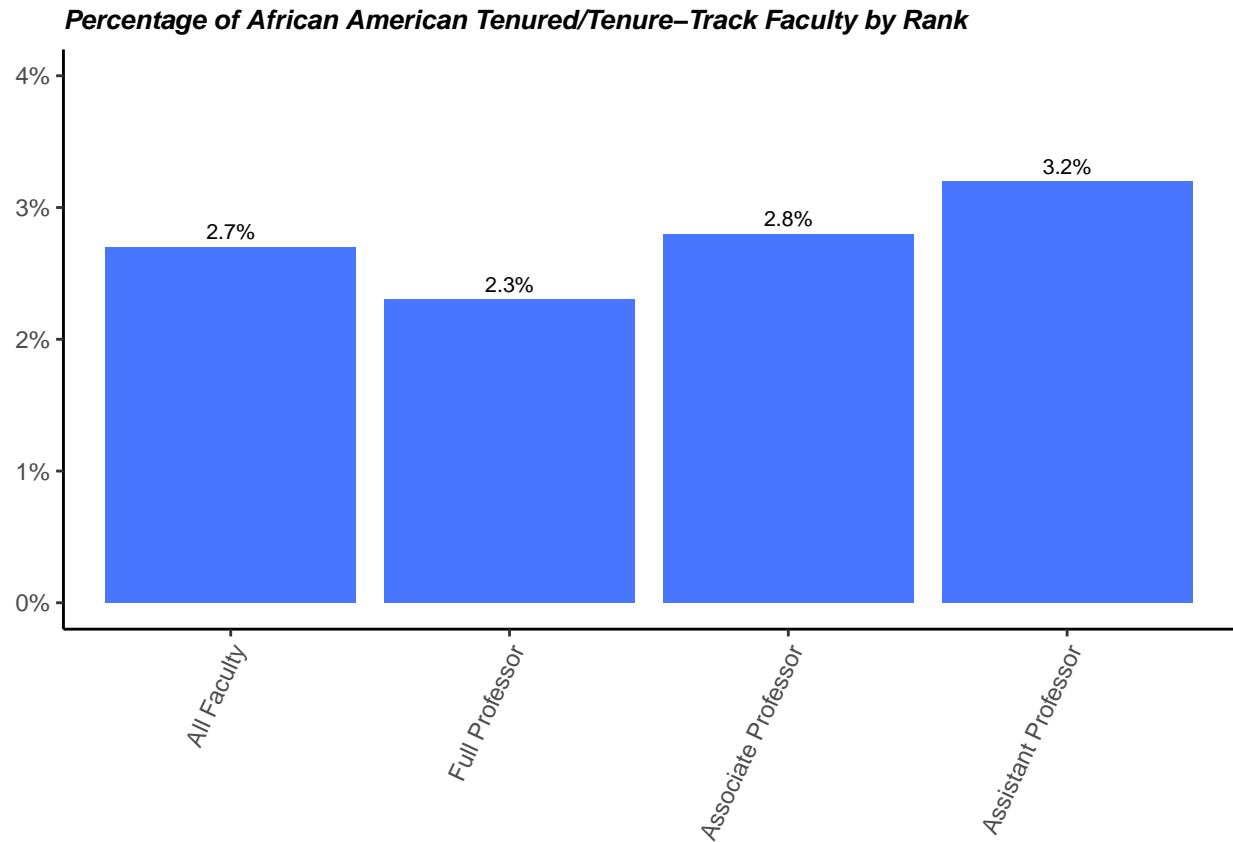
* Includes 17 Faculty from Institutions in Puerto Rico.
 * Computer Science(Outside Engineering) has been removed



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

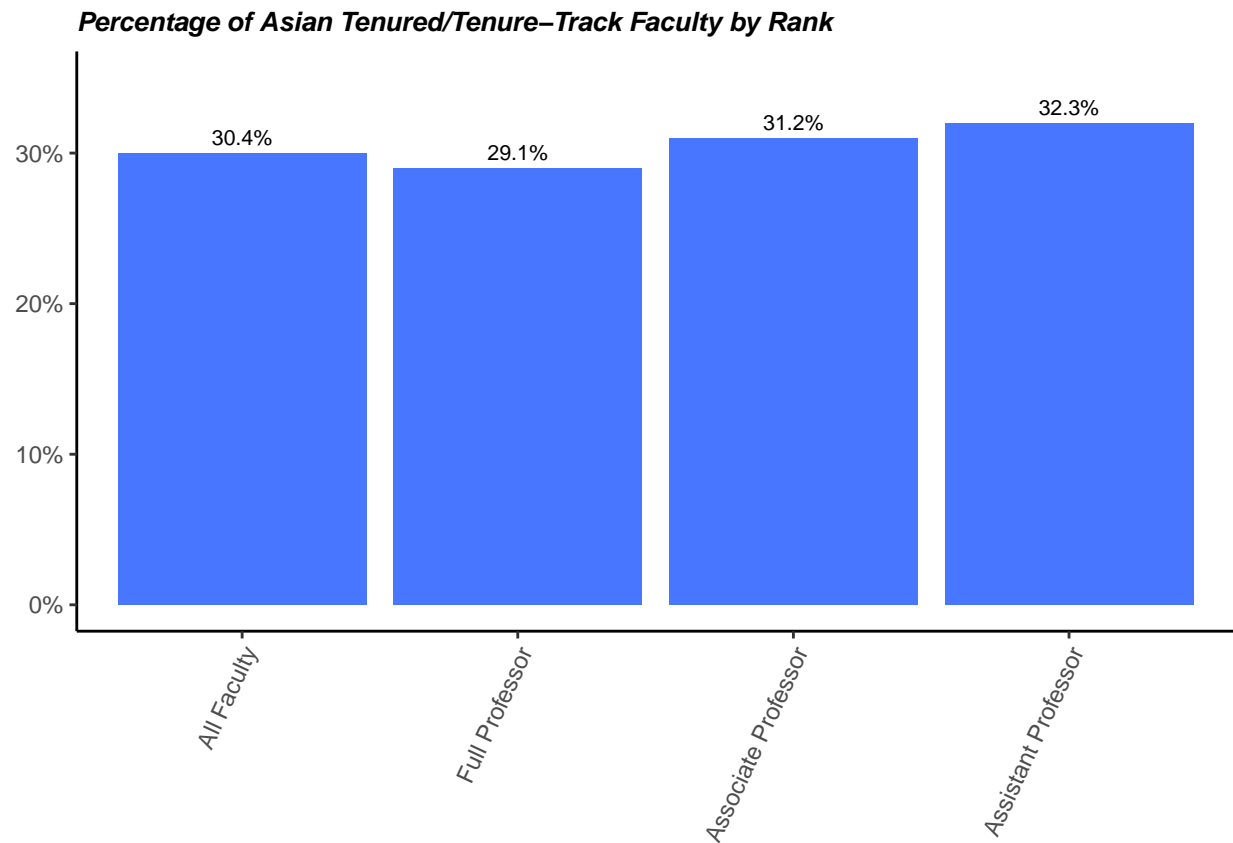
Rank	Percent
All Faculty	2.7%
Full Professor	2.3%
Associate Professor	2.8%
Assistant Professor	3.2%



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

Table 90: Percentage of Asian Tenured/Tenure-Track Faculty by Rank

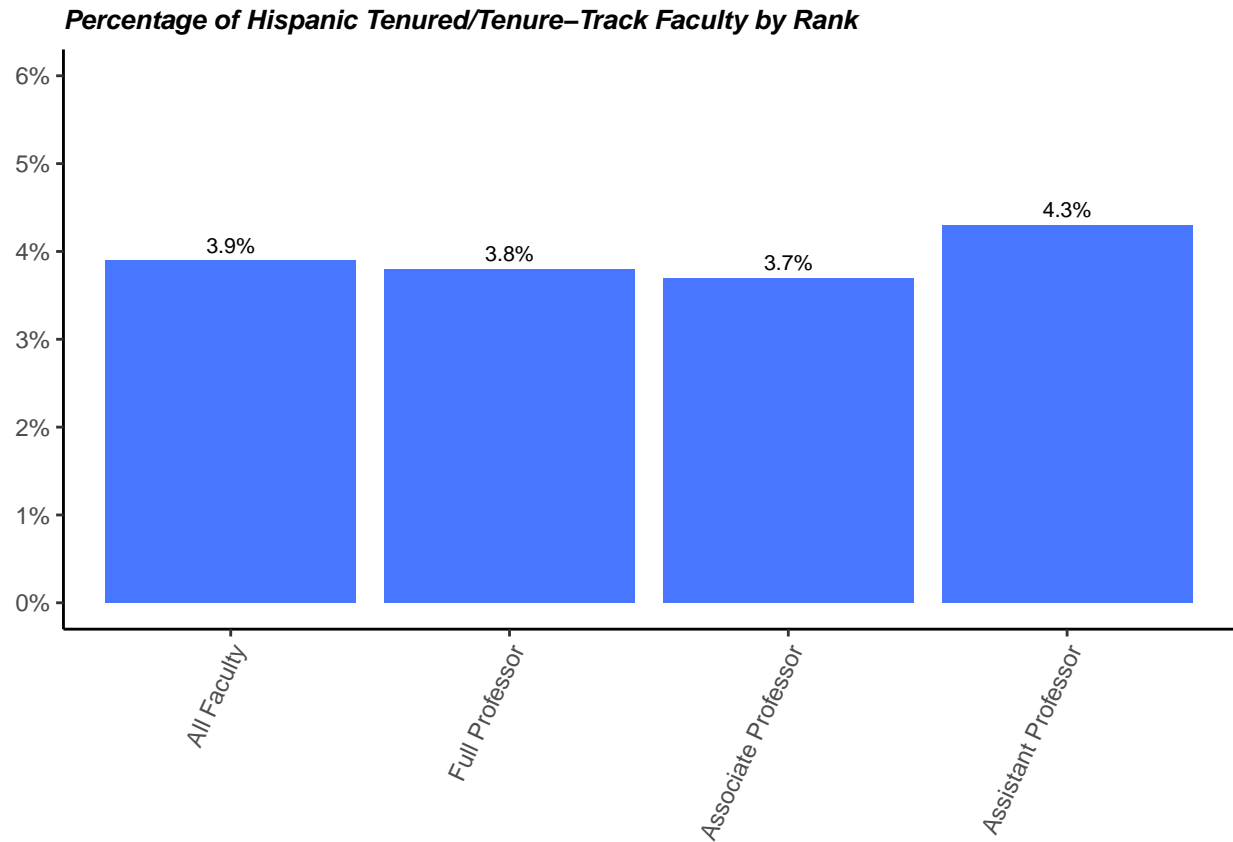
Rank	Percent
All Faculty	30.4%
Full Professor	29.1%
Associate Professor	31.2%
Assistant Professor	32.3%



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	3.8%
Associate Professor	3.7%
Assistant Professor	4.3%



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	58
2	Howard University	27
3	University of Florida	22
4	Georgia Institute of Technology	19
5	Morgan State University	18
6	FAMU-FSU College of Engineering	17
7	Massachusetts Institute of Technology	15
7	University of Michigan	15
9	North Carolina A&T State University	14
9	Virginia Polytechnic Institute and State University	14
11	North Carolina State University	12
11	The Johns Hopkins University	12
13	Stanford University	11
13	The Ohio State University	11
13	University of California, Berkeley	11
16	Carnegie Mellon University	10
16	Florida Atlantic University	10
16	Texas A&M University	10
19	Missouri University of Science and Technology	9
19	University of California, Irvine	9

* 300 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	189
2	Texas A&M University	171
3	Purdue University	156
4	University of Illinois at Urbana-Champaign	155
5	Florida Atlantic University	147
6	North Carolina State University	128
7	University of Michigan	120
8	Arizona State University	118
9	Iowa State University	116
9	The University of Texas at Austin	116
11	Virginia Polytechnic Institute and State University	108
12	The University of Texas at Arlington	106
12	University at Buffalo, SUNY	106
14	Michigan State University	105
15	University of Minnesota -Twin Cities	103
16	The Ohio State University	101
16	University of California, Los Angeles	101
16	University of Florida	101
19	University of Wisconsin-Madison	96
20	Carnegie Mellon University	95

* 300 Institutions included

4.19 Hispanic Tenured/Tenure Track Faculty by Institutions

Table 94: Hispanic Tenured/Tenure Track Faculty by Institutions

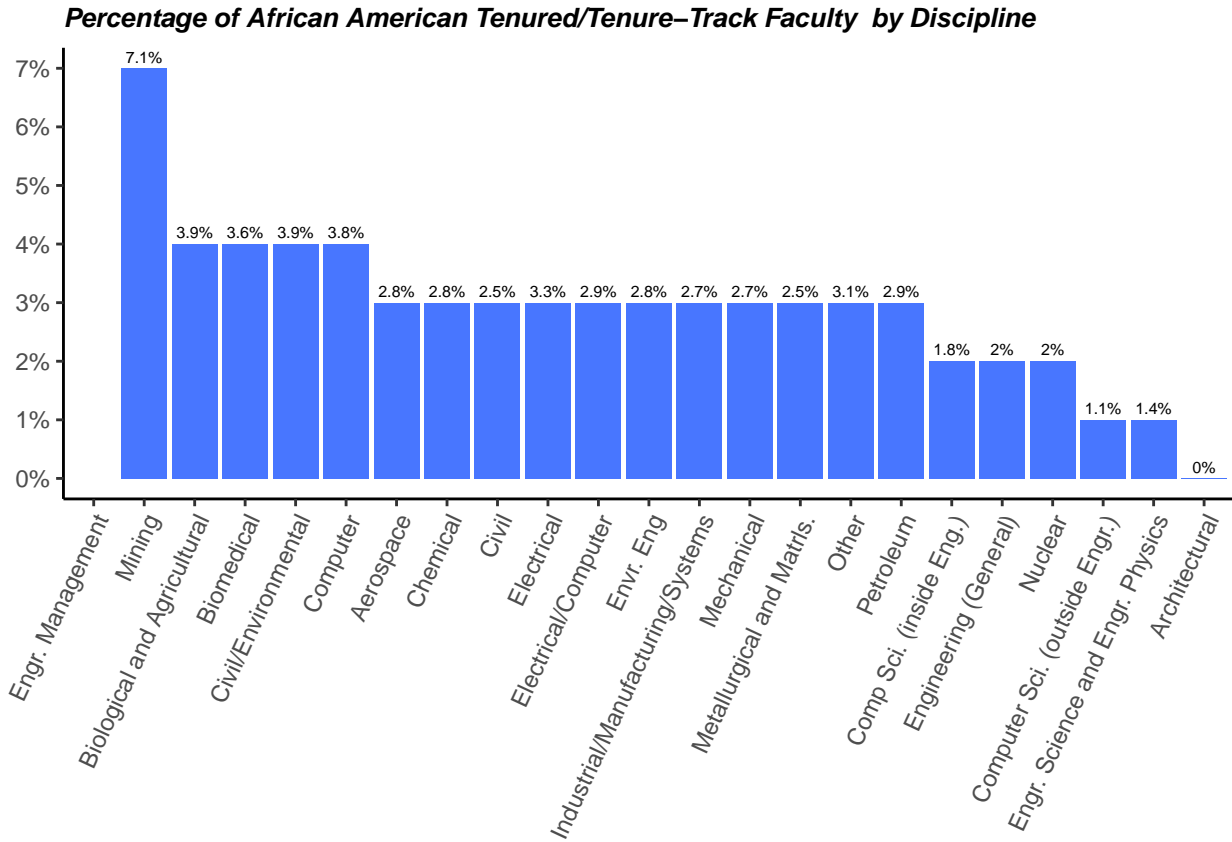
No	Institutions	Number of Faculty
1	University of Puerto Rico, Mayaguez Campus	98
2	The University of Texas at El Paso	36
3	Florida Atlantic University	35
4	Texas A&M University	33
5	Purdue University	30
6	The University of Texas at San Antonio	29
7	Massachusetts Institute of Technology	25
8	University of California, San Diego	20
9	The Pennsylvania State University	19
9	University of Florida	19
9	University of Illinois at Urbana-Champaign	19
12	Stanford University	18
12	The University of New Mexico	18
14	The University of Texas at Austin	17
15	The Ohio State University	16
15	Virginia Polytechnic Institute and State University	16
17	Arizona State University	14
18	Georgia Institute of Technology	13
18	University of Colorado Boulder	13
20	University of California, Berkeley	12

* 300 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

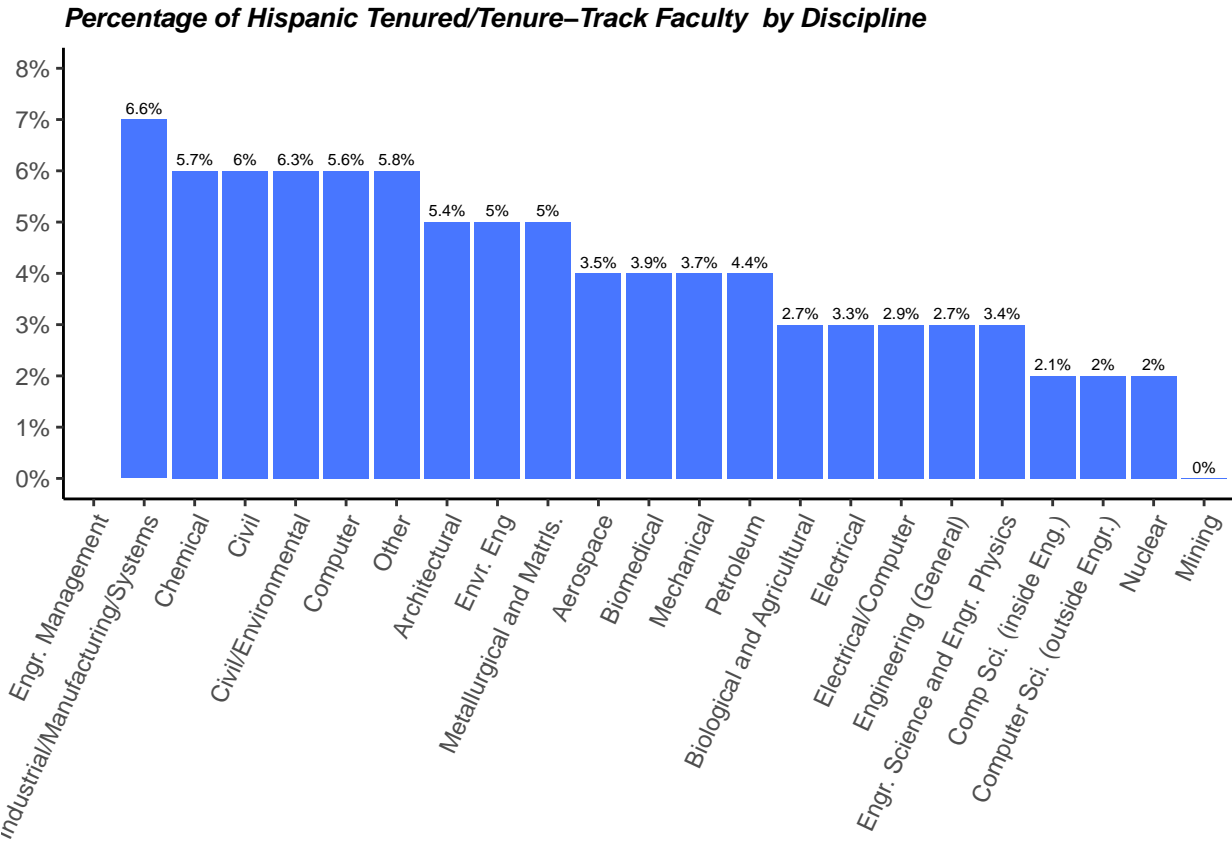
Discipline Name	Percentage
Engr. Management	8.3%
Mining	7.1%
Biological and Agricultural	3.9%
Civil/Environmental	3.9%
Computer	3.8%
Biomedical	3.6%
Electrical	3.3%
Other	3.1%
Electrical/Computer	2.9%
Petroleum	2.9%
Aerospace	2.8%
Chemical	2.8%
Envr. Eng	2.8%
Industrial/Manufacturing/Systems	2.7%
Mechanical	2.7%
Civil	2.5%
Metallurgical and Matrls.	2.5%
Engineering (General)	2%
Nuclear	2%
Comp Sci. (inside Eng.)	1.8%
Engr. Science and Engr. Physics	1.4%
Computer Sci. (outside Engr.)	1.1%
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

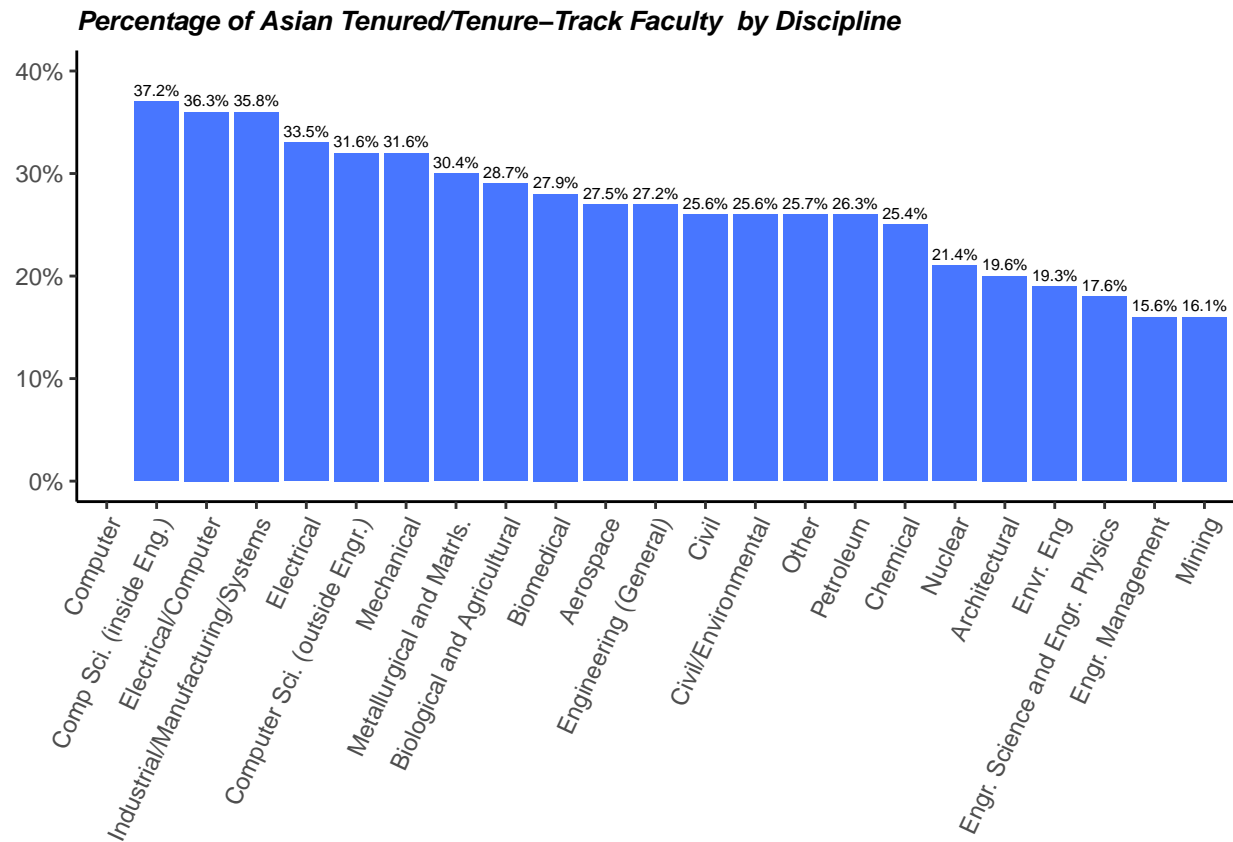
Discipline Name	Percentage
Engr. Management	9.4%
Industrial/Manufacturing/Systems	6.6%
Civil/Environmental	6.3%
Civil	6%
Other	5.8%
Chemical	5.7%
Computer	5.6%
Architectural	5.4%
Envr. Eng	5%
Metallurgical and Matrls.	5%
Petroleum	4.4%
Biomedical	3.9%
Mechanical	3.7%
Aerospace	3.5%
Engr. Science and Engr. Physics	3.4%
Electrical	3.3%
Electrical/Computer	2.9%
Biological and Agricultural	2.7%
Engineering (General)	2.7%
Comp Sci. (inside Eng.)	2.1%
Computer Sci. (outside Engr.)	2%
Nuclear	2%
Mining	0%



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

Table 97: Percentage of Asian Tenured/Tenure-Track Faculty by Discipline: 30.4 % of Total

Discipline Name	Percentage
Computer	41.5%
Comp Sci. (inside Eng.)	37.2%
Electrical/Computer	36.3%
Industrial/Manufacturing/Systems	35.8%
Electrical	33.5%
Computer Sci. (outside Engr.)	31.6%
Mechanical	31.6%
Metallurgical and Matrls.	30.4%
Biological and Agricultural	28.7%
Biomedical	27.9%
Aerospace	27.5%
Engineering (General)	27.2%
Petroleum	26.3%
Other	25.7%
Civil	25.6%
Civil/Environmental	25.6%
Chemical	25.4%
Nuclear	21.4%
Architectural	19.6%
Envr. Eng	19.3%
Engr. Science and Engr. Physics	17.6%
Mining	16.1%
Engr. Management	15.6%



5 ENGINEERING RESEARCH EXPENDITURES

5.1 Top 50 Research Expenditure by Institutions

Table 98: Top 50 Research Expenditure by Institutions

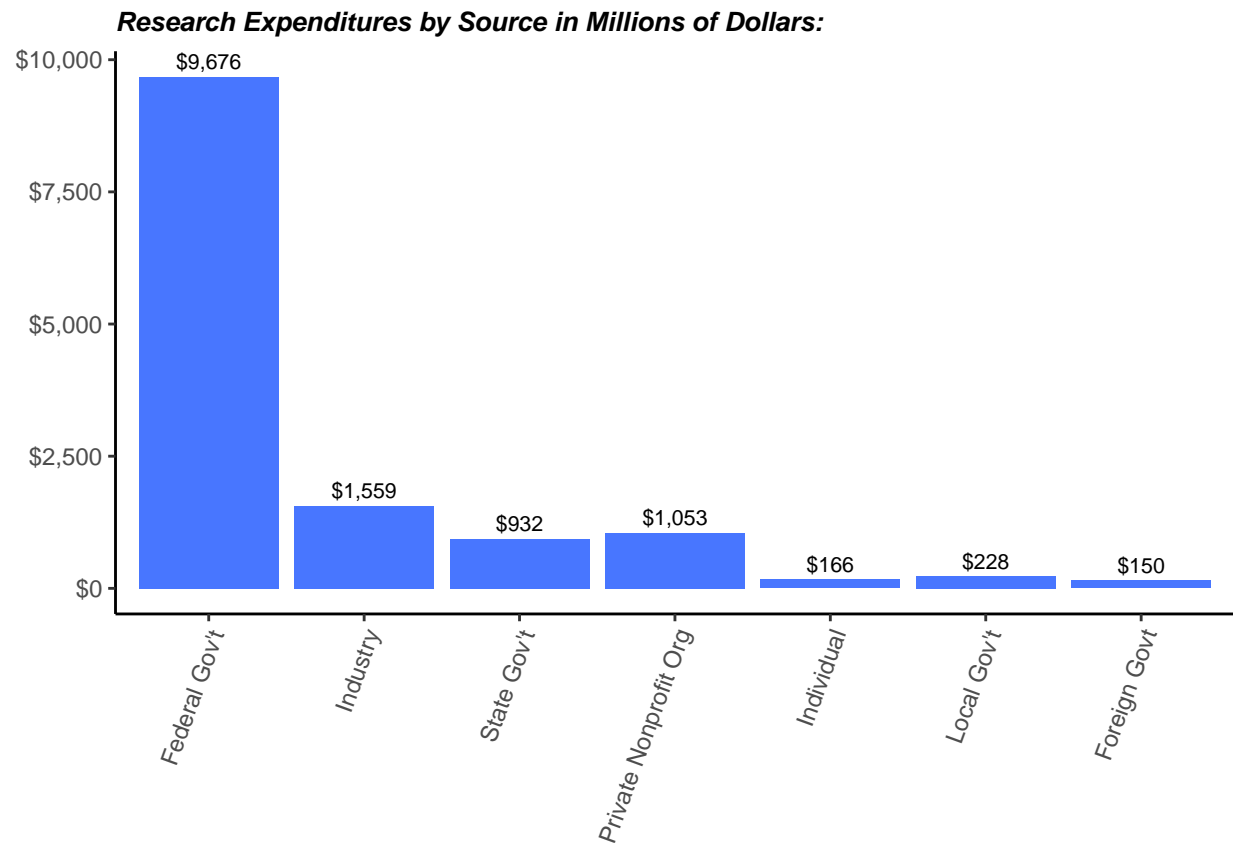
No	Institution	Expenditure(IN MILLIONS)
1	Texas A&M University	\$463.1
2	Georgia Institute of Technology	\$457.8
3	Massachusetts Institute of Technology	\$447.9
4	The University of Texas at Austin	\$442.9
5	Purdue University	\$431.7
6	Carnegie Mellon University	\$340.9
7	University of Michigan	\$332.4
8	University of Illinois at Urbana-Champaign	\$314.4
9	University of California, San Diego	\$305.9
10	University of California, Berkeley	\$303.7
11	Stanford University	\$297.1
12	University of Maryland, College Park	\$284.1
13	The Johns Hopkins University	\$262.8
14	North Carolina State University	\$258.5
15	The Ohio State University	\$207.1
16	Cornell University	\$206
17	Duke University	\$201.2
18	University of Colorado Boulder	\$196.7
19	University of Washington in Seattle	\$193.3
20	University of Southern California	\$189.6
21	University of Wisconsin-Madison	\$181.5
22	Virginia Polytechnic Institute and State University	\$174.9
23	Northwestern University	\$174.2
24	The Pennsylvania State University	\$160.3
25	Arizona State University	\$156.1
26	Boston University	\$153
27	University of Minnesota -Twin Cities	\$147.6
28	University of Delaware	\$144.7
29	University of Rochester	\$140.7
30	University of California, Davis	\$139
31	University of California, Los Angeles	\$136.4
32	Northeastern University	\$135
33	Iowa State University	\$128.3
34	University of Pittsburgh	\$126.7
35	Colorado State University	\$120.8
36	University of Pennsylvania	\$118.3
37	University of California, Santa Barbara	\$118.2
38	University of California, Irvine	\$116.7
39	University of Florida	\$114.2
40	University at Buffalo, SUNY	\$113
41	University of Connecticut	\$108.7
42	Auburn University	\$103.7
43	Colorado School of Mines	\$102.6
44	William Marsh Rice University	\$101.9
45	University of Virginia	\$100.4
46	University of Tennessee, Knoxville	\$99.2
47	Vanderbilt University	\$90.1
48	Princeton University	\$90.1
49	FAMU-FSU College of Engineering	\$83.8
50	George Mason University	\$83.7

* 180 Institutions included

5.2 Research Expenditures by Source in Millions of Dollars

Table 99: Research Expenditures by Source in Millions of Dollars: \$13,764

Expenditure	Amount
Federal Gov't	\$9,676
Industry	\$1,559
State Gov't	\$932
Private Nonprofit Org	\$1,053
Individual	\$166
Local Gov't	\$228
Foreign Govt	\$150



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	\$178.7
2	The University of Texas at Austin	\$84.3
3	Georgia Institute of Technology	\$62.8
4	University of Maryland, College Park	\$38.7
5	The University of Alabama in Huntsville	\$34
6	Northeastern University	\$28.7
7	University of Wisconsin-Madison	\$26.6
8	University of Massachusetts Amherst	\$23.8
9	Purdue University	\$21.2
10	University of California, Irvine	\$18.7
11	Rensselaer Polytechnic Institute	\$13.2
12	Brown University	\$11.5
12	Rowan University	\$11.5
14	Rutgers, The State University of New Jersey, School of Engineering	\$10.3
15	Duke University	\$9.7
16	Worcester Polytechnic Institute	\$8.8
17	Dartmouth College	\$7.8
18	The University of Memphis	\$5.9
19	Boston University	\$5.8
20	The University of Texas at San Antonio	\$5.1

* 31 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	University of British Columbia	1,036
2	University of Alberta	878
3	McMaster University	861

6.2 Engineering Master’s Degree by Canadian Institutions

Table 102: Engineering Master’s Degree by Canadian Institutions

No	Institutions	Degrees Awarded
1	University of British Columbia	433
2	McMaster University	354
3	University of Alberta	341

6.3 Engineering Doctoral Degree by Canadian Institutions

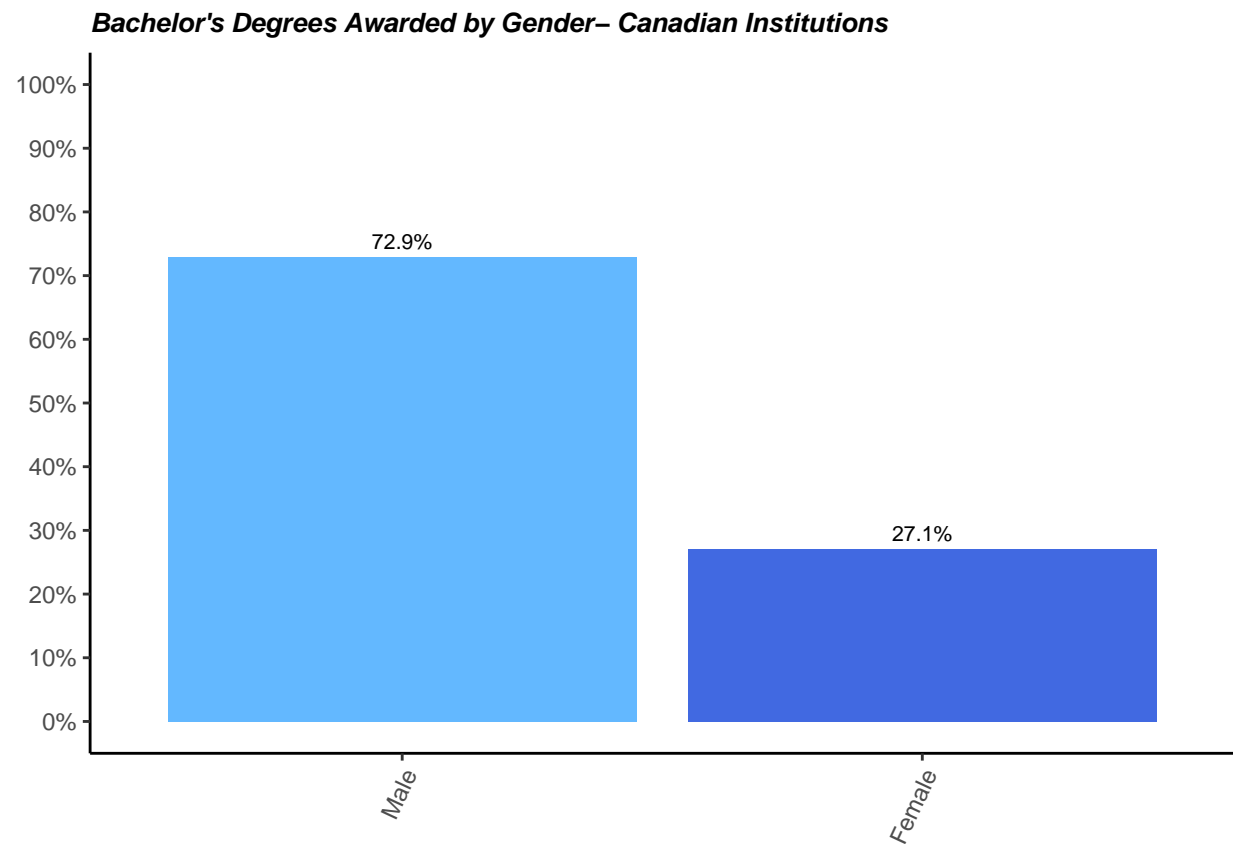
Table 103: Engineering Doctoral Degree by Canadian Institutions

No	Institutions	Degrees Awarded
1	University of Alberta	158
2	McMaster University	101
3	University of British Columbia	95

6.4 Bachelor’s Degrees Awarded by Gender- Canadian Institutions

Table 104: Bachelor’s Degrees Awarded by Gender- Canadian Institutions

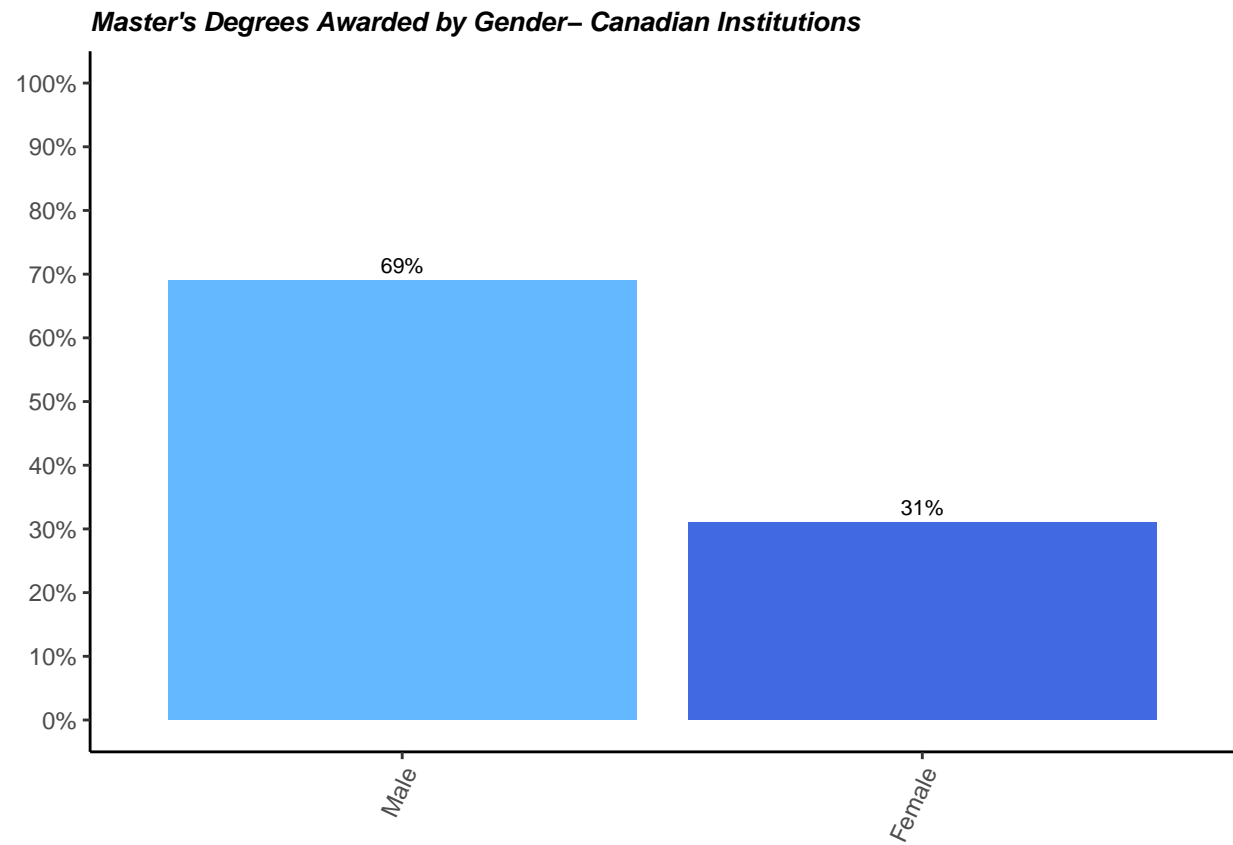
Gender	Percentage
Female	26.8%
Male	73.2%



6.5 Master’s Degrees Awarded by Gender- Canadian

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

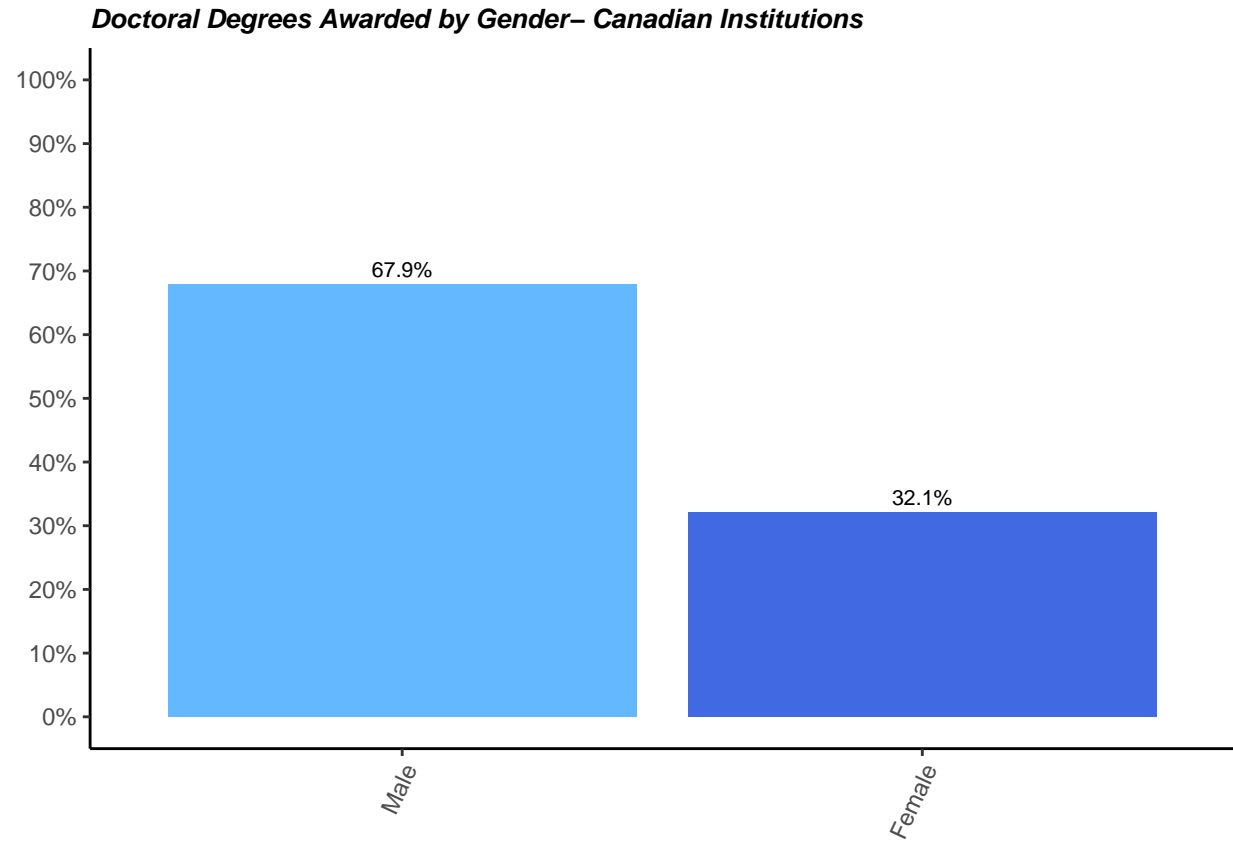
Gender	Percentage
Female	30.2%
Male	69.8%



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%



6.7 Tenured/Tenure-Track Faculty Members by Institutions

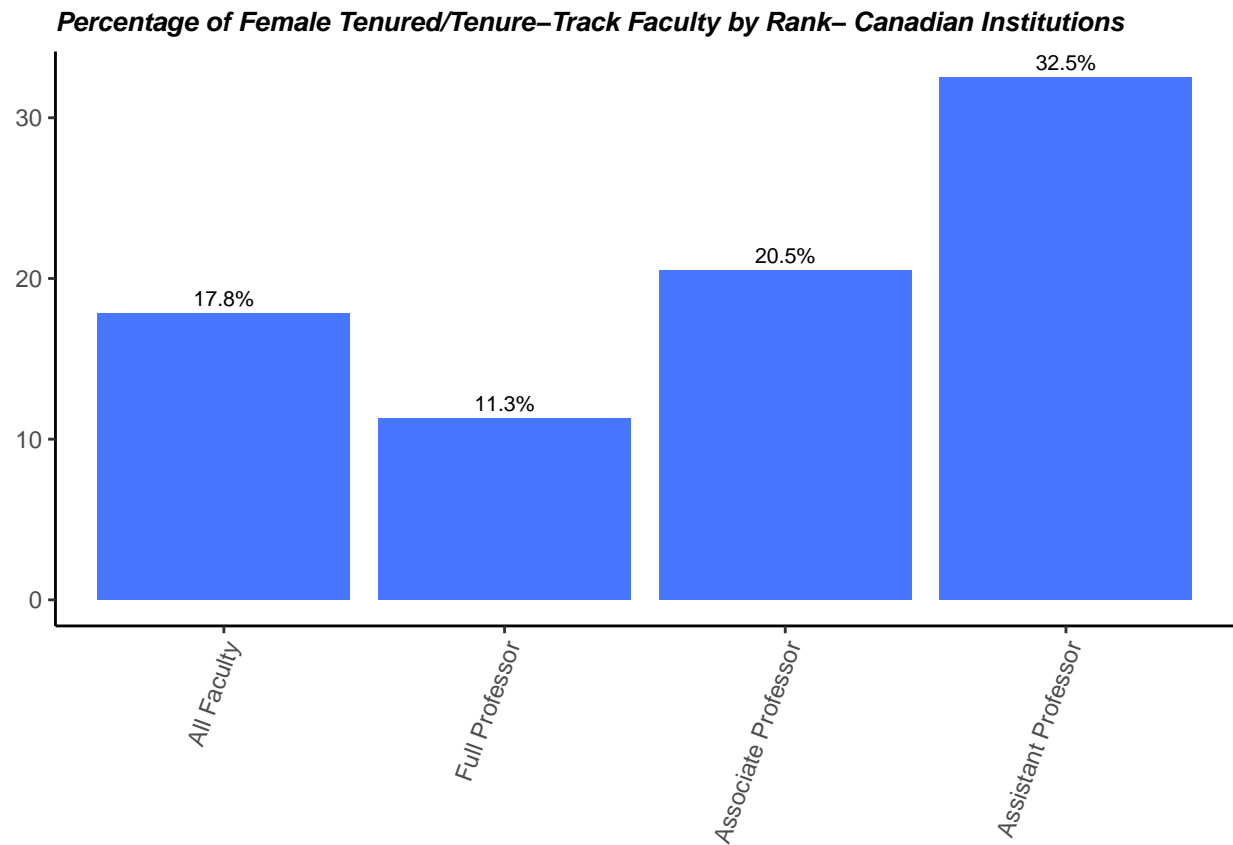
Table 107: Tenured/Tenure-Track Faculty Members by Institutions

No	Institutions	Degrees Awarded
1	University of Alberta	230.0
2	McMaster University	211.5
3	University of British Columbia	165.0

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	17.8%
Full Professor	11.3%
Associate Professor	20.5%
Assistant Professor	32.5%



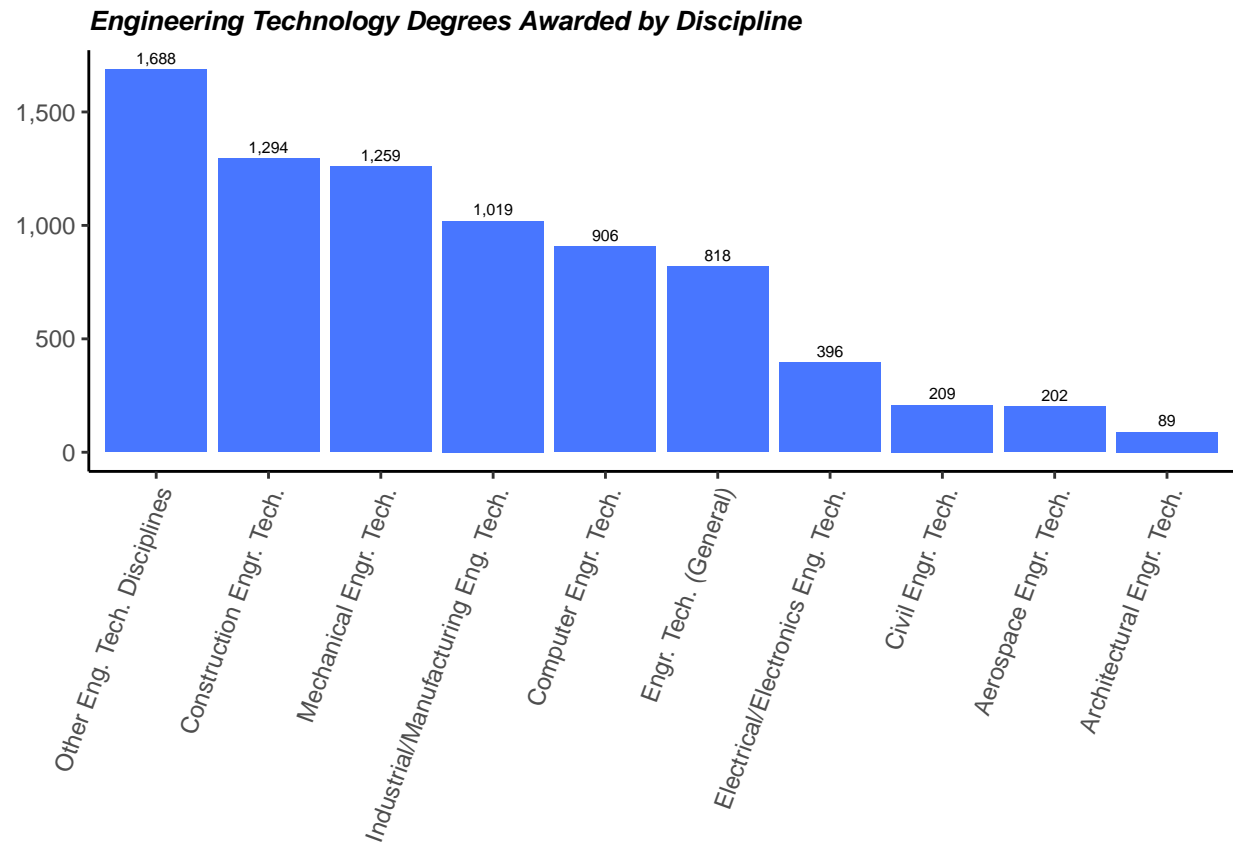
7 ENGINEERING TECHNOLOGY

7.1 ENGINEERING TECHNOLOGY DEGREES

7.1.1 Engineering Technology Degrees Awarded by Discipline

Table 109: Engineering Technology Degrees Awarded by Discipline : 7,880

Discipline Name	Degrees Awarded
Other Eng. Tech. Disciplines	1,688
Construction Engr. Tech.	1,294
Mechanical Engr. Tech.	1,259
Industrial/Manufacturing Eng. Tech.	1,019
Computer Engr. Tech.	906
Engr. Tech. (General)	818
Electrical/Electronics Eng. Tech.	396
Civil Engr. Tech.	209
Aerospace Engr. Tech.	202
Architectural Engr. Tech.	89



7.1.2 Engineering Technology Degrees Awarded to Underrepresented Minorities by Discipline

Table 110: Engineering Technology Degrees Awarded to Underrepresented Minorities by Engineering Discipline: 2,052

Discipline Name	Degrees Awarded
Construction Engr. Tech.	456
Other Eng. Tech. Disciplines	395
Computer Engr. Tech.	265
Mechanical Engr. Tech.	253
Industrial/Manufacturing Eng. Tech.	248
Engr. Tech. (General)	210
Electrical/Electronics Eng. Tech.	111
Civil Engr. Tech.	49
Aerospace Engr. Tech.	42
Architectural Engr. Tech.	23

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

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

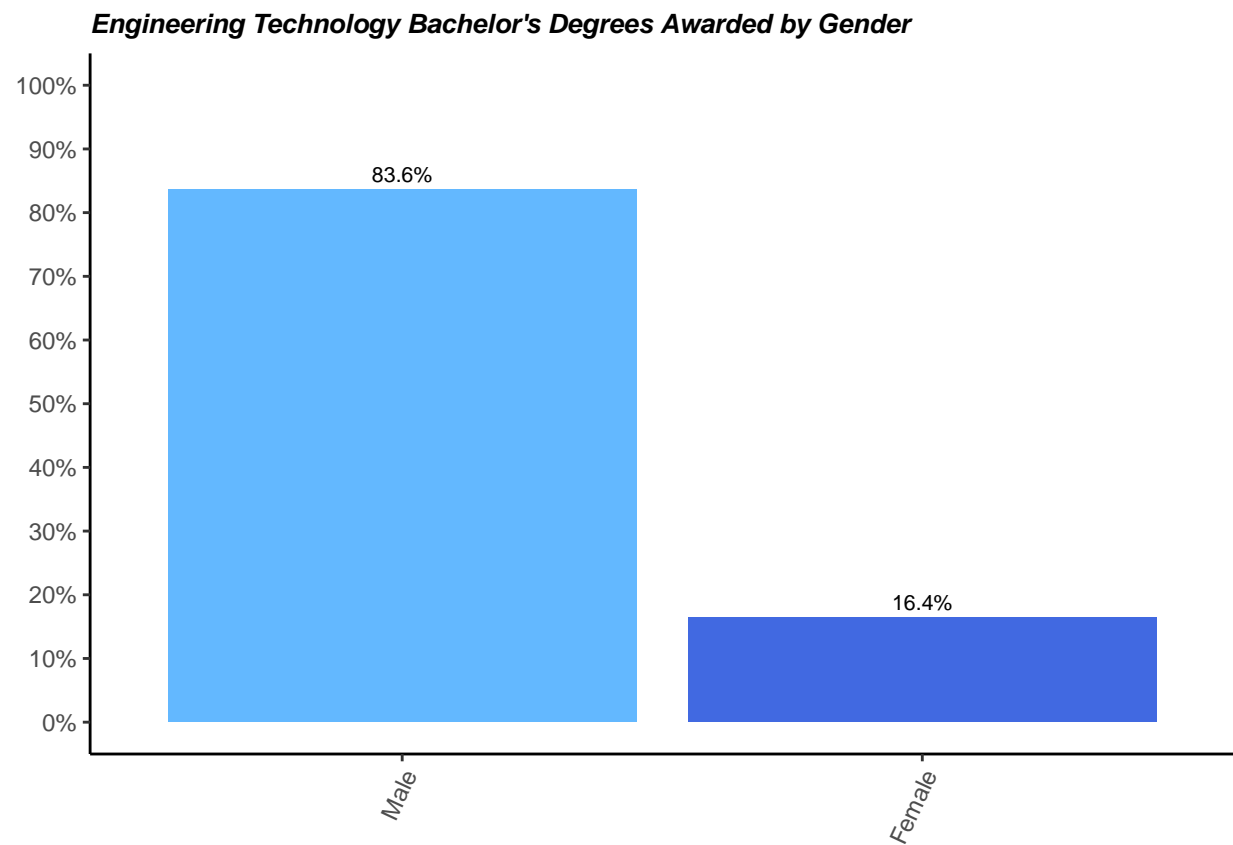
Table 111: Percentage of Engineering Technology Degrees Awarded to Underrepresented Minorities by Discipline 26 % of Total

Discipline Name	Percent Women
Construction Engr. Tech.	35.2%
Computer Engr. Tech.	29.2%
Electrical/Electronics Eng. Tech.	28%
Architectural Engr. Tech.	25.8%
Engr. Tech. (General)	25.7%
Industrial/Manufacturing Eng. Tech.	24.3%
Civil Engr. Tech.	23.4%
Other Eng. Tech. Disciplines	23.4%
Aerospace Engr. Tech.	20.8%
Mechanical Engr. Tech.	20.1%

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%

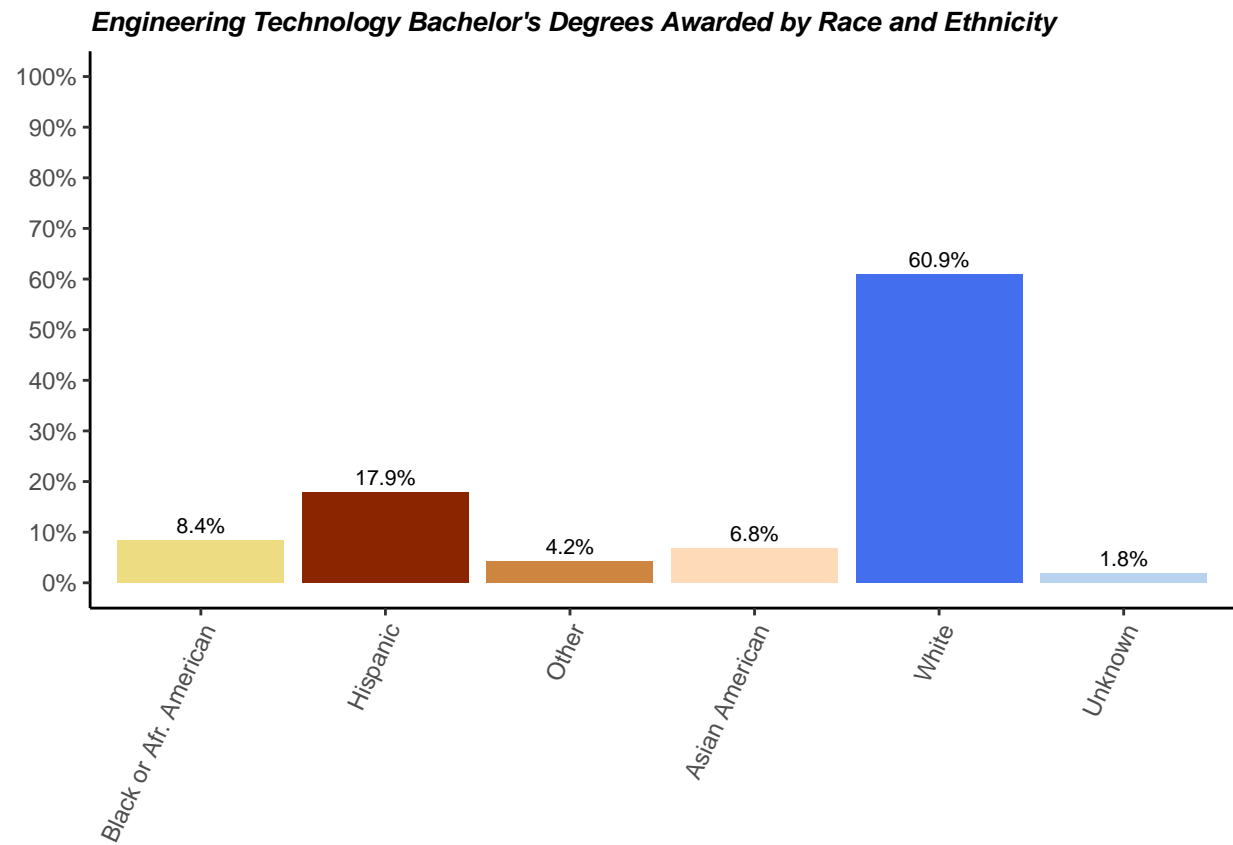


7.1.5 Engineering Technology Bachelor’s Degrees Awarded by Race and Ethnicity

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%

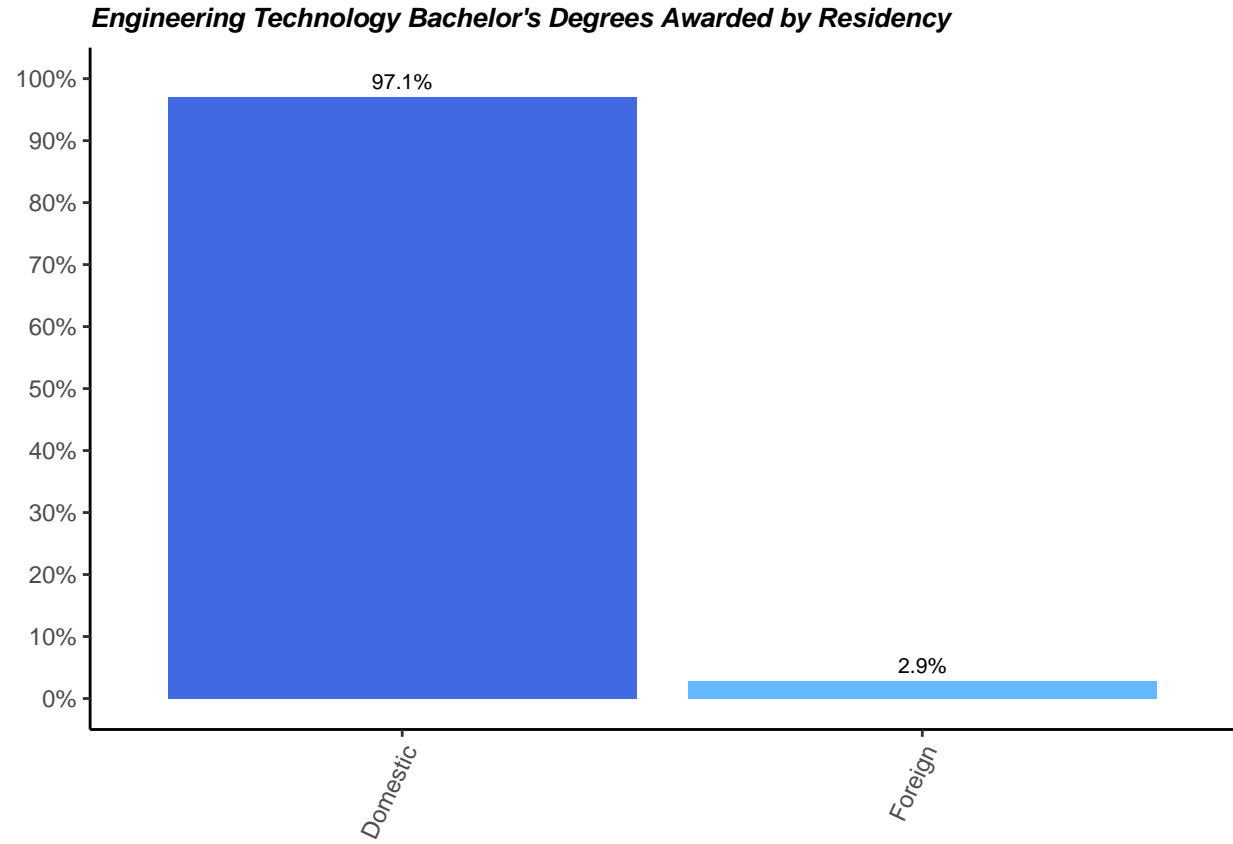
* American Indian/Alaska Native 0.4% Native Hawaiian/Other Pacific Islander 0.1% and Multiracial 3.7% are combined under other
* Data on ethnicity does not include foreign nationals.



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%



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	939
2	Texas A&M University	700
3	East Carolina University	517
4	University of Houston	282
5	Western Michigan University	228
6	Ferris State University	208
7	New Jersey Institute of Technology	169
8	Texas State University	167
9	University of North Carolina at Charlotte	161
10	Kennesaw State University	158
11	Rochester Institute of Technology	138
11	Wayne State University	138
13	University of Cincinnati	135
14	San Jose State University	128
15	Oklahoma State University	122
16	California State University-Chico	109
17	Tarleton State University	108
18	Georgia Southern University	106
19	Western Carolina University	105
20	University of Maine	103
21	Eastern Kentucky University	101
22	Pennsylvania College of Technology	88
23	California State University-Fresno	82
23	The Pennsylvania State University	82
25	Louisiana Tech University	81
26	Oregon Institute of Technology	79
27	University of Southern Mississippi	71
28	Middle Tennessee State University	70
29	Pittsburg State University	68
30	Southeastern Louisiana University	67
30	University of North Texas	67
32	University of Louisiana at Lafayette	64
33	Old Dominion University	60
34	Tennessee Technological University	59
35	Southern Illinois University Carbondale	58
35	Weber State University	58
37	Indiana State University	55
38	Purdue University Fort Wayne	54
39	Brigham Young University - Idaho	53
40	The University of Texas at Tyler	52
41	Lamar University	49
41	Temple University	49
43	Western New England University	48
44	University of Dayton	46
45	Central Connecticut State University	44
45	East Tennessee State University	44
47	Florida Gulf Coast University	43
47	New England Institute of Technology	43
47	Northern Illinois University	43
50	Cleveland State University	42

* 132 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	282
2	Texas A&M University	212
3	University of Houston	175
4	East Carolina University	115
5	Texas State University	74
6	New Jersey Institute of Technology	59
7	Kennesaw State University	56
8	California State University-Fresno	54
9	California State University-Chico	45
10	University of Puerto Rico-Arecibo	40
11	Tarleton State University	39
12	University of North Carolina at Charlotte	36
12	Western Michigan University	36
14	Savannah State University	33

Table 116: Top 50 Institutions by Engineering Technology Degrees awarded to Underrepresented Minorities (*continued*)

No	Institutions	Degrees Awarded
15	San Jose State University	31
15	University of North Texas	31
17	University of Puerto Rico-Bayamon	25
18	Lamar University	23
19	Georgia Southern University	21
20	Middle Tennessee State University	19
20	Northern Illinois University	19
20	The University of Texas at Tyler	19
23	Grambling State University	18
23	The University of Memphis	18
23	University of Southern Mississippi	18
26	Illinois State University	15
26	Norfolk State University	15
26	Rochester Institute of Technology	15
26	Temple University	15
30	Jackson State University	14
30	Metropolitan State University of Denver	14
30	Oklahoma State University	14
33	Cleveland State University	13
33	Old Dominion University	13
33	Southeastern Louisiana University	13
33	Wayne State University	13
33	Weber State University	13
33	Western Carolina University	13
39	California State University Maritime Academy	12
39	University of Hartford	12
41	Colorado Mesa University	11
41	Ferris State University	11
41	Florida Gulf Coast University	11
41	Louisiana Tech University	11
41	Tennessee Technological University	11
41	University of Louisiana at Lafayette	11
41	University of West Alabama	11
48	Central Connecticut State University	10
49	Eastern Kentucky University	9
49	New England Institute of Technology	9

* 132 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	Elizabeth City State University	100%
1	Tennessee State University	100%
1	The University of Texas Rio Grande Valley	100%
1	United States Military Academy	100%
1	University of Puerto Rico-Arecibo	100%
1	University of Puerto Rico-Bayamon	100%
7	Norfolk State University	93.8%
8	Jackson State University	93.3%
9	Savannah State University	86.8%
10	Grambling State University	85.7%
11	University of Maryland Eastern Shore	81.8%
12	Texas A & M University-Corpus Christi	71.4%
13	Alabama A & M University	66.7%
14	California State University-Fresno	65.9%
15	University of Houston	62.1%
16	Texas Southern University	61.5%
17	Fairleigh Dickinson University-Metropolitan Campus	53.8%
18	University of West Alabama	52.4%
19	Lamar University	46.9%
20	Northwestern State University of Louisiana	46.7%
21	University of North Texas	46.3%
22	The University of Memphis	46.2%
23	Vaughn College of Aeronautics and Technology	45.5%
24	Central Washington University	44.4%
25	Texas State University	44.3%
26	Northern Illinois University	44.2%
27	Metropolitan State University of Denver	43.8%
28	Benedict College	42.9%
28	Francis Marion University	42.9%
30	California State University-Chico	41.3%
31	University of Hartford	40%
32	Illinois State University	39.5%
33	New York Institute of Technology	38.1%
34	California State University Maritime Academy	37.5%
35	Austin Peay State University	36.8%

Table 117: Top 50 Institutions by Percentage of Engineering Technology Degrees awarded to Underrepresented Minorities (*continued*)

No	Institutions	Percent Underrepresented Minorities
36	The University of Texas at Tyler	36.5%
37	Tarleton State University	36.1%
38	Kennesaw State University	35.4%
39	Wright State University	35%
40	New Jersey Institute of Technology	34.9%
41	Benedictine College	33.3%
41	Midwestern State University	33.3%
41	Point Park University	33.3%
44	Cleveland State University	31%
45	Temple University	30.6%
46	Texas A&M University	30.3%
47	Arizona State University	30%
48	Missouri Southern State University	30%
49	Colorado Mesa University	27.5%
50	Middle Tennessee State University	27.1%

* 132 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	106
3	East Carolina University	62
3	Western Michigan University	62
5	Ferris State University	37
5	University of Houston	37
7	Kennesaw State University	31
8	University of Puerto Rico-Arecibo	24
9	New Jersey Institute of Technology	22
9	Rochester Institute of Technology	22
9	Wayne State University	22
12	Eastern Kentucky University	21
13	Texas State University	19
14	Oklahoma State University	18
14	University of Southern Mississippi	18
16	Lamar University	16
16	Middle Tennessee State University	16
16	San Jose State University	16
16	University of Hartford	16
20	University of Dayton	14
21	Western Carolina University	13
22	California State University-Chico	12
22	Old Dominion University	12
22	University of Cincinnati	12
25	Oregon Institute of Technology	11
25	Savannah State University	11
25	University of North Carolina at Charlotte	11
25	University of North Texas	11
29	The Pennsylvania State University	10
29	The University of Memphis	10
31	Louisiana Tech University	9
31	North Carolina State University at Raleigh	9
31	Pennsylvania College of Technology	9
31	Southeastern Louisiana University	9
35	East Tennessee State University	8
35	Georgia Southern University	8
35	Southeast Missouri State University	8
35	Tarleton State University	8
35	The University of Texas at Tyler	8
35	University of Maine	8
35	Western New England University	8
42	California State University-Fresno	7
42	Indiana State University	7
42	Norfolk State University	7
42	Southwestern Oklahoma State University	7
42	University of Louisiana at Lafayette	7
42	Weber State University	7
48	Brigham Young University - Idaho	6
48	Central Connecticut State University	6
48	Cleveland State University	6

* 132 Institutions included

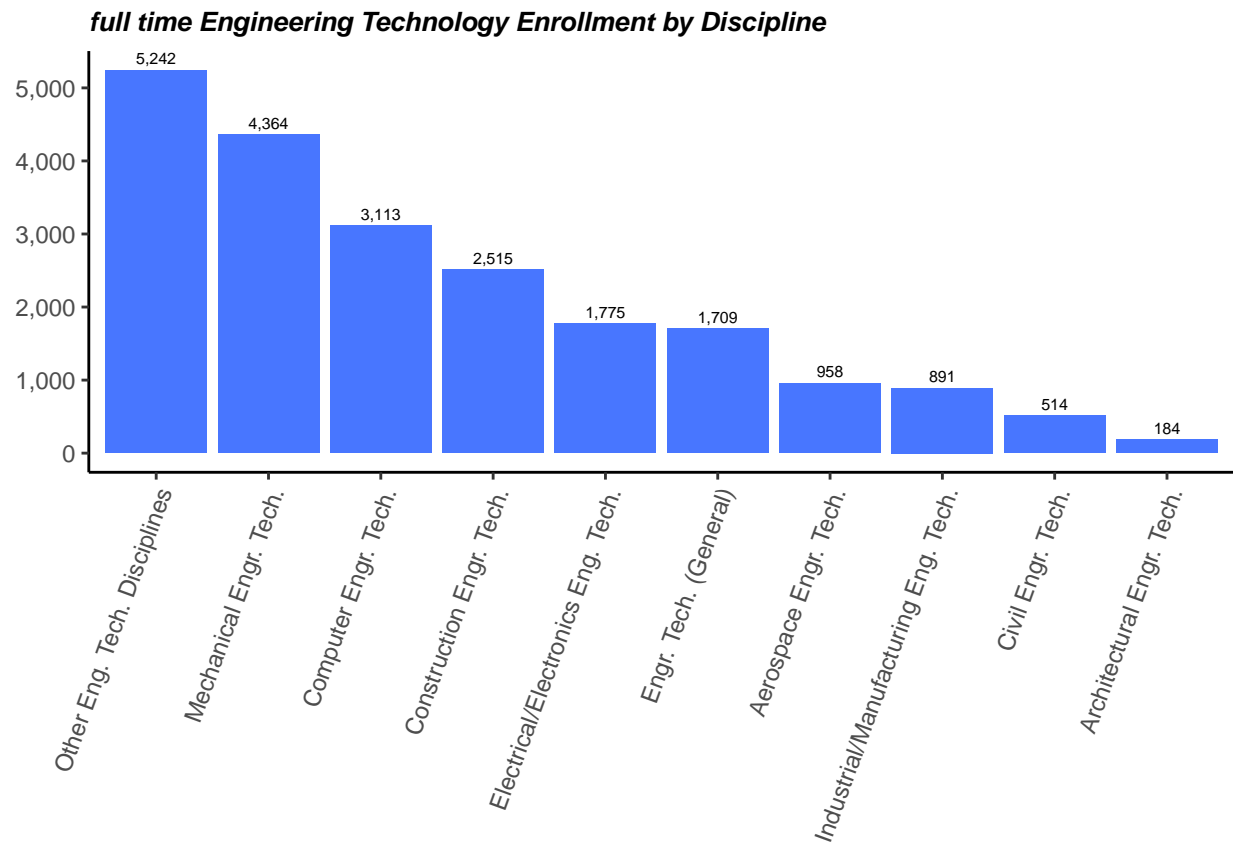
7.2 ENGINEERING TECHNOLOGY ENROLLMENT, FALL 2021

7.2.1 Full time Engineering Technology Enrollment by Discipline

Table 119: Full time Engineering Technology Enrollment by Discipline: 21,265

Discipline Name	Degrees Awarded
Other Eng. Tech. Disciplines	5,242
Mechanical Engr. Tech.	4,364
Computer Engr. Tech.	3,113
Construction Engr. Tech.	2,515
Electrical/Electronics Eng. Tech.	1,775
Engr. Tech. (General)	1,709
Aerospace Engr. Tech.	958
Industrial/Manufacturing Eng. Tech.	891
Civil Engr. Tech.	514
Architectural Engr. Tech.	184

* 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	5,720
2	Texas A&M University	2,622
3	East Carolina University	2,603
4	Rochester Institute of Technology	1,074
5	New Jersey Institute of Technology	917
6	Eastern Michigan University	820
7	Kennesaw State University	746
8	University of Cincinnati	719
9	The University of Toledo	649
10	University of North Carolina at Charlotte	642
11	Oklahoma State University	634
12	Purdue University Polytechnic Institute	616
13	Farmingdale State College (SUNY)	614
14	Purdue University Northwest, Engineering	601
15	San Jose State University	592
16	University of Maine	581
17	Brigham Young University - Idaho	528
18	Oregon Institute of Technology	513
19	Western Carolina University	490
20	New Mexico State University	482
21	Ohio University	390
22	Montana State University	386
23	University of North Texas	376
24	Wayne State University	369

Table 120: Top 50 Institutions by Engineering Technology Enrollment *(continued)*

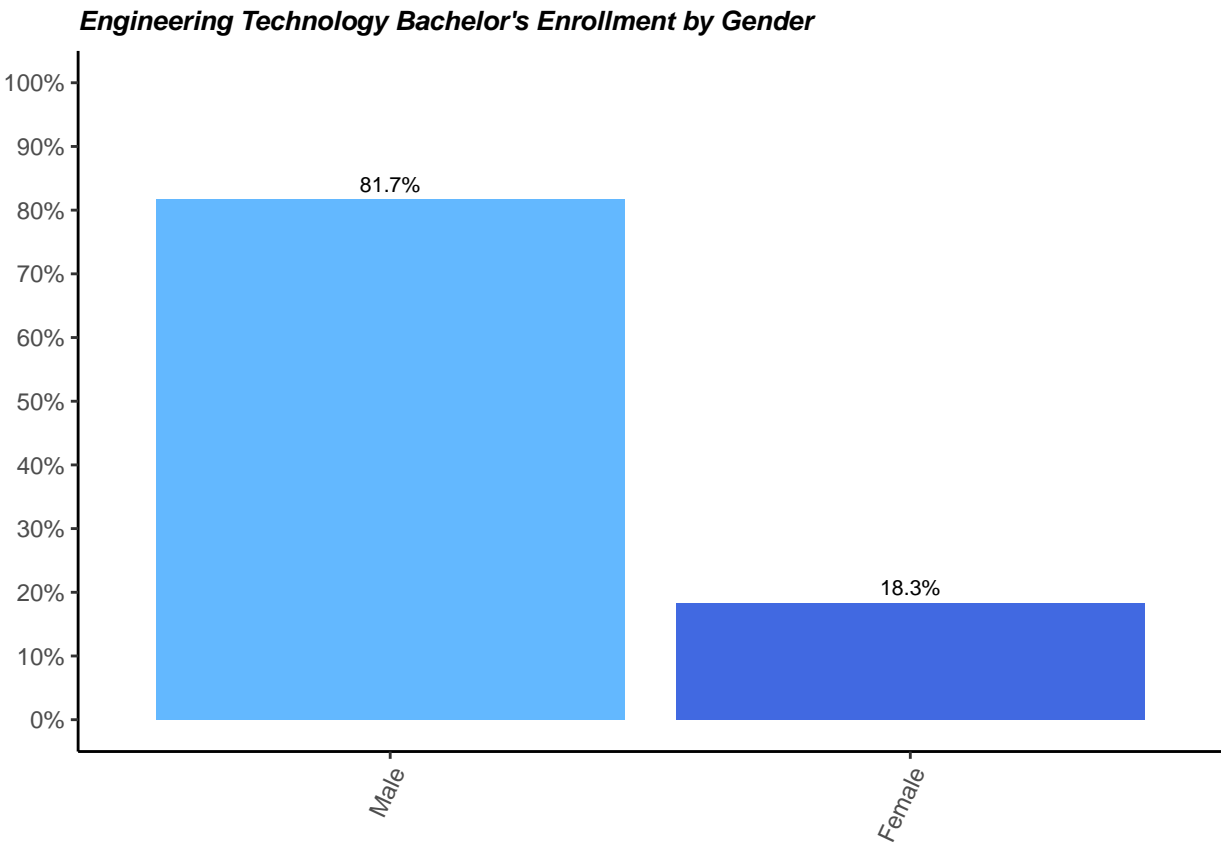
No	Institutions	Enrollments
25	Louisiana Tech University	311
26	SUNY Polytechnic Institute	271
27	The Pennsylvania State University	270
28	Old Dominion University	264
29	South Dakota State University	258
30	Tennessee Technological University	234
31	Penn State Erie, The Behrend College	224
32	Southern Illinois University Carbondale	216
33	University of Louisiana at Lafayette	183
34	Temple University	180
35	Wright State University	177
36	University of Dayton	176
37	Indiana University-Purdue University Indianapolis	169
38	The Ohio State University	157
39	California State University Maritime Academy	153
40	The University of Memphis	134
41	Cleveland State University	131
42	Drexel University	129
43	Bradley University	126
44	Western Michigan University	101
45	Central Michigan University	95
46	West Virginia University	80
47	University of Arkansas at Little Rock	69
48	University of Massachusetts Lowell	50
49	University of Kentucky	30
50	Virginia State University	24

* 132 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%

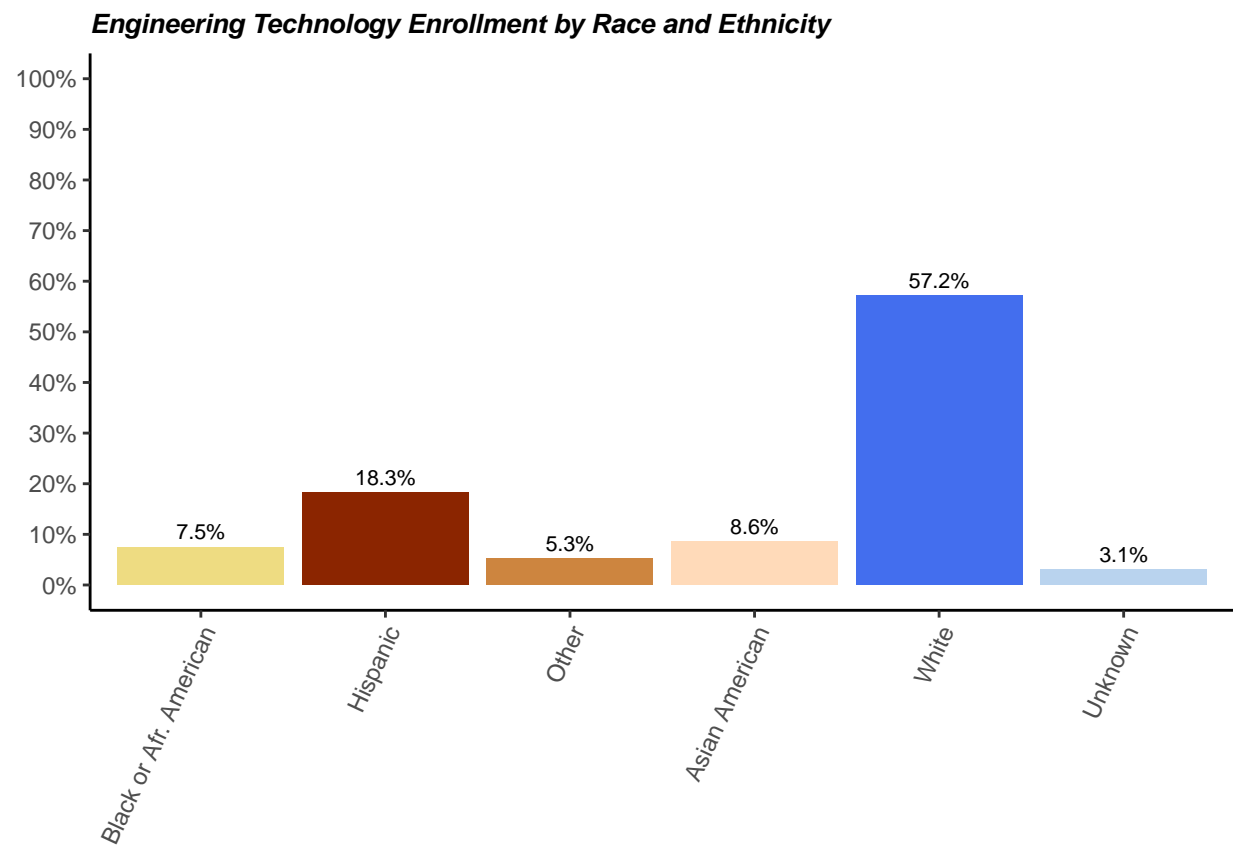


7.2.4 Engineering Technology Enrollment by Race and Ethnicity

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 0.7% Native Hawaiian/Other Pacific Islander 0.5%
* 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
* 52 Institutions reported.

