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Profiles of Engineering and Engineering Technology, 2020

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COVID-19 and Engineering Education¹

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.

This report is an initial analysis of the data collected for Profiles 2020 as ASEE's Department of Institutional Research & Analytics prepares a longer version of this report on the effects of COVID-19 on engineering education in the United States to be released separately before the end of 2021.

Executive Summary

- While there is a large amount of institution-specific variability, the number of domestic applications to undergraduate engineering programs for Fall 2021 have remained steady. There has been a decrease in applications for master's and doctoral engineering programs.
- Engineering schools at Hispanic-Serving Institutions (HSIs) and Asian American, Native American, Pacific Islander-Serving Institutions (AANAPISIs) admitted a higher rate of applicants in Fall 2020.
- Whether or not applications translate into enrollments is a difficult question to answer for Fall 2021. Several institutions have reported an expected large increase in Fall 2021 enrollments due to deferrals from Fall 2020 and Spring 2021. Several institutions are reporting they are preparing for "mega-classes," especially for firstyear students.
- Nationally, representation of women and underrepresented minorities² shows no decline in undergraduate engineering programs, including for the Fall 2020 freshman class.
- Freshman enrollment showed a median decline for all engineering disciplines in Fall 2020.

¹ This work is part of an ongoing project on the effects of COVID-19 on engineering education funded by NSF-EEC Award #1748840. Any views expressed are those of the individual author and do not necessarily represent the views of the National Science Foundation.

² ASEE uses the definition of underrepresented minority (URM) for the engineering fields from NSF's *Science and Engineering Indicators* report (https://ncses.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."

- Total research volume showed a slight increase in FY 2020 with disciplines requiring in-person lab work the most likely to have a moderate decrease.
- Only half of engineering technology disciplines showed a median decrease in enrollments for all undergraduates and for freshmen.

Applications, Offers, and Enrollments in Engineering, Fall 2020 and Fall 2021

For each college of engineering, ASEE collects data on the total numbers of applications, offers, and enrolled students for Fall in each survey year. From each college, we can calculate two numbers: one of accessibility (out of the total number of applications, what percent are admitted), and the other of melt (of those offered admissions, what percent enroll and attend for the Fall). The data below are from participating institutions 2016–2020 who report all three data points for each year. Some institutions do not report this data across all years, and they are excluded from this analysis. The graphs presented in this section visualize the spread of the data. The grey dots represent institutional values for accessibility. The thick red line in the middle represents the median for each measure (in Figure 1, this is the accessibility for institutions that are not minority-serving, see appendix for definition and sample characteristics).

Figures 1-3 shows the distribution of accessibility by MSI type for those types with more than 10 institutions in the sample who reported data for every year in the Profiles survey for 2016-2020. MSI types include Hispanic-Serving Institutions (HSIs) and Asian American, Native American, Pacific Islander-Serving Institutions (AANAPISIs) as well as non-minority serving institution (non-MSIs).

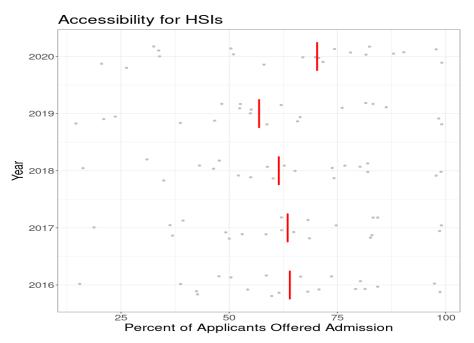
Accessibility for Non-MSIs

Figure 1: Percent of Applicants Admitted for Engineering Programs 2016-2020, non-MSIs

For non-Minority-Serving Institutions, in Figure 1 there was no visible change in accessibility for Fall 2020 and a small decrease in the percent who attended in Fall 2020. The small decrease, however, was in line with the trend in the data from Fall 2016 to Fall 2019.

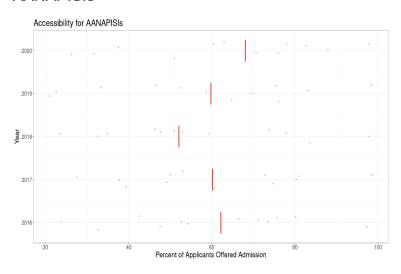
50
Percent of Applicants Offered Admission

Figure 2: Percent of Applicants Admitted for Engineering Programs 2016-2020, HSIs



For both MSIs and AANAPISIs, as seen in Figures 2 and 3, there is a median increase in accessibility for Fall 2020 in contrast to the median trend for Fall 2016–2019. The institutional variability, however, remains stable for Fall 2020. The enrollment melt remained stable for Fall 2020 (as can be seen by graphs in the appendix); some institutions, however, have reported that fewer students had chosen to enroll due to the inability of an institution to provide financial aid in the amount they had in past years.

Figure 3: Percent of Applicants Admitted for Engineering Programs 2016-2020, AANAPISIs



<u>Fall 2021 Survey (May 2021)</u>: A survey was sent to institutions in early May 2021 requesting numbers for domestic and international student applications for Fall 2021 and, similarly, for Fall 2020 as a baseline. Since the Profiles data collection does not

differentiate between domestic and international applicants, this ad-hoc survey allowed for some investigation of the effect of the pandemic on international application, especially since there were reports of fall off of international student interest due to the prior administration's change in policy regarding student visas in July 2020 and the general difficulty over the pandemic of travelers' entry into other countries due to local restrictions.

Thirty-six institutions participated in the survey, with 14 private and 22 public institutions responding. The data below represent the median, minimum, and maximum change in applications reported by institution type. Institutions were asked to report the data as of April 30 for both 2020 and 2021 to have comparable results regardless of application deadline.

Table 1: Change in Applications from Fall 2020 to Fall 2021 for Engineering Programs

| Level | Туре | Percent Domestic | nt Change stic Applicants | | Percent Cha Applicants | ange in l | nternational |
|------------|---------|---------------------|------------------------------|------|---------------------------|-----------|--------------|
| | | Median | Min | Max | Median | Min | Max |
| Bachelor's | Public | -1.4 | -30.3 | 61.3 | -6.0 | -27.0 | 103.4 |
| Bachelor's | Private | 2.2 | -9.9 | 16.9 | 14.7 | -85.0 | 61.9 |
| Master's | Public | 1.5 | -32.8 | 50.0 | 2.1 | -78.2 | 208.2 |
| Master's | Private | -9.1 | -32.8 | 17.8 | -38.1 | -85.7 | 50.3 |
| Doctoral | Public | -6.1 | -60.0 | 52.9 | 11.4 | -15.0 | 80.0 |
| Doctoral | Private | -3.7 | -44.4 | 94.4 | 200 | -30.7 | 946.1 |

Table 2 illustrates that the fluctuation in accessibility is not an artifact of an increase or decrease in the number of applications nationally. Engineering schools had a median percent change of around +/- 1.0 in the number of applications from 2019.

Table 2: Median Year-to-Year Percent Change in Number of Applications

| Institution Type | 2017 | 2018 | 2019 | 2020 |
|---------------------|------|------|------|------|
| Non-MSIs | 1.8 | 5.0 | 0.0 | -0.9 |
| HSIs | 6.3 | 8.1 | -2.0 | 1.1 |
| AANAPISIs | 1.5 | 12.0 | -1.7 | 0.4 |

<u>Institutional Context</u>: Discussions with several institutions as well other external stakeholders have pointed to a marked increase in applications when shifting graduate programs to become test-optional (either SAT/ACT at the undergraduate level or GRE at the graduate level). The large maximum percent change in international students for some institutions reflects both the shift to test-optional as well as the loosening of restrictions for the pandemic (specifically, in some locations, for required in-person interviews). At the graduate level, however, there is a decrease for domestic applicants for graduate programs. While several doctoral programs in the humanities and social

sciences have suspended admissions for Fall 2021³, no engineering program has stated that they are suspending admissions or lowering the number of students admitted due to the pandemic. This may be due to the potentially strong job market in engineering and technical occupations as the U.S. economy emerges from the widespread shutdowns in March 2020. Finally, some institutions reported that beyond the overall variability in application numbers, they witnessed a shift in the pool of applicants for Fall 2021 to more local rather than geographically dispersed populations.

Fall 2020 Enrollment by Engineering Discipline

Institutions report data to ASEE by class (including freshman, sophomore, junior, and senior), gender, race/ethnicity, engineering discipline, program name, and department name. For this section of the report, we examine the change from 2019 to 2020 for undergraduate enrollment and doctoral enrollment.

<u>Percent Change:</u> This measure represents the percent difference between 2019 versus 2020 totals. For example, when looking at institutional total enrollment, if there were 50 students enrolled in 2019 and 55 students enrolled in 2020, that would represent a +5 percent change in enrollment (55-50)/50 x 100.

<u>Change in Percent</u>: This measure represents the change in percent of each group between 2019 and 2020. For example, if women represent 10 percent of total undergraduate enrollment in 2019 and 15 percent of total undergraduate enrollment in 2020, the change in percent would be 5 (15 percent-10 percent) and represents a normalized measure across years. This measure more closely reflects year-to-year change when the focus is on increasing representation.

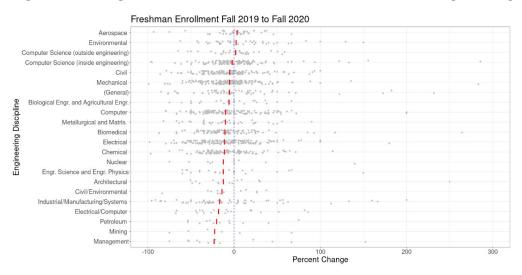
Each figure represents the percent change in enrollment by engineering discipline, with the grey dots representing each institution in the sample and the red lines the calculated medians for each discipline. The blue dashed line represents no difference between 2019 and 2020.

Freshman Enrollment

Total undergraduate enrollment represents one dimension of potential worry for the future engineering workforce, but an important subset of that is the change in the first-year enrollment for 2020. Throughout the past year, many stakeholders have reported that first-year undergraduate students deferred enrollment. Nationally, this effect can be seen in the decrease in median percent change of freshman enrollment for all disciplines shown in Figure 4. The exceptions to this were programs in computer science, environmental engineering, and aerospace engineering.

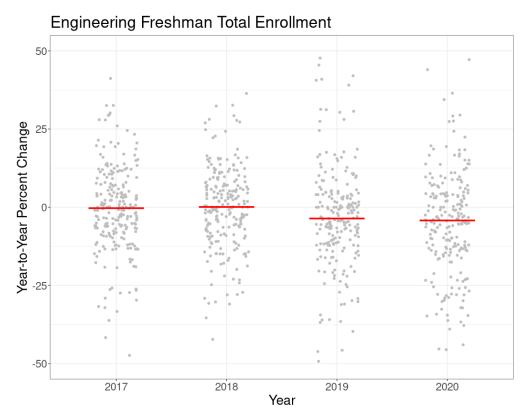
³ A recent *Chronicle* story tracks those programs: <a href="https://www.chronicle.com/article/more-doctoral-programs-suspend-admissions-that-could-have-lasting-effects-on-graduate-education?cid2=gen_login_refresh&cid=gen_sign_in_effects-on-graduate-education?cid2=gen_login_refresh&cid=gen_sign_in_effects-on-graduate-education?cid2=gen_login_refresh&cid=gen_sign_in_effects-on-graduate-education?cid2=gen_login_refresh&cid=gen_sign_in_effects-on-graduate-education?cid2=gen_login_refresh&cid=gen_sign_in_effects-on-graduate-education?cid2=gen_login_refresh&cid=gen_sign_in_effects-on-graduate-education?cid2=gen_login_refresh&cid=gen_sign_in_effects-on-graduate-education?cid2=gen_login_refresh&cid=gen_sign_in_effects-on-graduate-education?cid2=gen_login_refresh&cid=gen_sign_in_effects-on-graduate-education?cid2=gen_login_refresh&cid=gen_sign_in_effects-on-graduate-education?cid2=gen_login_refresh&cid=gen_sign_in_effects-on-graduate-education?cid2=gen_login_refresh&cid=gen_sign_in_effects-on-graduate-education.

Figure 4: Change in Freshmen Enrollment for Fall 2020 for Engineering Disciplines



To contextualize the decreases seen in the freshman cohort for Fall 2020, some analysis of recent year trends is necessary: in other words, is there already an on-going trend of enrollment decline or was Fall 2020 an aberration. Figure 5 illustrates the year-to-year change for the freshman cohort from 2017 to 2020. Some institutions have first-year engineering programs that they do not report in the Profiles survey (i.e. programs where students are admitted to the college of engineering, but are undeclared and select a engineering major after the first or later year). Only institutions that report at least one freshman enrolled the college of engineering in each year from 2016 to 2020 were included. There were 234 institutions that met that inclusion criteria for Figure 5 and Table 3.

Figure 5: Engineering Freshman Percent Change in Enrollment 2016-2020



All institutions report a median percent decrease in freshmen engineering enrollment in Fall 2020 of -4.1, but also reported a median percent decrease in Fall 2019 (prepandemic) of -3.6. Overall engineering enrollment has increased since 2005 as reported in Engineering by the Numbers from ASEE in 2005-2019, but the data from 2016 to 2020 suggest the potential start of a decline which be accelerated by the pandemic.

Table 3: Year-to-Year Percent Change in Total Freshmen Engineering Enrollment by Type of Institution

| Туре | 2017 | 2018 | 2019 | 2020 |
|--|------|-------|-------|------|
| Asian American, Native American, Pacific Islander Serving Institution (AANAPISI) | -0.8 | 0.9 | -6.7 | -3.2 |
| Historical Black College or University (HBCU) | -3.4 | 5.4 | 0.0 | -0.8 |
| Hispanic Serving Institution (HSI) | 0.52 | -0.51 | -12.2 | -4.1 |
| Minority Serving Engineering Improvement Program (MSEIP) | -4.8 | 4.2 | -15.6 | -9.4 |
| Non-Minority Serving Institution (non-MSI) | -0.9 | 0.9 | -3.6 | -4.1 |
| All Institutions | -0.3 | 0.3 | -3.6 | -4.1 |

The discipline level trends of the last few years as appearing in Table 4, indicates there is variability within engineering disciplines for these trends. Institutions report both the specific name of a program to the ASEE, e.g. Cybersecurity & Networks (B.S.) and report the engineering discipline (for this example, Computer Science (inside engineering)). Computer science housed inside a college of engineering is classified as "inside engineering" and computer science programs outside the college of engineering are classified as "outside engineering". There are two joint disciplines: Civil/Environmental Engineering (CEE) and Electrical/Computer Engineering (ECE). There is some variability in whether a program is reported by an institution as Electrical Engineering, Computer Engineering or Computer/Electrical Engineering by the same institution year-to-year even when there are no programmatic changes. For the purposes of this analysis, all ECE and CEE programs are reported in one joint discipline to track year-to-year changes. A program is only included for Table 4 for an institution if at least one freshmen enrollment is reported each year from 2016 to 2020. The number of institutions meeting that criteria is in the far-right column. Aerospace Engineering, except for a small median percent decrease in 2017, is the only engineering discipline to show an increase from 2018 to 2020. All other disciplines within engineering, have shown some decline in freshmen enrollment, especially in Fall 2020.

Table 4: Year-to-Year Median Percent Change in Freshmen Enrollment by Engineering Discipline.

| Discipline | 2017 | 2018 | 2019 | 2020 | # Institutions |
|---|------|-------|-------|-------|----------------|
| Aerospace Eng. | -1.5 | 1.4 | 8.5 | 5.0 | 37 |
| Architectural Eng. | 6.5 | -4.4 | 4.1 | -18.2 | 12 |
| Biological Engr. And Agricultural Engr. | -8.5 | 12.3 | -11.8 | -6.3 | 21 |
| Biomedical Eng. | 4.3 | -4.5 | -1.6 | -10.2 | 86 |
| Chemical Eng. | 5.6 | -5.3 | -1.0 | -10.4 | 96 |
| Civil or Environmental Eng. | 0.0 | 0.0 | -3.0 | -3.6 | 167 |
| Computer Science (inside engineering) | -7.7 | 6.9 | 2.0 | -2.2 | 115 |
| Computer Science (outside engineering) | -5.0 | 7.3 | 7.0 | 6.4 | 29 |
| Electrical or Computer Eng. | 0.0 | 0.0 | -5.6 | -9.8 | 269 |
| Eng. (General) | 8.3 | -4.7 | -7.4 | 0.0 | 39 |
| Eng. Management | 8.6 | -9.2 | 0.0 | 0.2 | 8 |
| Engr. Science and Engr. Physics | 0.0 | 0.0 | 25.0 | -16.7 | 19 |
| Industrial/Manufacturing/Systems Eng. | 0.0 | 0.0 | -5.2 | -14.3 | 63 |
| Mechanical Eng. | 1.3 | -1.2 | -1.3 | -5.0 | 174 |
| Metallurgical and Matrls. Eng. | -8.7 | 7.7 | -3.9 | -8.8 | 32 |
| Mining Eng. | 56.3 | -23.4 | -8.3 | -3.8 | 4 |
| Nuclear Eng. | 13.9 | -13.6 | 33.3 | -25.0 | 9 |
| Petroleum Eng. | -3.3 | 6.0 | -3.6 | -11.2 | 10 |

Total Undergraduate Enrollment

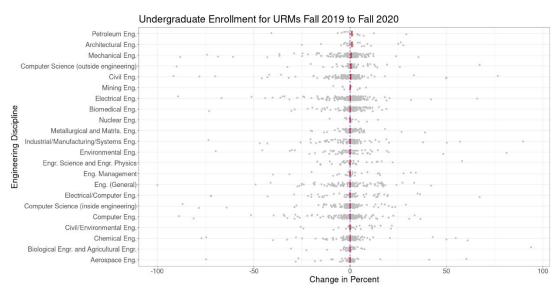
Figure 6 represents the change in Fall 2020 enrollment for all undergraduates. Over half of all engineering disciplines showed a median percent decrease in undergraduate program enrollment, with petroleum engineering, metallurgical and materials engineering, and civil/environmental engineering showing the largest decrease from Fall 2019 to Fall 2020.

Total Undergraduate Enrollment Fall 2019 to Fall 2020 Environmental Eng. Architectural Eng. Computer Science (inside engineering)-Computer Science (outside engineering)-Eng. Management-Engr. Science and Engr. Physicsand the state of t Computer Eng. Civil Eng. Electrical/Computer Eng. Biomedical Eng. Physical Display Comp. Electrical Eng. The second second second second Mechanical Eng. Biological Engr. and Agricultural Engr. Industrial/Manufacturing/Systems Eng.-Eng. (General)-The second second second second Chemical Eng. Mining Eng. 1 - 34 - 3- 3 Civil/Environmental Eng. Metallurgical and Matrls. Eng. Petroleum Eng. 300 Percent Change

Figure 6: Change in Undergraduate Enrollment in Fall 2020 by Discipline

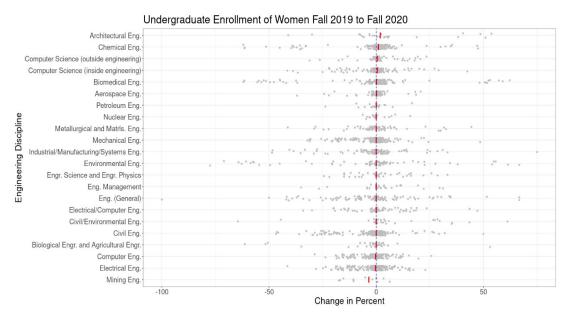
In examining underrepresented minority enrollment by engineering discipline in undergraduate programs, a noticeable difference appears, in that most engineering programs report near zero median change in percent. This indicates that in the disciplines with an overall decrease in enrollment, representation of URMs in that cohort remained stable nationally, even with large institutional swings as seen in the distribution of the institutional level responses (seen in the grey dots).

Figure 7: Change in Undergraduate Enrollment for URMs in Fall 2020 by Discipline



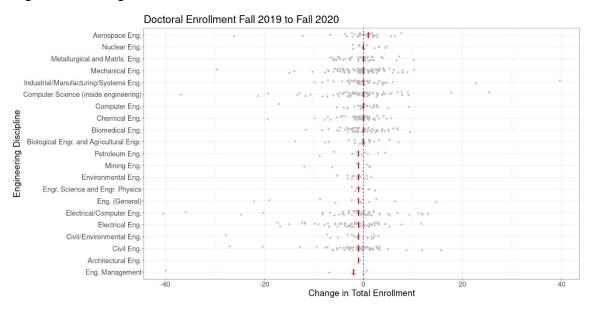
In Figure 8, the percent change in enrollment by women from Fall 2019 to Fall 2020 is displayed. Nearly all engineering disciplines show no or a small positive median change in percent enrollment with one discipline, mining engineering, displaying a median decrease for change in percent.

Figure 8: Change in Undergraduate Enrollment for Women in Fall 2020



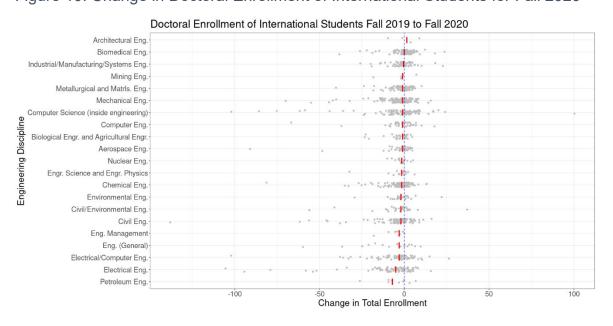
Doctoral Enrollment

Figure 9: Change in Doctoral Enrollment for Fall 2020



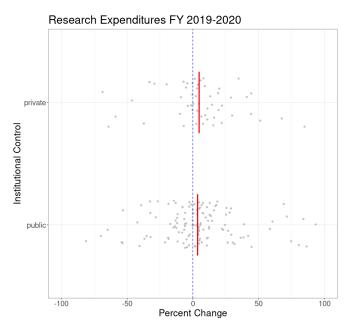
Due to the small cohort size for many doctoral programs, we chose to focus on change in total enrollment rather than a percent-based measure (which is subject to large volatility when dealing with n < 20). Doctoral enrollment for Fall 2020, in Figure 8, stayed relatively stable with small decreases in the median enrollment for over half of engineering disciplines. Surprisingly, total international enrollment for Fall 2020 follows the same pattern.

Figure 10: Change in Doctoral Enrollment of International Students for Fall 2020



Research Volume

Figure 11: Percent Change in Total Research Expenditures by Institutional Control



The Profiles data collections gathered research volume as measured by expenditures on research by external sources (gifts, federal, state, local, and corporate) during the 2020 fiscal year (FY). For over 95 percent of reporting institutions, FY 2020 is July 1, 2019 to June 30, 2020, representing the initial four months of the pandemic. Institutions that do not align to the FY 2020 dates of July 1, 2019 to June 30, 2020 are excluded from the results reported below. There was a slight median increase in the percent change for total institutional research expenditures in FY 2020. As seen in Figure 10 there was a slight for public and private institutions in the total research expenditures for FY 2020 from FY 2019. This slight increase aligns with responses from institutions that they were able to keep research output continuing during the first few months of the pandemic by focusing on writing up results for labs that could not be open in the pandemic.

A disciplinary breakdown of percent change for research expenditures is displayed in Figure 11. The largest median increases and decreases are artifacts of the low numbers of institutions that report research expenditures within those disciplines⁴. There is a moderate median increase in percent change for research expenditures for electrical engineering, computer science, chemical engineering, aerospace engineering, and biomedical engineering. There were widespread reports of institutions producing personal protective equipment (PPE) using resources available to them in the final months of FY 2020⁵. This redeployment (for non-research purposes) along with in-person research

⁴ Architectural engineering: two institutions reported expenditures in FY 2020 & FY2019; environmental engineering: five institutions; and engineering management: six institutions.

⁵ https://www.cnbc.com/2020/05/05/how-colleges-and-universities-are-producing-ppe-for-health-care-workers.html

being shut down or minimized during the initial months of the pandemic could account for the median decrease in percent change for industrial/manufacturing/systems engineering.

Research Expenditures by Discipline FY 2019-2020 Architectural Eng. Environmental Eng. Electrical Eng. Chemical Eng. Aerospace Eng. and the state of the state of The state of the state of the Engr. Science and Engr. Physics-Computer Science (outside engineering)and the contract of the contract of Electrical/Computer Eng. Mechanical Eng. Metallurgical and Matrls. Eng.-The second state of the second Computer Eng. Biological Engr. and Agricultural Engr. Eng. (General)-Civil Eng. The state of the s Civil/Environmental Eng. Nuclear Eng. Mining Eng. Petroleum Eng. . . . Industrial/Manufacturing/Systems Eng. March of the Spice Eng. Management-200 Percent Change

Figure 12: Change in Research Expenditures by Discipline

Engineering Technology Enrollment

In Figure 13, the change in undergraduate enrollment for each engineering technology discipline is displayed. Figure 14 displays the change in total enrollment for freshman from Fall 2019 to Fall 2020. Both total undergraduate enrollment and freshmen enrollment for Fall 2020 show similar trends: there were a median decrease in programs for half of engineering technology disciplines. Three disciplines, however, had only 1 or 2 programs represented in the Profiles data set: civil engineering technology, aerospace engineering technology and architectural engineering technology.

Figure 13: Change in Engineering Technology Undergraduate Enrollment

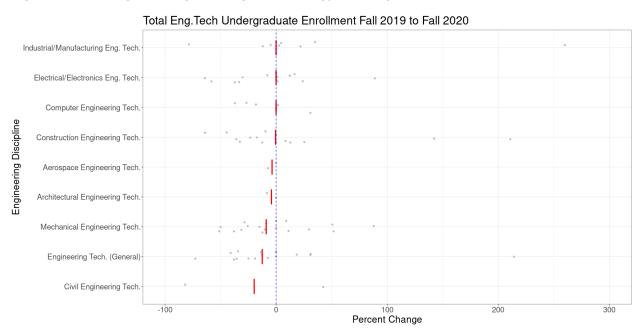
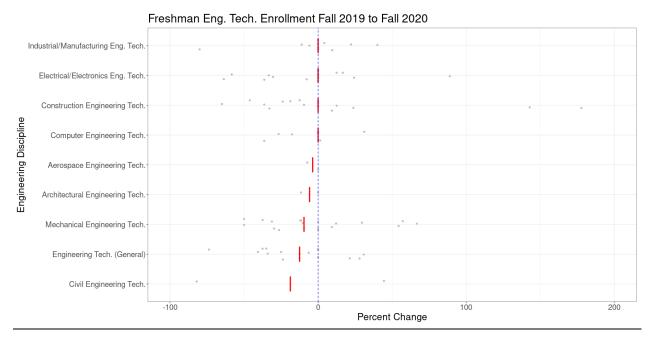


Figure 14: Change in Freshman Enrollment for Engineering Technology Programs



Joseph Roy, Ph.D. is the Director of ASEE's Department of Institutional Research and Analytics and is the author of this report. He can be reached at <u>j.roy@asee.org</u> for questions.

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The following ASEE staff made contributions: Jacqueline El-Sayed, Managing Director of Professional Services/Chief Academic Officer, served as project director; Joseph Roy, Director of Institutional Research & Analytics, authored the report; Charles Stuppard, Data Analyst II, produced the accessibility and melt charts and provided technical help to institutions submitting data. Angela Erdiaw-Kwasie, Sr. Data Analyst, produced the data and ranking tables in the Profiles publication. Timothy King, Data Collections Support Specialist, provided technical and administrative assistance to institutions submitting data. Eva Miller, ASEE Editorial Director, served as editor for an initial draft of this report and Tim King edited a revision.

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Any views expressed are those of the individual author and do not necessarily represent the views of the National Science Foundation or the views of members on the ASEE Data Collections National Advisory Board.

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 NSF's *Science and Engineering Indicators* report (https://ncses.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 2020):

Fall 2020: institution enrollments, engineering college enrollments, engineering technology college enrollments, faculty head counts, admission requirements and recommendations, and personnel information. Degrees awarded between July 1, 2019 and June 30, 2020. Research expenditures are based on the most recently completed fiscal year ending in 2020.

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

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

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

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

If an institution chooses the binary gender option spreadsheet, it is reporting data to ASEE as it would be reported to the IPEDS survey. Gender for individuals (student or faculty) that is unknown would be reported in a category (male or female) selected by the

institution. Under this option, institutions are instructed to include counts for **all individuals** in the required cells.

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

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

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

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

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

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

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

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

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

Admissions & Enrollment Data 2016–2020

Table 5: Institutions by Minority Serving Institution Type in ASEE Sample for Applications and Freshman Enrollment Data.

| Institution Type | ASEE Applications Sample 2016–2020 | ASEE Enrollment Sample 2016- 2020 | Total EAC ABET Institutions (2020) |
|---|---|--|--|
| Historical Black College or University (HBCU) | 2 | 2 | 15 |
| Hispanic Serving Institution (HSI) | 20 | 23 | 36 |
| Asian American, Native American, Pacific Islander Serving Institution (AANAPISI) | 13 | 15 | 23 |
| Minority Science and Engineering Improvement Program (MSEIP) | 9 | 10 | 22 |
| Native American Serving, Non-Tribal Institution (NASNTI) | 0 | 0 | 1 |
| Non-Minority Serving Institution (Non-MSI) | 127 | 194 | 302 |

Table 7 represents sample characteristics for applications, offers and enrollments data displayed for 2016-2020. The column for total ABET institutions for 2020 are those that have at least one accredited program from ABET in an Engineering Accreditation Commission (EAC) area that awarded at least 1 engineering degree in 2020 according to IPEDS data. MSI status is based on 2020 data from the Office of Postsecondary Education (OPE) at the U.S. Department of Education. The eligibility matrix for 2020 was used (https://www2.ed.gov/about/offices/list/ope/idues/2020eligibilitymatrix.xlsx). Historically Black Colleges and Universities (HBCUs) and Tribal Colleges and Universities (TCUs) are designated by statute. The other MSI programs are based on eligibility criteria. Institutions were categorized as MSIs if they either currently had a grant under that program or were eligible to apply for funding under a program without a waiver.

Profiles Data Collection and Reporting in 2020–21

The annual deadline for the Profiles survey submission has been January 31 since 2017, and in past years ASEE received 20 to 30 requests for extensions. This year, however, the ASEE received over 140 requests for extensions and worked with institutions to accept data after the deadline. The data reported in the *Profiles of Engineering & Engineering Technology* publication reflect institutional submissions to ASEE as of August 22, 2021.

Degrees awarded represent the data reported by the following 282 participating institutions:

Abilene Christian University
Air Force Institute of Technology

Alfred University, NY State College of Ceramics

Arizona State University Arkansas Tech University Auburn University Baylor University Boise State University Boston University Bradley University

Brigham Young University

Brigham Young University - Idaho

Brown University
Bucknell University

California Baptist University
California Institute of Technology

California Polytechnic State University, San Luis

Obispo

California State Polytechnic University, Pomona California State University Maritime Academy

California State University, Fullerton

California State University, Long Beach

California State University, Los Angeles California State University, Northridge California State University, Sacramento

Campbell University

Carnegie Mellon University
Case Western Reserve University

Cedarville University
Central Michigan University
Central State University

City College of the City University of New York

Clarkson University Clemson University

Cleveland State University Colorado School of Mines 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, Prescott Embry Riddle Aeronautical University, Daytona

Beach

FAMU-FSU College of Engineering Farmingdale State College (SUNY)

Florida Atlantic University Florida Institute of Technology Florida International University

George Fox University
George Mason University
Georgia Institute of Technology

Gonzaga University

Grand Valley State University

Harvard University Harvey Mudd College Hofstra University

Illinois Institute of Technology

Indiana University-Purdue University Indianapolis

Iowa State University
James Madison University
John Brown University
Kansas State University
Kennesaw State University

Kettering University Lafayette College

Lawrence Technological University

Lehigh University

Liberty University

Louisiana State University Louisiana Tech University Loyola Marymount University Loyola University Chicago

Manhattan College Marquette University

Massachusetts Institute of Technology

McMaster University Miami University

Michigan State University

Michigan Technological University Milwaukee School of Engineering

Mississippi State University

Missouri University of Science and Technology

Montana State University Morgan State University

New Jersey Institute of Technology
New Mexico State University
New York Institute of Technology
North Carolina A&T State University
North Carolina State University
North Dakota State University
Northeastern University

Northern Illinois University Northwestern University

NYU Tandon School of Engineering

Oakland University
Ohio Northern University

Ohio University

Oklahoma State University
Old Dominion University
Olin College of Engineering
Oregon Institute of Technology

Oregon State University

Penn State Erie, The Behrend College

Portland State University Princeton University Purdue University

Purdue University Northwest, College of

Engineering

Purdue University Northwest, College of

Technology

Rensselaer Polytechnic Institute Rochester Institute of Technology 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

South Dakota State University

Southern Illinois University Carbondale Southern Illinois University Edwardsville

Southern Methodist University

St. Mary's University
Stanford University

Stevens Institute of Technology

Stony Brook University
SUNY Polytechnic Institute
Swarthmore College
Sweet Briar College
Syracuse University
Temple University

Tennessee Technological University

Texas A&M University

Texas A&M University - Kingsville

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 Alabama

The University of Alabama in Huntsville

The University of Iowa
The University of Memphis
The University of Mississippi
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 Texas Permian Basin

The University of Toledo The University of Tulsa The University of Western Ontario

Tufts University
Tulane University

U.S. Coast Guard Academy

Union College

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 Alberta 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 Colorado Springs

University of Colorado Denver University of Connecticut University of Dayton University of Delaware University of Detroit Mercy University of Evansville University of Florida University of Georgia

University of Hawaii at Manoa

University of Houston

University of Hartford

University of Houston, College of Technology

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, Dartmouth University of Massachusetts, Lowell

University of Miami 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 New Haven

University of North Carolina at Chapel Hill 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 Portland

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 St Thomas

University of Tennessee, Chattanooga University of Tennessee, Knoxville University of the District of Columbia

University of the Pacific University of Toronto University of Utah University of Vermont University of Virginia

University of Washington in Seattle University of Washington-Tacoma

University of Waterloo

University of Wisconsin - Stout University of Wisconsin, Milwaukee University of Wisconsin, Platteville University of Wisconsin-Madison

University of Wisconsin-Milwaukee Flex University of Wyoming Utah State University Valparaiso University Vanderbilt University

Villanova University

Virginia Commonwealth University

Virginia Polytechnic Institute and State University

Virginia State University
Walla Walla University
Washington State University

Washington University in St. Louis

Wayne State University

Wentworth Institute of Technology

West Virginia University
Western Carolina University
Western Michigan University
Western New England University

Wichita State University
Widener University

William Marsh Rice University Winona State University Worcester Polytechnic Institute

Wright State University

Yale School of Engineering & Applied Science

Institutions that did not participate but reported at least one degree awarded in 2019-20 to the Integrated Postsecondary Education Data System (IPEDS) were reported using data for the same period reported to the federal government. Included in this were institutions that had at least one ABET accredited program at their institution. All engineering, engineering technology and computer science degrees awarded were integrated into this data. Computer Science degrees awarded at non-participating institutions were uniformly categorized as "Computer Science (outside engineering)". The following institutions did not participate in the 2020 data collection for Profiles and their data were imported from IPEDS for 2020 degrees awarded:

Alabama A & M University Alfred University (private) Anderson University

Andrews University
Angelo State University
Arkansas State University

Asbury University
Baker College
Bates College
Benedictine College

Benjamin Franklin Institute of Technology

Bethune-Cookman University

Bob Jones University
Bradley University

California Baptist University

California State University Maritime Academy California State University-Bakersfield

California State University-Chico

California State University-East Bay California State University-Fresno

California State University-San Bernardino

Calvin University

Capitol Technology University

Carroll College
Cedarville University

Central Connecticut State University

Christian Brothers University
Christopher Newport University

Clarkson University

Coe College

Colorado State University Pueblo

Cornell College
Dordt University

Eastern Illinois University
Eastern Kentucky University
Eastern Washington University

Elizabethtown College Mount Vernon Nazarene University

Fairfield University

Fairleigh Dickinson University-Metropolitan Campus

Murray State University

Muskingum University

Ferris State University Navajo Technical University

Florida Gulf Coast University New Mexico Institute of Mining and Technology

Florida Polytechnic University

Fort Lewis College

Francis Marion University

Frostburg State University

Northern Illinois University

Northwest Nazarene University

Gannon University Norwich University

Geneva College Oklahoma Christian University
Georgia Southern University Olivet Nazarene University
Hampton University Oral Roberts University

Harding University Pace University

Henderson State University Point Park University

Hood CollegePrairie View A & M UniversityHope CollegePurdue University Fort WayneHoward UniversityPurdue University Northwest

Humboldt State University
Idaho State University
Regis University

Indiana Institute of Technology Rider University

Jackson State University Robert Morris University
Lake Superior State University Roger Williams University

Lamar University Saginaw Valley State University

LeTourneau University

Lewis University

Lipscomb University

Loras College

Saint Francis University

Saint Louis University

Saint Martin's University

Samford University

Loyola University Maryland San Francisco State University
Maine Maritime Academy Seattle Pacific University

Marietta College South Carolina State University

Marshall University

South Dakota School of Mines and Technology

Massachusetts Maritime Academy

Southeast Missouri State University

Massachusetts Maritime Academy Southeast Missouri State University

McNeese State University Southern New Hampshire University

Mercer University Southern Utah University

Merrimack College State University of New York at New Paltz

Messiah University Stephen F Austin State University

Middle Tennessee State University Tarleton State University

Midwestern State University Taylor University

Minnesota State University-Mankato Tennessee State University

Mississippi College Texas A & M International University

Monmouth University Texas A&M University-Texarkana

Montana Technological University Texas Christian University

Texas State University

The University of Tennessee-Martin

The University of Texas Rio Grande Valley

The University of Virginia's College at Wise

The University of West Florida

Thomas Jefferson University

Trine University
Trinity College
Trinity University
Tuskegee University

Union University

United States Merchant Marine Academy

University of Alaska Anchorage

University of Bridgeport University of Denver University of Evansville

University of Houston-Clear Lake University of Maryland Eastern Shore University of Massachusetts-Boston

University of Michigan-Flint University of Minnesota-Duluth University of Mount Union University of New Orleans University of North Alabama

University of North Carolina at Asheville University of North Carolina at Chapel Hill University of North Dakota University of North Florida

University of Pittsburgh-Johnstown

University of Scranton

University of South Carolina Aiken

University of South Dakota University of Southern Indiana University of Southern Maine University of Southern Mississippi

University of St Thomas

University of Wisconsin-Eau Claire
University of Wisconsin-Platteville
University of Wisconsin-Stevens Point

Utah Valley University

Vaughn College of Aeronautics and Technology

Virginia Military Institute

Webb Institute

Weber State University
West Texas A & M University

West Virginia University Institute of Technology

Western Illinois University
Western Kentucky University
Western Washington University

Wilkes 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.

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| 5 | 4.2. EN 5.1 5.2 5.3 CA 6.1 6.2 6.3 6.4 6.5 6.6 6.7 6.8 EN 7.1 | 11 Percentage of Hispanic Tenured/Tenure-Track Faculty by Discipline 12 Percentage of Asian Tenured/Tenure-Track Faculty by Discipline 13 Percentage of Asian Tenured/Tenure-Track Faculty by Discipline 14 Percentage of Asian Tenured/Tenure-Track Faculty by Discipline 15 Computer Science Expenditure By Institutions of Dollars 16 Computer Science Research Expenditures Located Outside of Engineering By Institutions 17 Computer Science Research Expenditures Located Outside of Engineering By Institutions 18 Engineering Bachelors Degree by Canadian Institutions 18 Engineering Masters Degree by Canadian Institutions 18 Engineering Masters Degree by Canadian Institutions 19 Engineering Doctoral Degree by Canadian Institutions 19 Engineering Doctoral Degree by Canadian Institutions 19 Engineering Doctoral Degree Awarded by Gender- Canadian Institutions 19 Doctoral Degrees Awarded by Gender- Canadian Institutions 19 Doctoral Degrees Awarded by Gender- Canadian Institutions 19 Percentage of Female Tenured/Tenure-Track Faculty by Rank- Canadian Institutions 10 Doctoral Degrees Awarded by Gender- Canadian Institutions 10 Percentage of Female Tenured/Tenure-Track Faculty by Rank- Canadian Institutions 10 Percentage of Female Tenured/Tenure-Track Faculty by Rank- Canadian Institutions 11 Engineering Technology Degrees Awarded by Discipline 12 Engineering Technology Degrees Awarded by Discipline 13 Percentage of Engineering Technology Degrees Awarded by Gender 14 Engineering Technology Bachelors Degrees Awarded by Race and Ethnicity 15 Engineering Technology Bachelors Degrees Awarded by Residency 16 Engineering Technology Bachelors Degrees Awarded by Residency 17 Top 50 Institutions Awarding Highest Number of ET Degrees 17 Top 50 Institutions by Engineering Technology Degrees awarded to Underrepresented Minorities 18 Top 50 Institutions Awarding Engineering Technology Degrees awarded to Underrepresented Minorities 18 Top 50 Institutions Degree Awarding Engineering Technology Degrees awarded to Underrepresented Minorities 19 Top | | | 656 67768 6996997011 7227733344755767788878 |
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1 ENGINEERING BACHELORS

1.1 ENGINEERING Bachelors DEGREES

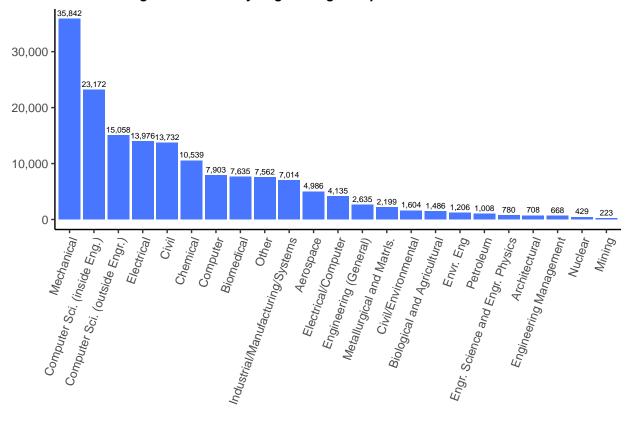
1.1.1 Total Bachelors Degrees Awarded by Engineering Discipline

Table 1: Bachelors Degrees by Discipline: 149,442*

| Discipline Name | Degrees Awarded |
|---|--|
| Mechanical Computer Sci. (inside Eng.) | 35,842 23,172 |
| Computer Sci. (outside Engr.) Electrical Civil | 15,058 13,976 13,732 |
| Chemical Computer Biomedical Other Industrial/Manufacturing/Systems | 10,539 7,903 7,635 7,562 7,014 |
| Aerospace Electrical/Computer Engineering (General) Metallurgical and Matrls. Civil/Environmental | 4,986 4,135 2,635 2,199 1,604 |
| Biological and Agricultural Envr. Eng Petroleum Engr. Science and Engr. Physics Architectural | 1,486 1,206 1,008 780 708 |
| Engineering Management Nuclear Mining | 668 429 223 |

Total does not include computer science (outside engineering).

Bachelors Degrees Awarded by Engineering Discipline



1.1.2 Total Bachelors Degrees Awarded to Underrepresented Minorities by Engineering Discipline

Table 2: Bachelors Degrees Awarded to Underrepresented Minorities by Engineering Discipline: 23,902

| Discipline Name | Degrees Awarded |
|---|---|
| Mechanical Computer Sci. (inside Eng.) Civil | 5,663 3,370 2,810 |
| Electrical Computer Sci. (outside Engr.) | 2,657 1,929 |
| Chemical Computer Other Biomedical Industrial/Manufacturing/Systems | 1,494 1,350 1,177 1,155 1,144 |
| Aerospace Electrical/Computer Engineering (General) Metallurgical and Matrls. Civil/Environmental | 767 493 356 263 246 |
| Petroleum Envr. Eng Biological and Agricultural Architectural Engineering Management | 181 180 163 126 108 |
| Engr. Science and Engr. Physics Nuclear Mining | 106 64 29 |

1.1.3 Percentage of Bachelors Degrees Awarded to Underrepresented Minorities by Discipline

Table 3: Percentage of Bachelors Degrees Awarded to Underrepresented Minorities by Discipline 15.5 % of Total

| Discipline Name | Degrees Awarded |
|----------------------------------|-----------------|
| Civil | 20.5% |
| Electrical | 19% |
| Petroleum | 18% |
| Architectural | 17.8% |
| Computer | 17.1% |
| Industrial/Manufacturing/Systems | 16.3% |
| Engineering Management | 16.2% |
| Mechanical | 15.8% |
| Other | 15.6% |
| Aerospace | 15.4% |
| Civil/Environmental | 15.3% |
| Biomedical | 15.1% |
| Envr. Eng | 14.9% |
| Nuclear | 14.9% |
| Computer Sci. (inside Eng.) | 14.5% |
| Chemical | 14.2% |
| Engr. Science and Engr. Physics | 13.6% |
| Engineering (General) | 13.5% |
| Mining | 13% |
| Computer Sci. (outside Engr.) | 12.8% |
| Metallurgical and Matrls. | 12% |
| Electrical/Computer | 11.9% |
| Biological and Agricultural | 11% |

1.1.4 Percentage of Bachelors Degrees Awarded to Women by Discipline

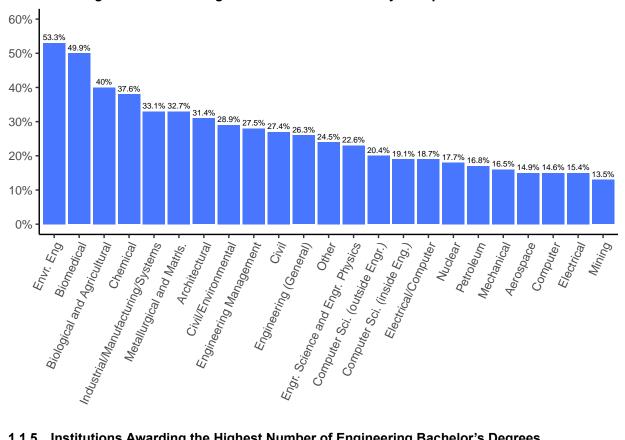
Table 4: Percentage of Bachelors Degrees Awarded to Women by Discipline 23 % of Total

| Discipline Name | Percent Women |
|----------------------------------|---------------|
| Envr. Eng | 53.3% |
| Biomedical | 49.9% |
| Biological and Agricultural | 40% |
| Chemical | 37.6% |
| Industrial/Manufacturing/Systems | 33.1% |
| Metallurgical and Matrls. | 32.7% |
| Architectural | 31.4% |
| Civil/Environmental | 28.9% |
| Engineering Management | 27.5% |
| Civil | 27.4% |
| Engineering (General) | 26.3% |

Table 4: Percentage of Bachelors Degrees Awarded to Women by Discipline 23 % of Total (continued)

| Discipline Name | Percent Women |
|---------------------------------|---------------|
| Other | 24.5% |
| Engr. Science and Engr. Physics | 22.6% |
| Computer Sci. (outside Engr.) | 20.4% |
| Computer Sci. (inside Eng.) | 19.1% |
| Electrical/Computer | 18.7% |
| Nuclear | 17.7% |
| Petroleum | 16.8% |
| Mechanical | 16.5% |
| Electrical | 15.4% |
| Aerospace | 14.9% |
| Computer | 14.6% |
| Mining | 13.5% |

Percentage of Bachelors Degrees Awarded to Women by Discipline



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

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

| 1 2 | Occasion to the form of Talabarahama | |
|-----|--|-------|
| 2 | Georgia Institute of Technology | 2,982 |
| | Purdue University | 2,458 |
| 3 | Arizona State University | 2,298 |
| 4 | Texas A&M University | 2,294 |
| 5 | University of Illinois at Urbana-Champaign | 2,247 |
| 6 | University of Michigan | 2,172 |
| 7 | University of California, Irvine | 2,025 |
| 8 | The Pennsylvania State University | 2,017 |
| 9 | The Ohio State University | 1,933 |
| 10 | Iowa State University | 1,850 |
| 11 | The University of Texas at Austin | 1,844 |
| 12 | Virginia Polytechnic Institute and State University | 1,827 |
| 13 | University of Maryland, College Park | 1,738 |
| 14 | University of California, Berkeley | 1,726 |
| 15 | University of Central Florida | 1,688 |
| 16 | Oregon State University | 1,672 |
| 17 | University of Wisconsin-Madison | 1,642 |
| 18 | University of Florida | 1,634 |
| 19 | North Carolina State University | 1,600 |
| 20 | Rutgers, The State University of New Jersey, School of Engineering | 1,560 |
| 21 | California Polytechnic State University, San Luis Obispo | 1,458 |
| 22 | University of California, San Diego | 1,401 |
| 23 | University of Washington in Seattle | 1,378 |
| 24 | University of Colorado Boulder | 1,313 |
| 25 | Stony Brook University | 1,248 |
| 26 | Florida International University | 1,238 |
| 27 | Michigan State University | 1,195 |
| 28 | Missouri University of Science and Technology | 1,179 |
| 29 | The University of Texas at Dallas | 1,161 |
| 30 | Rensselaer Polytechnic Institute | 1,160 |
| 31 | University of Minnesota -Twin Cities | 1,147 |
| 32 | Northeastern University | 1,115 |

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

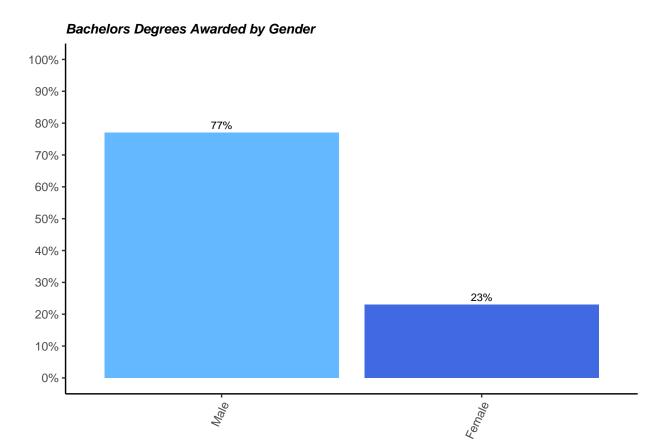
| No | Institutions | Degrees Awarded |
|----|---|-----------------|
| 33 | New Jersey Institute of Technology | 1,110 |
| 34 | University at Buffalo, SUNY | 1,104 |
| 35 | Clemson University | 1,092 |
| 36 | Auburn University | 1,085 |
| 37 | The University of Alabama | 1,081 |
| 38 | George Mason University | 1,074 |
| 39 | California State University, Long Beach | 1,041 |
| 40 | Colorado School of Mines | 1,020 |
| 40 | Louisiana State University | 1,020 |
| 42 | University of California-Santa Cruz | 1,016 |
| 43 | California State Polytechnic University, Pomona | 1,002 |
| 44 | Texas Tech University | 997 |
| 45 | San Jose State University | 984 |
| 46 | University of South Florida | 979 |
| 47 | University of California, Los Angeles | 953 |
| 48 | University of Virginia | 924 |
| 49 | Rochester Institute of Technology | 912 |
| 50 | University of Pittsburgh | 887 |

^{* 429} Institutions included

1.1.6 Bachelors Degrees Awarded by Gender

Table 6: Bachelors Degrees Awarded by Gender

| Gender | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Female | 17.80% | 18.10% | 18.40% | 18.90% | 19.10% | 19.90% | 20.90% | 21.30% | 21.90% | 22.40% | 23.10% |
| Male | 82.20% | 81.90% | 81.60% | 81.10% | 80.90% | 80.10% | 79.10% | 78.70% | 78.10% | 77.60% | 76.90% |



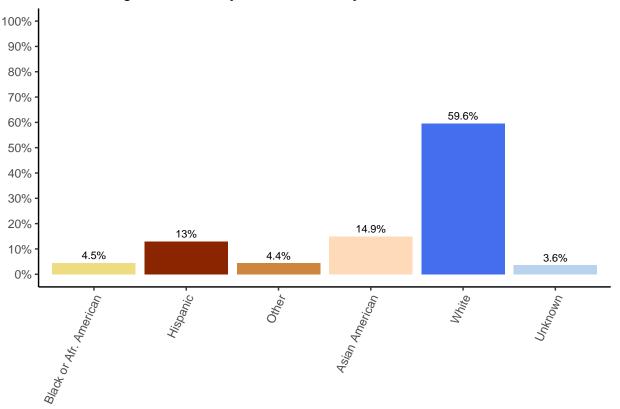
1.1.7 Bachelors Degrees Awarded by Race and Ethnicity

Table 7: Bachelors Degrees Awarded by Ethnicity

| Ethnicity | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 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% |
| Hispanic | 7.0% | 8.5% | 9.0% | 9.3% | 10.1% | 10.7% | 10.7% | 11.1% | 11.4% | 12.1% | 13.1% |
| Other | 1.2% | 1.6% | 2.0% | 2.3% | 2.9% | 3.1% | 3.6% | 3.8% | 3.5% | 4.3% | 4.4% |
| Asian American | 12.2% | 12.2% | 12.2% | 12.9% | 13.1% | 13.4% | 14.2% | 14.6% | 14.7% | 14.7% | 14.9% |
| White | 69.8% | 66.6% | 66.2% | 65.7% | 65.9% | 64.9% | 63.4% | 62.3% | 61.5% | 60.8% | 59.4% |
| Unknown | 5.3% | 6.9% | 6.5% | 5.6% | 4.5% | 3.9% | 4.2% | 4.1% | 4.2% | 3.8% | 3.7% |

^{*}Data on ethnicity does not include foreign nationals. American Indian/Alaska Native (0.3%), Native Hawaiian/Other Pacfic Islander(0.2%) and Multiracial (3.9%) are combined under Other.

Bachelors Degrees Awarded by Race and Ethnicity

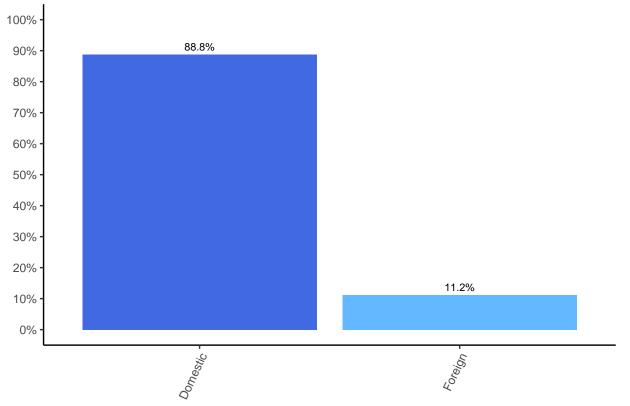


1.1.8 Bachelors Degrees Awarded by Residency

Table 8: Bachelors Degrees Awarded by Residency

| Nationality | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Foreign | 6.2% | 6.2% | 6.7% | 7.5% | 7.8% | 8.5% | 9.1% | 9.6% | 10.1% | 11.2% | 11.1% |
| Domestic | 94.0% | 93.8% | 93.3% | 92.5% | 92.2% | 91.5% | 90.9% | 90.4% | 89.9% | 88.8% | 88.9% |





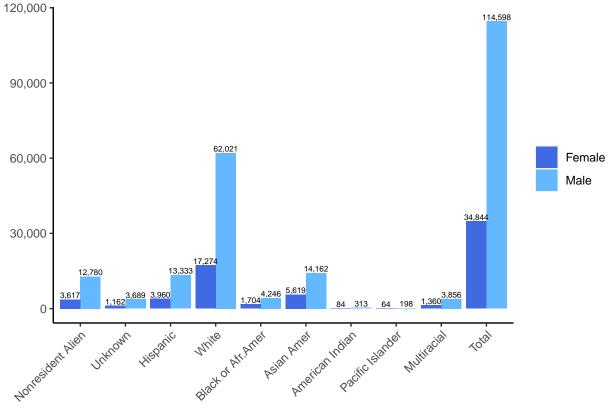
1.1.9 Bachelors Degrees Awarded by Race, Ethnicity and Gender

Table 9: Bachelor's Degrees Awarded by Race, Ethnicity, and Gender 149,442*

| Ethnicity | Degrees Awarded |
|--|-----------------|
| Nonresident Alien Male | 12,780 |
| Nonresident Alien Female | 3,617 |
| Unknown Male | 3,689 |
| Unknown Female | 1,162 |
| Hispanic Male | 13,333 |
| Hispanic Female | 3,960 |
| White Male | 62,021 |
| White Female | 17,274 |
| Black or Afr. American Male | 4,246 |
| Black or Afr. American Female | 1,704 |
| Asian American Male | 14,162 |
| Asian American Female | 5,619 |
| American Indian Male | 313 |
| American Indian Female | 84 |
| Native Hawaiian/Other Pacfic Islander Male | 198 |
| Native Hawaiian/Other Pacfic Islander Female | 64 |
| Multiracial Male | 3,856 |
| Multiracial Female | 1,360 |
| Total Male | 114,598 |
| Total Female | 34,844 |

^{*} Total degree includes 0 total Non binary graduates and 0 total Other Gender graduates.

Bachelor...s Degrees Awarded by Race, Ethnicity, and Gender



1.1.10 Top 50 Institutions by Total Bachelors Degrees awarded to Underrepresented Minorities

Table 10: Top 50 Institutions by Total Bachelors Degrees awarded to Underrepresented Minorities

| No | Institutions | Degrees Awarded |
|----|---|-----------------|
| 1 | Florida International University | 911 |
| 2 | University of Central Florida | 569 |
| 3 | Texas A&M University | 539 |
| 4 | University of Puerto Rico, Mayaguez Campus | 492 |
| 5 | The University of Texas at El Paso | 474 |
| 6 | Arizona State University | 447 |
| 7 | University of Florida | 427 |
| 8 | Georgia Institute of Technology | 396 |
| 9 | California State Polytechnic University, Pomona | 381 |
| 10 | California State University, Long Beach | 375 |
| 11 | New Jersey Institute of Technology | 371 |
| 12 | The University of Texas at San Antonio | 352 |
| 13 | University of California, Irvine | 347 |
| 14 | The University of Texas Rio Grande Valley | 333 |
| 15 | The University of Texas at Austin | 314 |
| 16 | Texas Tech University | 295 |
| 17 | University of South Florida | 251 |
| 18 | California State University, Los Angeles | 249 |
| 19 | University of Maryland, College Park | 239 |

^{*} Includes 364 male and 128 female graduates from Puerto Rico.

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

| 20California State University, Northridge23821San Jose State University22922The University of Texas at Dallas22023California State University, Fullerton21723Texas A&M University - Kingsville21725California Polytechnic State University, San Luis Obispo21426George Mason University21127University of Arizona21128University of California, Riverside21029The University of Texas at Arlington20830California State University, Sacramento20631North Carolina A&T State University20532San Diego State University of New Jersey, School of Engineering19634University of Illinois at Chicago19335University of Illinois at Uribana-Champaign18536Florida Atlantic University18437FAMU-FSU College of Engineering18038New Mexico State University17839Massachusetts Institute of Technology16740University of Colorado Boulder16541University of California, Davis16342University of California, Davis16343Texas State University15644University of Maryland, Baltimore County15546University of Maryland, Baltimore County15547University of California, Merced149 | No | Institutions | Degrees Awarded |
|--|----|--|-----------------|
| The University of Texas at Dallas California State University, Fullerton Texas A&M University - Kingsville California Polytechnic State University, San Luis Obispo George Mason University University of Arizona University of California, Riverside The University of Texas at Arlington California State University, Sacramento North Carolina A&T State University San Diego State University San Diego State University of New Jersey, School of Engineering University of Illinois at Chicago University of Illinois at Urbana-Champaign Florida Atlantic University Florida Atlantic University New Mexico State University New Mexico State University Massachusetts Institute of Technology University of Colorado Boulder University of California, Davis Texas State University Stanford University Sta | 20 | California State University, Northridge | 238 |
| 23California State University - Kingsville21723Texas A&M University - Kingsville21725California Polytechnic State University, San Luis Obispo21426George Mason University21127University of Arizona21128University of California, Riverside21029The University of Texas at Arlington20830California State University, Sacramento20631North Carolina A&T State University20532San Diego State University of New Jersey, School of Engineering19634University of Illinois at Chicago19335University of Illinois at Urbana-Champaign18536Florida Atlantic University18437FAMU-FSU College of Engineering18038New Mexico State University17839Massachusetts Institute of Technology16740University of Colorado Boulder16541University of California-Santa Cruz16442University of California-Santa Cruz16444University of California, Davis16337Texas State University15948Stanford University15949Stanford University15540University of Maryland, Baltimore County15540University of Michigan15540University of Michigan15541University of Michigan155 | 21 | San Jose State University | 229 |
| Texas A&M University - Kingsville California Polytechnic State University, San Luis Obispo 214 George Mason University 211 University of Arizona 211 University of California, Riverside 210 The University of Texas at Arlington 208 California State University, Sacramento 209 The University of Texas at Arlington 208 California State University 205 San Diego State University 205 Rutgers, The State University of New Jersey, School of Engineering University of Illinois at Chicago University of Illinois at Urbana-Champaign 193 University of Illinois at Urbana-Champaign 184 FAMU-FSU College of Engineering New Mexico State University 178 Massachusetts Institute of Technology 167 University of Colorado Boulder 168 University of California-Santa Cruz 169 University of California, Davis 160 Texas State University 150 Kennesaw State University 151 Coregon State University 152 University of Maryland, Baltimore County University of Maryland, Baltimore County University of Michigan 155 University of Michigan 155 Rensselaer Polytechnic Institute | 22 | The University of Texas at Dallas | 220 |
| 25California Polytechnic State University, San Luis Obispo21426George Mason University21126University of Arizona21128University of California, Riverside21029The University of Texas at Arlington20830California State University, Sacramento20631North Carolina A&T State University20532San Diego State University of New Jersey, School of Engineering19634University of Illinois at Chicago19335University of Illinois at Urbana-Champaign18536Florida Atlantic University18437FAMU-FSU College of Engineering18038New Mexico State University17839Massachusetts Institute of Technology16740University of Colorado Boulder16541University of California-Santa Cruz16442University of California, Davis16343Texas State University16044Kennesaw State University15945Stanford University15646Oregon State University15546University of Maryland, Baltimore County15547University of Michigan15548Rensselaer Polytechnic Institute154 | 23 | California State University, Fullerton | 217 |
| George Mason University 211 University of Arizona 211 University of California, Riverside 210 The University of Texas at Arlington 208 California State University, Sacramento 206 North Carolina A&T State University 205 San Diego State University of New Jersey, School of Engineering 196 University of Illinois at Chicago 193 University of Illinois at Urbana-Champaign 185 Florida Atlantic University 184 FAMU-FSU College of Engineering 180 New Mexico State University 178 New Mexico State University 178 Massachusetts Institute of Technology 167 University of Colorado Boulder 165 University of California-Santa Cruz 164 University of California, Davis 163 Texas State University 159 Stanford University 156 Oregon State University 155 University of Maryland, Baltimore County 155 University of Michigan 155 Rensselaer Polytechnic Institute | 23 | Texas A&M University - Kingsville | 217 |
| University of Arizona 210 University of California, Riverside 210 The University of Texas at Arlington 208 California State University, Sacramento 206 North Carolina A&T State University 205 San Diego State University 205 Rutgers, The State University of New Jersey, School of Engineering 196 University of Illinois at Chicago 193 University of Illinois at Urbana-Champaign 185 Florida Atlantic University 184 FAMU-FSU College of Engineering 180 New Mexico State University 178 Massachusetts Institute of Technology 167 University of Colorado Boulder 165 University of California-Santa Cruz 164 University of California, Davis 163 Texas State University 159 Stanford University 156 Oregon State University 155 University of Maryland, Baltimore County 155 University of Michigan 155 Rensselaer Polytechnic Institute | 25 | California Polytechnic State University, San Luis Obispo | 214 |
| University of California, Riverside The University of Texas at Arlington California State University, Sacramento North Carolina A&T State University San Diego State University Cubic San Diego State University of New Jersey, School of Engineering University of Illinois at Chicago University of Illinois at Urbana-Champaign Florida Atlantic University FAMU-FSU College of Engineering New Mexico State University Massachusetts Institute of Technology University of Colorado Boulder University of California-Santa Cruz University of California, Davis Texas State University Stanford University Stanford University University of Maryland, Baltimore County University of Michigan Rensselaer Polytechnic Institute | 26 | , | 211 |
| The University of Texas at Arlington California State University, Sacramento North Carolina A&T State University San Diego State University Cuber San Diego State University of New Jersey, School of Engineering University of Illinois at Chicago Cuber Stories State University of New Jersey, School of Engineering University of Illinois at Urbana-Champaign Cuber Stories State University Formula Atlantic University FAMU-FSU College of Engineering New Mexico State University New Mexico State University Massachusetts Institute of Technology University of Colorado Boulder University of California-Santa Cruz University of California, Davis Texas State University Kennesaw State University Stanford University University of Maryland, Baltimore County University of Michigan Rensselaer Polytechnic Institute | 26 | University of Arizona | 211 |
| California State University, Sacramento North Carolina A&T State University San Diego State University Rutgers, The State University of New Jersey, School of Engineering University of Illinois at Chicago University of Illinois at Urbana-Champaign Florida Atlantic University FAMU-FSU College of Engineering New Mexico State University Massachusetts Institute of Technology University of Colorado Boulder University of California-Santa Cruz University of California, Davis Texas State University Stanford University Stanford University Oregon State University University of Maryland, Baltimore County University of Michigan Rensselaer Polytechnic Institute | 28 | | |
| 31North Carolina A&T State University20531San Diego State University20533Rutgers, The State University of New Jersey, School of Engineering19634University of Illinois at Chicago19335University of Illinois at Urbana-Champaign18536Florida Atlantic University18437FAMU-FSU College of Engineering18038New Mexico State University17839Massachusetts Institute of Technology16740University of Colorado Boulder16541University of California-Santa Cruz16442University of California, Davis16343Texas State University16044Kennesaw State University15945Stanford University15646Oregon State University15546University of Maryland, Baltimore County15546University of Michigan15549Rensselaer Polytechnic Institute154 | 29 | , | |
| 31San Diego State University20533Rutgers, The State University of New Jersey, School of Engineering19634University of Illinois at Chicago19335University of Illinois at Urbana-Champaign18536Florida Atlantic University18437FAMU-FSU College of Engineering18038New Mexico State University17839Massachusetts Institute of Technology16740University of Colorado Boulder16541University of California-Santa Cruz16442University of California, Davis16343Texas State University16044Kennesaw State University15945Stanford University15646Oregon State University15546Oregon State University15546University of Maryland, Baltimore County15547University of Michigan15548Rensselaer Polytechnic Institute154 | 30 | California State University, Sacramento | 206 |
| Rutgers, The State University of New Jersey, School of Engineering University of Illinois at Chicago Structure of Illinois at Urbana-Champaign Structure of Illinois at Chicago Structure of | 31 | | |
| 34University of Illinois at Chicago19335University of Illinois at Urbana-Champaign18536Florida Atlantic University18437FAMU-FSU College of Engineering18038New Mexico State University17839Massachusetts Institute of Technology16740University of Colorado Boulder16541University of California-Santa Cruz16442University of California, Davis16343Texas State University16044Kennesaw State University15945Stanford University15646Oregon State University15546University of Maryland, Baltimore County15546University of Michigan15549Rensselaer Polytechnic Institute154 | | , | |
| University of Illinois at Urbana-Champaign Florida Atlantic University FAMU-FSU College of Engineering New Mexico State University Massachusetts Institute of Technology University of Colorado Boulder University of California-Santa Cruz University of California, Davis Texas State University Kennesaw State University Stanford University Oregon State University University of Maryland, Baltimore County University of Michigan Rensselaer Polytechnic Institute | 33 | | |
| Florida Atlantic University FAMU-FSU College of Engineering Rew Mexico State University Massachusetts Institute of Technology University of Colorado Boulder University of California-Santa Cruz University of California, Davis Texas State University Kennesaw State University Stanford University Oregon State University University of Maryland, Baltimore County University of Michigan Rensselaer Polytechnic Institute | | | |
| 37FAMU-FSU College of Engineering18038New Mexico State University17839Massachusetts Institute of Technology16740University of Colorado Boulder16541University of California-Santa Cruz16442University of California, Davis16343Texas State University16044Kennesaw State University15945Stanford University15646Oregon State University15546University of Maryland, Baltimore County15546University of Michigan15549Rensselaer Polytechnic Institute154 | 35 | University of Illinois at Urbana-Champaign | 185 |
| 38New Mexico State University17839Massachusetts Institute of Technology16740University of Colorado Boulder16541University of California-Santa Cruz16442University of California, Davis16343Texas State University16044Kennesaw State University15945Stanford University15646Oregon State University15546University of Maryland, Baltimore County15549Rensselaer Polytechnic Institute154 | 36 | Florida Atlantic University | 184 |
| 39Massachusetts Institute of Technology16740University of Colorado Boulder16541University of California-Santa Cruz16442University of California, Davis16343Texas State University16044Kennesaw State University15945Stanford University15646Oregon State University15546University of Maryland, Baltimore County15549Rensselaer Polytechnic Institute154 | 37 | | 180 |
| 40University of Colorado Boulder16541University of California-Santa Cruz16442University of California, Davis16343Texas State University16044Kennesaw State University15945Stanford University15646Oregon State University15546University of Maryland, Baltimore County15546University of Michigan15549Rensselaer Polytechnic Institute154 | 38 | New Mexico State University | 178 |
| 41University of California-Santa Cruz16442University of California, Davis16343Texas State University16044Kennesaw State University15945Stanford University15646Oregon State University15546University of Maryland, Baltimore County15546University of Michigan15549Rensselaer Polytechnic Institute154 | 39 | Massachusetts Institute of Technology | 167 |
| 42University of California, Davis16343Texas State University16044Kennesaw State University15945Stanford University15646Oregon State University15546University of Maryland, Baltimore County15546University of Michigan15549Rensselaer Polytechnic Institute154 | | , and the state of | |
| 43Texas State University16044Kennesaw State University15945Stanford University15646Oregon State University15546University of Maryland, Baltimore County15546University of Michigan15549Rensselaer Polytechnic Institute154 | | • | |
| 44Kennesaw State University15945Stanford University15646Oregon State University15546University of Maryland, Baltimore County15546University of Michigan15549Rensselaer Polytechnic Institute154 | | | |
| 45Stanford University15646Oregon State University15546University of Maryland, Baltimore County15546University of Michigan15549Rensselaer Polytechnic Institute154 | | | |
| 46Oregon State University15546University of Maryland, Baltimore County15546University of Michigan15549Rensselaer Polytechnic Institute154 | 44 | , | |
| 46University of Maryland, Baltimore County15546University of Michigan15549Rensselaer Polytechnic Institute154 | | · · · · · · · · · · · · · · · · · · · | |
| 46 University of Michigan 155 49 Rensselaer Polytechnic Institute 154 | | , , | |
| 49 Rensselaer Polytechnic Institute 154 | 46 | | |
| 49 Rensselaer Polytechnic Institute 50 University of California, Merced 154 149 | | | |
| 50 University of California, Merced 149 | | Rensselaer Polytechnic Institute | 154 |
| | 50 | University of California, Merced | 149 |

^{* 429} Institutions included

1.1.11 Top 50 Institutions by Total Bachelors Degrees awarded to Women

Table 11: Top 50 Institutions by Total Bachelors Degrees awarded to Women

| No | Institutions | Degrees Awarded |
|----|--|-----------------|
| 1 | Georgia Institute of Technology | 961 |
| 2 | Purdue University | 583 |
| 3 | University of Michigan | 578 |
| 4 | Texas A&M University | 574 |
| 5 | University of Illinois at Urbana-Champaign | 508 |
| 6 | University of California, Irvine | 502 |
| 7 | The University of Texas at Austin | 498 |
| 8 | University of California, Berkeley | 477 |
| 9 | University of Florida | 459 |
| 10 | The Ohio State University | 431 |
| 11 | Arizona State University | 428 |
| 12 | Virginia Polytechnic Institute and State University | 422 |
| 13 | The Pennsylvania State University | 421 |
| 14 | California Polytechnic State University, San Luis Obispo | 419 |
| 15 | University of Maryland, College Park | 418 |
| 16 | University of Washington in Seattle | 402 |
| 17 | Cornell University | 390 |
| 18 | North Carolina State University | 372 |
| 19 | Massachusetts Institute of Technology | 367 |
| 20 | University of Wisconsin-Madison | 361 |
| 21 | University of California, San Diego | 352 |
| 22 | Oregon State University | 340 |
| 23 | Rensselaer Polytechnic Institute | 339 |
| 24 | Rutgers, The State University of New Jersey, School of Engineering | 337 |
| 24 | Stony Brook University | 337 |
| 26 | University of Colorado Boulder | 324 |
| 27 | Northeastern University | 323 |
| 28 | University of Central Florida | 308 |
| 29 | University of Virginia | 307 |
| 30 | Colorado School of Mines | 301 |
| 31 | University of Minnesota -Twin Cities | 288 |
| 32 | Iowa State University | 287 |
| 33 | Missouri University of Science and Technology | 285 |
| 34 | Clemson University | 284 |
| 35 | Stanford University | 281 |
| 35 | Worcester Polytechnic Institute | 281 |
| 37 | Michigan State University | 280 |
| 38 | University of California, Davis | 270 |
| 39 | University of Pittsburgh | 258 |
| 40 | Florida International University | 251 |
| 41 | Carnegie Mellon University | 246 |

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

| No | Institutions | Degrees Awarded |
|----|---|-----------------|
| 42 | California State Polytechnic University, Pomona | 245 |
| 43 | The University of Alabama | 244 |
| 44 | Auburn University | 232 |
| 45 | Boston University | 230 |
| 45 | New Jersey Institute of Technology | 230 |
| 45 | University of California, Los Angeles | 230 |
| 48 | Louisiana State University | 228 |
| 49 | George Mason University | 225 |
| 50 | University of Southern California | 218 |

^{* 429} Institutions included

1.1.12 Top 50 Institutions by Percentage of Bachelors Degrees awarded to Underrepresented Minorities

Table 12: Top 50 Institutions by Percentage of Bachelors Degrees awarded to Underrepresented Minorities

| No | Institutions | Percent Underrepresented Minorities |
|-------|--|-------------------------------------|
| 1 | Navajo Technical University | 100% |
| 1 | University of Puerto Rico, Mayaguez Campus | 100% |
| 3 | Hampton University | 96.9% |
| 4 | Texas A & M International University | 94.6% |
| 5 | Alabama A & M University | 93.5% |
| 6 | Central State University | 91.7% |
| 7 | The University of Texas Rio Grande Valley | 87.2% |
| 8 | Tuskegee University | 85.7% |
| 9 | Norfolk State University | 81.8% |
| 10 | South Carolina State University | 80% |
| 11 | Jackson State University | 75.3% |
| 12 | The University of Texas at El Paso | 74.6% |
| 13 | Florida International University | 73.6% |
| 14 | Prairie View A & M University | 70.9% |
| 15 | North Carolina A&T State University | 70.7% |
| 16 | Texas A&M University - Kingsville | 60.1% |
| 17 | Howard University | 59% |
| 18 | University of Texas of the Permian Basin | 57.8% |
| 19 | California State University, Los Angeles | 57.6% |
| 20 | The University of Texas at San Antonio | 53.9% |
| 21 | New Mexico State University | 52.2% |
| 22 | California State University-San Bernardino | 48.3% |
| 23 | Morgan State University | 48% |
| 24 | California State University-Bakersfield | 47.8% |
| 25 | St. Mary's University | 47.3% |
| 26 | University of California, Merced | 45.2% |
| 27 | University of Houston-Clear Lake | 45.1% |
| 28 | The University of New Mexico | 44.6% |
| 29 | Bethune-Cookman University | 42.9% |
| 30 | University of Maryland Eastern Shore | 42.1% |
| 31 | New Mexico Institute of Mining and Technology | 41.3% |
| 32 | Florida Atlantic University | 40.9% |
| 33 | Texas State University | 40.5% |
| 34 | Tennessee State University | 38.9% |
| 35 | California State Polytechnic University, Pomona | 38% |
| 36 | University of the District of Columbia | 37.4% |
| 37 | Walla Walla University | 37.3% |
| 38 | Virginia State University | 37.3% |
| 39 | California State University-Fresno | 37.1% |
| 40 | The University of Texas at Tyler | 36.3% |
| 41 | California State University, Long Beach | 36% |
| 42 | Tarleton State University | 35.3% |
| 43 | West Texas A & M University | 35.1% |
| 44 | California Baptist University | 34.1% |
| 45 | University of Central Florida | 33.7% |
| 46 | New Jersey Institute of Technology | 33.4% |
| 47 | Colorado State University, Pueblo | 33.3% |
| 47 | Fairleigh Dickinson University-Metropolitan Campus | 33.3% |
| 47 | Fort Lewis College | 33.3% |
| 47 | Lamar University | 33.3% |
| * 420 |) Institutions included | - |

⁴²⁹ Institutions included

1.1.13 Top 20 Institutions by Percentage of Bachelors Degrees awarded to Women

Table 13: Top 20 Institutions by Percentage of Bachelors Degrees awarded to Women

| No | Institutions | Percent Women |
|-----|---------------------------------------|---------------|
| 1 | Smith College | 100% |
| 1 | Sweet Briar College | 100% |
| 3 | Central State University | 58.3% |
| 4 | Trinity College | 54.5% |
| 5 | University of South Carolina-Aiken | 53.3% |
| 6 | Loyola University Chicago | 52.4% |
| 7 | Bates College | 50% |
| 7 | Navajo Technical University | 50% |
| 9 | Massachusetts Institute of Technology | 46% |
| 10 | Olin College of Engineering | 45.6% |
| 11 | Cornell University | 44.6% |
| 12 | Carnegie Mellon University | 43.2% |
| 13 | University of Portland | 42.7% |
| 14 | California Institute of Technology | 42.6% |
| 15 | Stanford University | 42% |
| 16 | Swarthmore College | 41.7% |
| 17 | The George Washington University | 41.6% |
| 18 | Brown University | 41.2% |
| 19 | Lafayette College | 41.1% |
| _20 | U.S. Coast Guard Academy | 40.2% |

^{* 429} Institutions included

1.1.14 Top 20 Institutions by Total Bachelors Degrees awarded to African Americans

Table 14: Top 20 Institutions by Total Bachelors Degrees awarded to African Americans

| No | Institutions | Degrees Awarded |
|----|--|-----------------|
| 1 | New Jersey Institute of Technology | 286 |
| 2 | North Carolina A&T State University | 196 |
| 3 | Georgia Institute of Technology | 171 |
| 4 | University of Maryland, College Park | 123 |
| 5 | University of Central Florida | 117 |
| 6 | Prairie View A & M University | 114 |
| 7 | Kennesaw State University | 103 |
| 8 | University of Maryland, Baltimore County | 102 |
| 9 | George Mason University | 96 |
| 10 | Tuskegee University | 95 |
| 11 | Florida International University | 93 |
| 11 | Morgan State University | 93 |
| 13 | Alabama A & M University | 84 |
| 14 | Texas Tech University | 75 |
| 15 | Louisiana State University | 67 |
| 16 | Georgia Southern University | 66 |
| 17 | Florida Atlantic University | 63 |
| 18 | Mississippi State University | 60 |
| 19 | FAMU-FSU College of Engineering | 59 |
| 20 | Clemson University | 56 |

^{* 429} Institutions included

1.1.15 Top 20 Institutions by Total Bachelors Degrees awarded to Asian Americans

Table 15: Top 20 Institutions by Total Bachelors Degrees awarded to Asian Americans

| No | Institutions | Degrees Awarded |
|----|--|-----------------|
| 1 | University of California, Berkeley | 936 |
| 2 | University of California, Irvine | 841 |
| 3 | Georgia Institute of Technology | 662 |
| 4 | University of Illinois at Urbana-Champaign | 643 |
| 5 | The University of Texas at Austin | 620 |
| 6 | Rutgers, The State University of New Jersey, School of Engineering | 571 |
| 7 | University of Michigan | 474 |
| 8 | University of California, San Diego | 456 |
| 9 | University of Maryland, College Park | 419 |
| 10 | Stony Brook University | 412 |
| 11 | University of California, Los Angeles | 411 |
| 12 | University of California-Santa Cruz | 396 |
| 13 | University of Washington in Seattle | 382 |
| 14 | San Jose State University | 380 |
| 15 | George Mason University | 374 |
| 16 | The University of Texas at Dallas | 365 |
| 17 | Purdue University | 304 |
| 18 | California State University, Long Beach | 302 |
| 19 | Texas A&M University | 290 |
| 20 | University of California, Davis | 280 |

⁴²⁹ Institutions included

1.1.16 Top 20 Institutions by Total Bachelors Degrees awarded to Hispanics

Table 16: Top 20 Institutions by Total Bachelors Degrees awarded to Hispanics

| No | Institutions | Degrees Awarded |
|----|---|-----------------|
| 1 | Florida International University | 818 |
| 2 | University of Puerto Rico, Mayaguez Campus | 492 |
| 3 | Texas A&M University | 474 |
| 4 | The University of Texas at El Paso | 470 |
| 5 | University of Central Florida | 450 |
| 6 | Arizona State University | 391 |
| 7 | University of Florida | 372 |
| 8 | California State Polytechnic University, Pomona | 354 |
| 9 | California State University, Long Beach | 347 |
| 10 | The University of Texas Rio Grande Valley | 333 |
| 11 | University of California, Irvine | 320 |
| 12 | The University of Texas at San Antonio | 315 |
| 13 | The University of Texas at Austin | 267 |
| 14 | California State University, Los Angeles | 238 |
| 15 | California State University, Northridge | 229 |
| 16 | Georgia Institute of Technology | 223 |
| 17 | Texas Tech University | 217 |
| 18 | California State University, Fullerton | 211 |
| 19 | San Jose State University | 210 |
| 20 | Texas A&M University - Kingsville | 205 |

^{* 429} Institutions included

1.1.17 Top 20 Institutions by Total Bachelors Degrees awarded in Aerospace Engineering

Table 17: Top 20 Institutions by Total Bachelors Degrees awarded in Aerospace Engineering

| No | Institutions | Degrees Awarded |
|----|--|-----------------|
| 1 | Purdue University | 250 |
| 2 | West Virginia University | 238 |
| 3 | University of Colorado Boulder | 220 |
| 4 | Embry Riddle Aeronautical University-Daytona Beach | 206 |
| 5 | Georgia Institute of Technology | 197 |
| 6 | The University of Texas at Austin | 189 |
| 7 | University of Central Florida | 184 |
| 8 | Embry Riddle Aeronautical University, Prescott | 150 |
| 9 | Iowa State University | 148 |
| 10 | University of Maryland, College Park | 145 |
| 11 | Texas A&M University | 143 |
| 12 | Virginia Polytechnic Institute and State University | 138 |
| 13 | The Pennsylvania State University | 134 |
| 14 | University of Florida | 133 |
| 15 | University of Michigan | 132 |
| 16 | University of Southern California | 124 |
| 17 | California Polytechnic State University, San Luis Obispo | 116 |
| 18 | California State Polytechnic University, Pomona | 109 |
| 19 | University of Illinois at Urbana-Champaign | 95 |
| 20 | The University of Alabama | 88 |

^{* 64} Institutions included

1.1.18 Top 20 Institutions by Total Bachelors Degrees awarded in Biomedical Engineering

Table 18: Top 20 Institutions by Total Bachelors Degrees awarded in Biomedical Engineering

| No | Institutions | Degrees Awarded |
|----|--|-----------------|
| 1 | Georgia Institute of Technology | 246 |
| 2 | University of California, San Diego | 151 |
| 3 | Texas A&M University | 149 |
| 4 | Boston University | 142 |
| 5 | The University of Texas at Austin | 131 |
| 6 | The Johns Hopkins University | 130 |
| 7 | North Carolina State University | 127 |
| 8 | Arizona State University | 123 |
| 9 | Rutgers, The State University of New Jersey, School of Engineering | 120 |
| 9 | The Pennsylvania State University | 120 |
| 9 | University of California, Irvine | 120 |
| 12 | Clemson University | 117 |
| 12 | University of Maryland, College Park | 117 |
| 14 | The University of Iowa | 112 |
| 15 | Rensselaer Polytechnic Institute | 102 |
| 15 | The University of Texas at Dallas | 102 |
| 17 | Drexel University | 99 |
| 18 | California Polytechnic State University, San Luis Obispo | 98 |
| 18 | University of Michigan | 98 |
| 18 | Worcester Polytechnic Institute | 98 |

^{* 168} Institutions included

1.1.19 Top 50 Institutions by Total Bachelors Degrees awarded in Chemical Engineering

Table 19: Top 50 Institutions by Total Bachelors Degrees awarded in Chemical Engineering

| No | Institutions | Degrees Awarded |
|-------|---|-----------------|
| 1 | Texas A&M University | 223 |
| 2 | The University of Alabama | 199 |
| 3 | Georgia Institute of Technology | 193 |
| 4 | The Pennsylvania State University | 191 |
| 5 | The Ohio State University | 183 |
| 6 | The University of Texas at Austin | 180 |
| 7 | Arizona State University | 164 |
| 8 | Purdue University | 161 |
| 9 | Michigan State University | 144 |
| 10 | University of Illinois at Urbana-Champaign | 143 |
| 11 | Colorado School of Mines | 140 |
| 12 | Auburn University | 136 |
| 13 | University of South Florida | 132 |
| 14 | North Carolina State University | 131 |
| 15 | University of California, Davis | 130 |
| 16 | Iowa State University | 128 |
| 16 | Montana State University | 128 |
| 16 | Northeastern University | 128 |
| 19 | Louisiana State University | 127 |
| 20 | Oregon State University | 118 |
| 21 | University of Kentucky | 117 |
| 22 | University of Michigan | 113 |
| 22 | University of Wisconsin-Madison | 113 |
| 24 | University of California, Berkeley | 110 |
| 24 | University of Minnesota -Twin Cities | 110 |
| 24 | Virginia Polytechnic Institute and State University | 110 |
| 27 | Mississippi State University | 109 |
| 27 | Rensselaer Polytechnic Institute | 109 |
| 29 | University of California, San Diego | 107 |
| 29 | University of Florida | 107 |
| 31 | University of Cincinnati | 106 |
| 32 | Missouri University of Science and Technology | 101 |
| 33 | Texas Tech University | 98 |
| 34 | Brigham Young University | 97 |
| 34 | Colorado State University | 97 |
| 34 | University of Pittsburgh | 97 |
| 37 | University of Oklahoma, Gallogly College of Engineering | 93 |
| 38 | University of Massachusetts Amherst | 92 |
| 39 | California State University, Long Beach | 91 |
| 39 | West Virginia University | 91 |
| 41 | Michigan Technological University | 90 |
| 41 | University of Kansas | 90 |
| 43 | University of Arkansas | 88 |
| 44 | University of Maryland, College Park | 85 |
| 45 | University of Notre Dame | 84 |
| 46 | University of Massachusetts Lowell | 83 |
| 47 | NYU Tandon School of Engineering | 80 |
| 47 | University at Buffalo, SUNY | 80 |
| 49 | California State Polytechnic University, Pomona | 79 |
| 49 | University of Colorado Boulder | 79 |
| * 400 |) Institutions included | 1 |

^{* 160} Institutions included

1.1.20 Top 50 Institutions by Total Bachelors Degrees awarded in Civil Engineering

Table 20: Top 50 Institutions by Total Bachelors Degrees awarded in Civil Engineering

| No | Institutions | Degrees Awarded |
|----|--|-----------------|
| 1 | California State Polytechnic University, Pomona | 261 |
| 2 | Texas A&M University | 254 |
| 3 | The Pennsylvania State University | 217 |
| 4 | Iowa State University | 197 |
| 5 | San Diego State University | 191 |
| 6 | Purdue University | 188 |
| 6 | Virginia Polytechnic Institute and State University | 188 |
| 8 | University of Illinois at Urbana-Champaign | 180 |
| 9 | California State University, Long Beach | 176 |
| 10 | New Jersey Institute of Technology | 169 |
| 11 | North Carolina State University | 161 |
| 12 | California State University, Northridge | 159 |
| 13 | California Polytechnic State University, San Luis Obispo | 154 |
| 14 | California State University, Sacramento | 146 |
| 15 | University of Florida | 145 |
| 16 | The University of Texas at Austin | 144 |
| 17 | The University of Texas at Arlington | 141 |
| 18 | Georgia Institute of Technology | 140 |
| 19 | Clemson University | 138 |
| 19 | San Jose State University | 138 |

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

| No | Institutions | Degrees Awarded |
|-------|---|-----------------|
| 21 | University of Washington in Seattle | 135 |
| 22 | The University of Alabama | 132 |
| 23 | University of South Florida | 129 |
| 24 | Florida International University | 128 |
| 24 | Michigan State University | 128 |
| 24 | University at Buffalo, SUNY | 128 |
| 27 | Oregon State University | 127 |
| 27 | University of Central Florida | 127 |
| 29 | University of California, Davis | 126 |
| 30 | Auburn University | 125 |
| 31 | Louisiana State University | 119 |
| 32 | California State University, Fullerton | 113 |
| 33 | Kennesaw State University | 112 |
| 34 | University of Nebraska, Lincoln | 111 |
| 35 | University of Wisconsin-Madison | 108 |
| 36 | Manhattan College | 105 |
| 37 | Missouri University of Science and Technology | 104 |
| 38 | Colorado State University | 100 |
| 38 | University of California, San Diego | 100 |
| 40 | University of Maryland, College Park | 99 |
| 41 | Washington State University | 97 |
| 42 | University of Missouri | 95 |
| 43 | City College of the City University of New York | 93 |
| 43 | FAMU-FSU College of Engineering | 93 |
| 43 | University of California, Irvine | 93 |
| 46 | Mississippi State University | 92 |
| 46 | Texas A&M University - Kingsville | 92 |
| 46 | University of Arkansas | 92 |
| 46 | University of Nevada, Reno | 92 |
| 46 | University of Tennessee, Knoxville | 92 |
| * 241 | 1 Institutions included | |

²⁴⁰ Institutions included

1.1.21 Top 50 Institutions by Total Bachelors Degrees awarded in Industrial/Manufacturing Engineering

Table 21: Top 50 Institutions by Total Bachelors Degrees awarded in Industrial/Manufacturing Engineering

| No | Institutions | Degrees Awarded |
|----|--|-----------------|
| 1 | Georgia Institute of Technology | 395 |
| 2 | Purdue University | 278 |
| 3 | The Pennsylvania State University | 205 |
| 4 | Arizona State University | 194 |
| 5 | University of Michigan | 184 |
| 5 | Virginia Polytechnic Institute and State University | 184 |
| 7 | Texas A&M University | 162 |
| 8 | Clemson University | 159 |
| 9 | University of Central Florida | 145 |
| 10 | Oregon State University | 132 |
| 11 | Auburn University | 130 |
| 12 | University of Illinois at Urbana-Champaign | 129 |
| 13 | Lehigh University | 128 |
| 14 | Iowa State University | 126 |
| 14 | University of Virginia | 126 |
| 16 | The Ohio State University | 122 |
| 17 | University of Florida | 119 |
| 18 | University of Wisconsin-Madison | 116 |
| 19 | California Polytechnic State University, San Luis Obispo | 111 |
| 19 | California State Polytechnic University, Pomona | 111 |
| 19 | University of Arizona | 111 |
| 22 | West Virginia University | 99 |
| 23 | Cornell University | 90 |
| 24 | Northwestern University | 89 |
| 25 | North Carolina State University | 84 |
| 25 | University of Pittsburgh | 84 |
| 25 | Wichita State University | 84 |
| 28 | University of Minnesota -Twin Cities | 81 |
| 29 | University of South Florida | 80 |
| 30 | Stanford University | 76 |
| 31 | Texas State University | 73 |
| 31 | Texas Tech University | 73 |
| 31 | The State University of New York at Binghamton | 73 |
| 31 | The University of Texas at El Paso | 73 |
| 35 | Rochester Institute of Technology | 70 |
| 35 | Rutgers, The State University of New Jersey, School of Engineering | 70 |
| 37 | University of Arkansas | 68 |
| 38 | University of Puerto Rico, Mayaguez Campus | 67 |
| 38 | Washington University in St. Louis | 67 |
| 40 | Kansas State University | 64 |
| 40 | Louisiana State University | 64 |
| 42 | San Jose State University | 61 |

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

| No | Institutions | Degrees Awarded |
|----|---|-----------------|
| 43 | University of Washington in Seattle | 58 |
| 44 | Rensselaer Polytechnic Institute | 54 |
| 44 | University of California, Berkeley | 54 |
| 44 | University of Southern California | 54 |
| 44 | University of Wisconsin, Platteville | 54 |
| 48 | Mississippi State University | 53 |
| 49 | University of Oklahoma, Gallogly College of Engineering | 52 |
| 50 | University at Buffalo, SUNY | 51 |

^{* 141} Institutions included

1.1.22 Top 50 Institutions by Total Bachelors Degrees awarded in Mechanical Engineering

Table 22: Top 50 Institutions by Total Bachelors Degrees awarded in Mechanical Engineering

| No | Institutions | Degrees Awarded |
|------|--|-----------------|
| 1 | Georgia Institute of Technology | 572 |
| 2 | University of Central Florida | 461 |
| 3 | Texas A&M University | 437 |
| 4 | Iowa State University | 429 |
| 5 | The University of Alabama | 407 |
| 5 | Virginia Polytechnic Institute and State University | 407 |
| 7 | Purdue University | 375 |
| 8 | Rensselaer Polytechnic Institute | 364 |
| 9 | Texas Tech University | 356 |
| 10 | University at Buffalo, SUNY | 341 |
| 11 | University of Maryland, College Park | 336 |
| 12 | The Pennsylvania State University | 324 |
| 13 | University of Florida | 321 |
| 14 | Northeastern University | 318 |
| 15 | Colorado School of Mines | 314 |
| 16 | Michigan State University | 306 |
| 17 | California Polytechnic State University, San Luis Obispo | 303 |
| 18 | San Diego State University | 302 |
| 19 | Washington State University | 299 |
| 20 | University of Colorado Boulder | 292 |
| 21 | University of Michigan | 289 |
| 22 | Oregon State University | 284 |
| 23 | North Carolina State University | 283 |
| 24 | Michigan Technological University | 281 |
| 25 | Missouri University of Science and Technology | 279 |
| 26 | The University of Texas at Austin | 273 |
| 27 | Arizona State University | 264 |
| 28 | University of California, Irvine | 263 |
| 29 | Rutgers, The State University of New Jersey, School of Engineering | 258 |
| 30 | Kettering University | 255 |
| 31 | Oklahoma State University | 254 |
| 32 | The Ohio State University | 248 |
| 33 | Auburn University | 242 |
| 34 | Worcester Polytechnic Institute | 235 |
| 35 | California State University, Fullerton | 230 |
| 36 | Clemson University | 230 |
| 37 | Kennesaw State University | 225 |
| 38 | · · | 223 |
| 39 | California State University, Northridge | 224 |
| | California State Polytechnic University, Pomona | |
| 40 | Colorado State University | 218 |
| 41 | The University of Texas at Addington | 217 |
| 42 | The University of Texas at Arlington | 216 |
| 43 | Kansas State University | 213 |
| 44 | University of South Florida | 208 |
| 45 | California State University, Sacramento | 206 |
| 46 | Mississippi State University | 203 |
| 47 | The University of Alabama in Huntsville | 201 |
| 47 | University of Illinois at Urbana-Champaign | 201 |
| 49 | University of Massachusetts Lowell | 199 |
| * 33 | University of Minnesota -Twin Cities | 198 |

^{* 324} Institutions included

1.1.23 Top 50 Institutions by Total Bachelors Degrees awarded in Electrical Engineering

Table 23: Top 50 Institutions by Total Bachelors Degrees awarded in Electrical Engineering

| No | Institutions | Degrees Awarded |
|----------------------------|---|---------------------------------|
| 1 2 3 4 5 | Arizona State University Texas A&M University The Pennsylvania State University Purdue University University of Illinois at Urbana-Champaign | 302 293 232 216 203 |
| 6 7 8 9 10 | Georgia Institute of Technology California State University, Long Beach University of California, San Diego University of California, Los Angeles The University of Texas at Dallas | 197 182 158 156 145 |
| 11 11 13 14 14 | Missouri University of Science and Technology Rochester Institute of Technology California Polytechnic State University, San Luis Obispo San Diego State University Virginia Polytechnic Institute and State University | 138 138 133 132 132 |
| 16 16 18 18 20 | University at Buffalo, SUNY University of Florida University of Maryland, College Park University of Wisconsin-Madison Iowa State University | 129 129 121 121 119 |
| 21 21 23 24 24 | University of California, Davis University of Cincinnati Florida International University California State Polytechnic University, Pomona University of Central Florida | 118 118 117 116 116 |
| 24 27 28 29 30 | University of South Florida University of Michigan-Dearborn Washington State University California State University, Los Angeles The University of Texas at El Paso | 116 115 114 110 106 |
| 30 32 33 33 35 | University of Massachusetts Lowell University of Illinois at Chicago Northern Arizona University University of Hawaii at Manoa Michigan State University | 106 105 102 102 100 |
| 35 35 38 38 40 | Oakland University University of California, Irvine The University of Texas at San Antonio University of Michigan San Jose State University | 100 100 99 99 96 |
| 41 42 42 44 44 | Stevens Institute of Technology California State University, Sacramento Rensselaer Polytechnic Institute Milwaukee School of Engineering Northern Illinois University | 93 91 91 90 90 |
| 46 47 48 49 49 | Kennesaw State University The University of Texas at Arlington Texas State University New Jersey Institute of Technology Temple University | 89 88 87 86 86 |

²⁹⁸ Institutions included

1.1.24 Top 50 Institutions by Total Bachelors Degrees awarded in Computer Engineering

Table 24: Top 50 Institutions by Total Bachelors Degrees awarded in Computer Engineering

| No | Institutions | Degrees Awarded |
|----|---|-----------------|
| 1 | University of Illinois at Urbana-Champaign | 341 |
| 2 | Iowa State University | 296 |
| 3 | San Jose State University | 277 |
| 4 | Purdue University | 217 |
| 5 | Georgia Institute of Technology | 187 |
| 6 | Virginia Polytechnic Institute and State University | 175 |
| 7 | University of California, Irvine | 118 |
| 8 | Northeastern University | 114 |
| 9 | Florida International University | 110 |
| 10 | University of Central Florida | 108 |
| 10 | University of Florida | 108 |
| 12 | California State Polytechnic University, Pomona | 105 |
| 13 | University of Maryland, College Park | 98 |

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

| No | Institutions | Degrees Awarded |
|----------|---|-----------------|
| 14 | University of Michigan | 97 |
| 15 | University of Wisconsin-Madison | 96 |
| 16 | California Polytechnic State University, San Luis Obispo | 95 |
| 17 | University of California-Santa Cruz | 94 |
| 17 19 | Wichita State University Kansas State University | 94 88 |
| 19 | Rochester Institute of Technology | 88 |
| 19 | The Pennsylvania State University | 88 |
| 22 | Boston University | 87 |
| 22 | The University of Texas at Dallas | 87 |
| 24 | West Virginia University | 84 |
| 25 | Drexel University | 83 |
| 26 | University of California, San Diego | 82 |
| 27 28 | San Diego State University Arizona State University | 81 78 |
| 29 | University of Pittsburgh | 75 75 |
| 30 | Rensselaer Polytechnic Institute | 74 |
| 31 | University of California, Los Angeles | 73 |
| 32 | New Jersey Institute of Technology | 71 |
| 33 | Michigan State University | 70 |
| 34 35 | Missouri University of Science and Technology University of North Carolina at Charlotte | 69 67 |
| | • | |
| 36 36 | Clemson University University of Maryland, Baltimore County | 65 65 |
| 36 | University of Minnesota -Twin Cities | 65 |
| 36 | University of South Florida | 65 |
| 40 | California State University, Long Beach | 64 |
| 41 | University of Massachusetts Amherst | 61 |
| 42 | California State University-San Bernardino | 57 |
| 42 44 | The University of Texas at San Antonio Florida Gulf Coast University | 57 56 |
| 44 | The University of Alabama in Huntsville | 56 |
| 46 | Michigan Technological University | 55 |
| 46 | University of California, Santa Barbara | 55 |
| 46 | University of Virginia | 55 |
| 49 | Stony Brook University | 54 |
| * 00 | University of Illinois at Chicago | 53 |

²²⁹ Institutions included

1.1.25 Top 20 Institutions by Total Bachelors Degrees awarded in Electrical/Computer Engineering

Table 25: Top 20 Institutions by Total Bachelors Degrees awarded in Electrical/Computer Engineering

| No | Institutions | Degrees Awarded |
|----|--|-----------------|
| 1 | University of California, Berkeley | 440 |
| 2 | The University of Texas at Austin | 359 |
| 3 | North Carolina State University | 285 |
| 4 | Rutgers, The State University of New Jersey, School of Engineering | 265 |
| 5 | The Ohio State University | 248 |
| 6 | University of Washington in Seattle | 224 |
| 7 | Carnegie Mellon University | 140 |
| 8 | University of Arizona | 128 |
| 9 | Texas Tech University | 126 |
| 10 | Brigham Young University | 124 |
| 11 | Oregon State University | 120 |
| 12 | Massachusetts Institute of Technology | 113 |
| 13 | The University of Iowa | 112 |
| 14 | Cornell University | 101 |
| 15 | The State University of New York at Binghamton | 98 |
| 16 | New York Institute of Technology | 97 |
| 17 | Duke University | 88 |
| 18 | University of Colorado Boulder | 85 |
| 18 | Worcester Polytechnic Institute | 85 |
| 20 | Colorado State University | 80 |

^{* 115} Institutions included

1.1.26 Top 20 Institutions by Total Bachelors Degrees awarded in Computer Science (outside engineering)

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

| No | Institutions | Degrees Awarded |
|----|--|-----------------|
| 1 | University of California, Irvine | 1,142 |
| 2 | University of California, Berkeley | 713 |
| 3 | Georgia Institute of Technology | 706 |
| 4 | University of Maryland, College Park | 661 |
| 5 | University of Wisconsin-Madison | 635 |
| 6 | Rutgers, The State University of New Jersey, School of Engineering | 572 |
| 7 | Purdue University | 453 |
| 8 | The University of Texas at Austin | 445 |
| 9 | New Jersey Institute of Technology | 407 |
| 10 | University of Michigan | 399 |
| 11 | University of North Carolina at Chapel Hill | 379 |
| 12 | University of Massachusetts Amherst | 337 |
| 13 | Northeastern University | 330 |
| 14 | San Francisco State University | 265 |
| 15 | Rensselaer Polytechnic Institute | 255 |
| 16 | University of Virginia | 250 |
| 17 | FAMU-FSU College of Engineering | 238 |
| 18 | Texas State University | 232 |
| 19 | Duke University | 216 |
| 20 | University of Pittsburgh | 203 |

^{* 156} Institutions included

1.1.27 Top 50 Institutions by Total Bachelors Degrees awarded in Computer Science (inside engineering)

Table 27: Top 50 Institutions by Total Bachelors Degrees awarded in Computer Science (inside engineering)

| No | Institutions | Degrees Awarded |
|----|--|-----------------|
| 1 | Oregon State University | 651 |
| 2 | Arizona State University | 623 |
| 3 | The University of Texas at Dallas | 610 |
| 4 | University of Michigan | 568 |
| 5 | University of California-Santa Cruz | 550 |
| 6 | Florida International University | 523 |
| 7 | University of Central Florida | 519 |
| 8 | University of Illinois at Urbana-Champaign | 508 |
| 9 | University of California, San Diego | 472 |
| 10 | The Ohio State University | 421 |
| 11 | University of Washington in Seattle | 375 |
| 12 | Stony Brook University | 348 |
| 13 | Texas A&M University | 336 |
| 14 | Massachusetts Institute of Technology | 332 |
| 15 | University of Minnesota -Twin Cities | 329 |
| 16 | Virginia Polytechnic Institute and State University | 310 |
| 17 | Stanford University | 307 |
| 18 | George Mason University | 304 |
| 19 | University of California, Los Angeles | 282 |
| 20 | University at Buffalo, SUNY | 279 |
| 21 | Michigan State University | 275 |
| 22 | University of Southern California | 273 |
| 23 | Cornell University | 262 |
| 24 | California State University, Fullerton | 259 |
| 25 | University of Illinois at Chicago | 258 |
| 26 | The Pennsylvania State University | 256 |
| 27 | The University of Texas at Arlington | 249 |
| 27 | University of Maryland, Baltimore County | 249 |
| 29 | California Polytechnic State University, San Luis Obispo | 245 |
| 30 | University of Colorado Boulder | 234 |
| 31 | California State University, Northridge | 233 |
| 32 | North Carolina State University | 232 |
| 33 | University of Pennsylvania | 231 |
| 34 | University of North Texas | 224 |
| 35 | California State University, Long Beach | 220 |
| 36 | California State University, Sacramento | 217 |

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

| No | Institutions | Degrees Awarded |
|----|-------------------------------------|-----------------|
| 37 | Auburn University | 216 |
| 38 | University of Utah | 208 |
| 39 | University of Florida | 196 |
| 40 | Harvard University | 191 |
| 41 | University of California, Riverside | 185 |
| 42 | University of Virginia | 184 |
| 43 | Portland State University | 179 |
| 43 | Washington University in St. Louis | 179 |
| 45 | Washington State University | 177 |
| 46 | University of Arizona | 167 |
| 47 | NYU Tandon School of Engineering | 158 |
| 47 | Princeton University | 158 |
| 49 | Clemson University | 157 |
| 49 | University of Washington-Tacoma | 157 |

^{* 160} Institutions included

1.1.28 Top 50 Institutions by Total Bachelors Degrees awarded in Engineering (General)

Table 28: Top 50 Institutions by Total Bachelors Degrees awarded in Engineering (General)

| No | Institutions | Degrees Awarded |
|----------------------------|--|----------------------------|
| 1 2 3 4 | Dartmouth College Arizona State University Mercer University East Carolina University | 226 190 146 134 |
| 5 6 | University of Wisconsin - Stout McNeese State University Stanford University | 114 94 |
| 7 8 9 10 | Stanford University Calvin College Olivet Nazarene University James Madison University | 92 83 79 78 |
| 11 12 13 14 15 | Geneva College Harvey Mudd College Messiah College Walla Walla University Hope College | 72 68 61 59 57 |
| 15 17 17 19 20 | Montana Technological University Texas Christian University Vanderbilt University Wentworth Institute of Technology Smith College | 57 55 55 50 48 |
| 21 21 23 23 23 | Loyola University Maryland Minnesota State University-Mankato Frostburg State University North Carolina State University University of North Carolina at Asheville | 39 39 38 38 38 |
| 26 27 28 29 30 | The University of Tennessee-Martin Olin College of Engineering Western Carolina University Oral Roberts University University of Detroit Mercy | 37 35 34 33 28 |
| 31 32 32 32 35 | University of Southern Indiana Elizabethtown College Fort Lewis College Swarthmore College Marshall University | 27 24 24 24 23 |
| 36 37 38 38 38 | Trinity College Loyola University Chicago Bob Jones University Seattle Pacific University University of Maryland Eastern Shore | 22 21 19 19 19 |
| 41 41 41 44 45 | Abilene Christian University California Polytechnic State University, San Luis Obispo The University of Mississippi Andrews University University of Rochester | 17 17 17 16 13 |
| 46 46 48 48 48 | Brown University Northwest Nazarene University Hampton University Oklahoma State University Western Illinois University | 12 12 10 10 10 |

^{* 123} Institutions included

1.2 ENGINEERING UNDERGRADUATE ENROLLMENT, FALL 2020

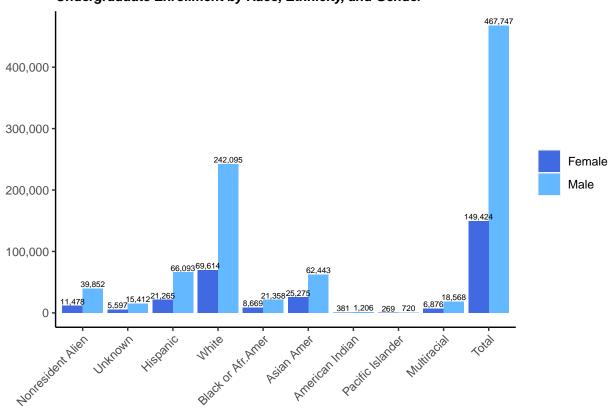
1.2.1 Undergraduate Enrollment by Race, Ethnicity, and Gender

Table 29: Undergraduate Enrollment Awarded by Race, Ethnicity, and Gender 617,171*

| Ethnicity | Enrollments |
|--|-------------|
| Nonresident Alien Male | 39,852 |
| Nonresident Alien Female | 11,478 |
| Unknown Male | 15,412 |
| Unknown Female | 5,597 |
| Hispanic Male | 66,093 |
| Hispanic Female | 21,265 |
| White Male | 242,095 |
| White Female | 69,614 |
| Black or Afr. American Male | 21,358 |
| Black or Afr. American Female | 8,669 |
| Asian American Male | 62,443 |
| Asian American Female | 25,275 |
| American Indian Male | 1,206 |
| American Indian Female | 381 |
| Native Hawaiian/Other Pacfic Islander Male | 720 |
| Native Hawaiian/Other Pacfic Islander Female | 269 |
| Multiracial Male | 18,568 |
| Multiracial Female | 6,876 |
| Total Male | 467,747 |
| Total Female | 149,424 |

^{*} Total Enrollment includes is for full time students

Undergraduate Enrollment by Race, Ethnicity, and Gender



1.2.2 Engineering Undergraduate Enrollment by Institutions

Table 30: Top 50 Engineering Undergraduate Enrollment by Institutions

| No | Institutions | Enrollment |
|----|---|------------|
| 1 | Texas A&M University | 14,808 |
| 2 | Arizona State University | 14,443 |
| 3 | University of Central Florida | 11,296 |
| 4 | Purdue University | 10,046 |
| 5 | Virginia Polytechnic Institute and State University | 9,326 |
| 6 | University of Illinois at Urbana-Champaign | 9,052 |
| 7 | Oregon State University | 8,322 |
| 8 | Georgia Institute of Technology | 8,275 |
| 9 | The Pennsylvania State University | 7,982 |
| 10 | Iowa State University | 7,814 |
| 11 | The Ohio State University | 7,717 |
| 12 | North Carolina State University | 7,193 |
| 13 | University of Michigan | 6,843 |
| 14 | George Mason University | 6,692 |
| 15 | Florida International University | 6,479 |
| 16 | The University of Texas at Dallas | 6,442 |

^{*} Includes 3,245 male and 1,267 female.

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

| No | Institutions | Enrollment |
|----------------------------|---|---|
| 17 18 19 20 | California Polytechnic State University, San Luis Obispo University of California, San Diego Michigan State University The University of Texas at Austin | 6,344 6,229 6,157 5,939 |
| 21 22 23 24 25 | University of Arizona California State Polytechnic University, Pomona Clemson University Louisiana State University Auburn University | 5,706 5,635 5,442 5,398 5,386 |
| 26 27 28 29 30 | University of Colorado Boulder Missouri University of Science and Technology University of South Florida The University of Texas at Arlington University of Washington in Seattle | 5,349 5,177 5,148 5,144 5,131 |
| 31 32 33 34 35 | The University of Alabama University of Florida University of Puerto Rico, Mayaguez Campus Colorado School of Mines California State University, Long Beach | 5,073 5,008 4,976 4,870 4,854 |
| 36 37 38 39 40 | University of California, Davis University of Cincinnati University of Wisconsin-Madison Texas Tech University University of Minnesota -Twin Cities | 4,696 4,695 4,556 4,522 4,459 |
| 41 42 43 44 45 | California State University, Northridge University of Utah California State University, Sacramento University of California, Berkeley University of Maryland, College Park | 4,418 4,354 4,346 4,314 4,186 |
| 46 47 48 49 50 | Mississippi State University University of Illinois at Chicago University at Buffalo, SUNY Washington State University Kennesaw State University | 4,176 4,174 4,119 4,050 4,001 |

^{*} Enrollment is full time plus part time students.

1.2.3 Undergraduate Enrollment by Engineering Discipline

Table 31: Undergraduate Enrollment by Engineering Discipline: 617,171

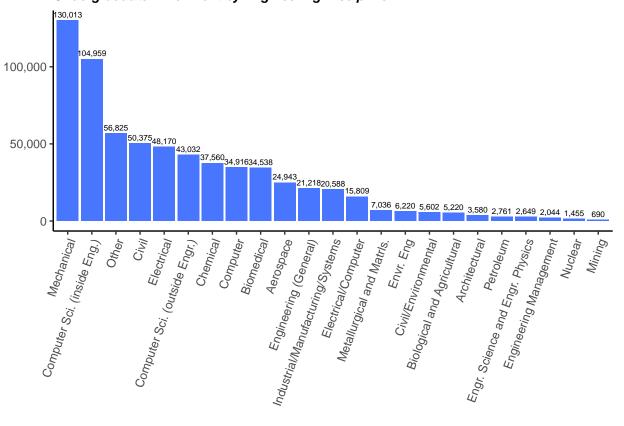
| Discipline Name | Enrollments |
|---|--------------------|
| Mechanical Computer Sci. (inside Eng.) | 130,013 104,959 |
| Other | 56,825 |
| Civil Electrical | 50,375 48,170 |
| | |
| Computer Sci. (outside Engr.) Chemical | 43,032 37,560 |
| Computer | 34,916 |
| Biomedical | 34,538 |
| Aerospace | 24,943 |
| Engineering (General) | 21,218 |
| Industrial/Manufacturing/Systems | 20,588 |
| Electrical/Computer Metallurgical and Matrls. | 15,809 7,036 |
| Envr. Eng | 6,220 |
| Civil/Environmental | 5,602 |
| Biological and Agricultural | 5,220 |
| Architectural | 3,580 |
| Petroleum | 2,761 |
| Engr. Science and Engr. Physics | 2,649 |
| Engineering Management | 2,044 |
| Nuclear | 1,455 690 |
| Mining * Tatal decreased in the Occurrence | 090 |

^{*} Total does not include Computer Science (outside engineering)

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

^{*} Enrollment is for full time bachelor's degree candidates in engineering.

Undergraduate Enrollment by Engineering Discipline



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

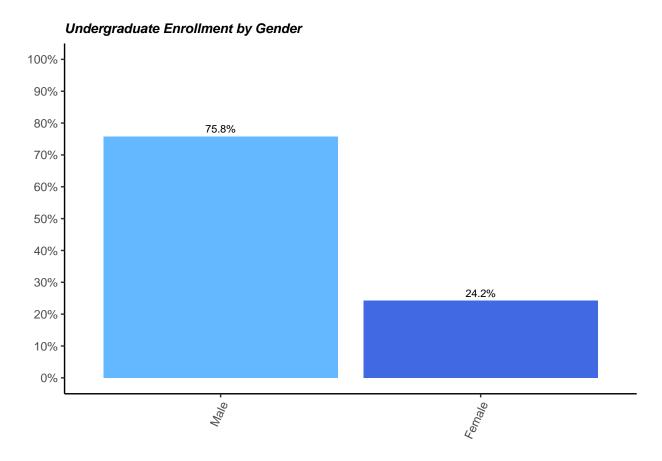
Table 32: Undergraduate Enrollment by Engineering Discipline:(Full time and Part time)

| Discipline Name | Full Time | Part Time |
|----------------------------------|-----------|-----------|
| Aerospace | 24,943 | 1,425 |
| Architectural | 3,580 | 159 |
| Biological and Agricultural | 5,220 | 236 |
| Biomedical | 34,538 | 1,487 |
| Chemical | 37,560 | 2,344 |
| Civil | 50,375 | 5,337 |
| Civil/Environmental | 5,602 | 600 |
| Computer | 34,916 | 3,446 |
| Computer Sci. (inside Eng.) | 104,959 | 16,973 |
| Electrical | 48,170 | 8,282 |
| Electrical/Computer | 15,809 | 1,413 |
| Engineering (General) | 21,218 | 1,169 |
| Engineering Management | 2,044 | 185 |
| Engr. Science and Engr. Physics | 2,649 | 184 |
| Envr. Eng | 6,220 | 385 |
| Industrial/Manufacturing/Systems | 20,588 | 2,145 |
| Mechanical | 130,013 | 14,621 |
| Metallurgical and Matrls. | 7,036 | 463 |
| Mining | 690 | 82 |
| Nuclear | 1,455 | 84 |
| Other | 56,825 | 5,707 |
| Petroleum | 2,761 | 266 |

1.2.5 Undergraduate Enrollment by Gender

Table 33: Undergraduate Enrollment by Gender

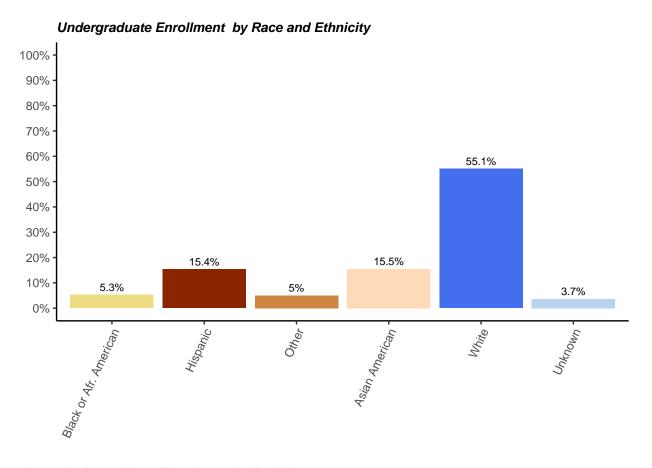
| Gender | Percentage |
|--------|------------|
| Female | 24.5% |
| Male | 75.5% |



1.2.6 Undergraduate Enrollment by Race and Ethnicity

Table 34: Undergraduate Enrollment by Race and Ethnicity*

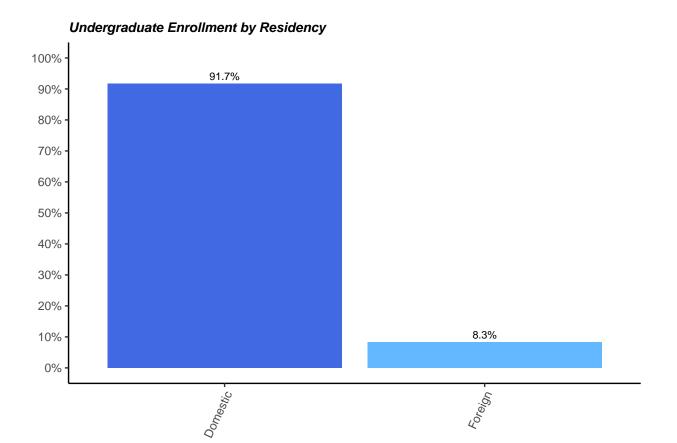
| Ethnicity | Percentage |
|------------------------|------------|
| Black or Afr. American | 5.4% |
| Hispanic | 15.5% |
| Other | 5.2% |
| Asian American | 15.5% |
| White | 54.6% |
| Unknown | 3.8% |



1.2.7 Undergraduate Enrollment by Residency

Table 35: Undergraduate Enrollment by Residency

| Nationality | Percentage |
|-------------|------------|
| Foreign | 91.7% |
| Domestic | 8.3% |



2 ENGINEERING MASTERS

2.1 ENGINEERING MASTERS DEGREE

2.1.1 Masters Degrees Awarded by Engineering Discipline

Table 36: Masters Degrees by discipline: 62,053

| Discipline Name | Degrees Awarded |
|--------------------------------------|-----------------|
| Computer Sci. (inside Eng.) Other | 12,349 7,870 |
| Mechanical | 7,863 |
| Electrical | 5,440 |
| Electrical/Computer | 4,857 |
| Civil | 4,702 |
| Computer Sci. (outside Engr.) | 4,649 |
| Industrial/Manufacturing/Systems | 4,398 |
| Biomedical | 2,538 |
| Engineering Management | 2,164 |
| Computer | 1,935 |
| Chemical | 1,798 |
| Aerospace Metallurgical and Matrls. | 1,501 1,295 |
| Engineering (General) | 1,295 |
| | |
| Civil/Environmental Envr. Eng | 858 561 |
| Nuclear | 229 |
| Petroleum | 221 |
| Engr. Science and Engr. Physics | 211 |
| Biological and Agricultural | 201 |
| Architectural | 127 |
| Mining | 48 |

Total does not include computer science (outside engineering).

Masters Degrees Awarded by Engineering Discipline

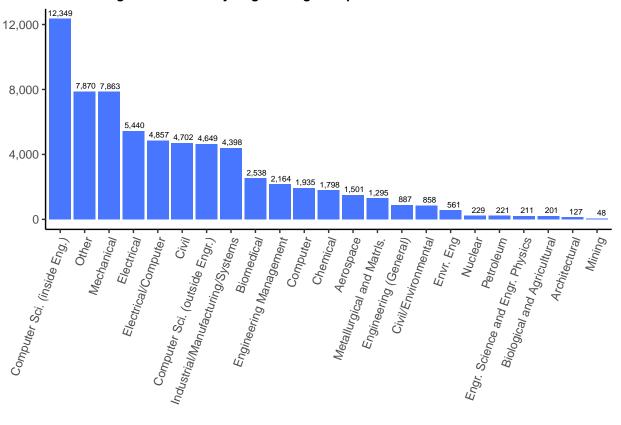


Table 37: Masters Degrees Awarded to Underrepresented Minorities by Engineering Discipline: 4,403

| Discipline Name | Degrees Awarded |
|----------------------------------|-----------------|
| Mechanical | 622 |
| Computer Sci. (inside Eng.) | 601 |
| Other | 591 |
| Civil | 494 |
| Industrial/Manufacturing/Systems | 308 |
| Electrical | 275 |
| Engineering Management | 259 |
| Electrical/Computer | 256 |
| Biomedical | 249 |
| Computer Sci. (outside Engr.) | 244 |
| Chemical | 116 |
| Engineering (General) | 115 |
| Aerospace | 106 |
| Civil/Environmental | 102 |
| Computer | 96 |
| Metallurgical and Matrls. | 96 |
| Envr. Eng | 46 |
| Nuclear | 21 |
| Biological and Agricultural | 14 |
| Petroleum | 14 |
| Engr. Science and Engr. Physics | 12 |
| Mining | 6 |
| Architectural | 4 |

Total does not include computer science (outside engineering).

2.1.3 Percentage of Masters Degrees Awarded to Underrepresented Minorities by Discipline

Table 38: Percentage of Masters Degrees Awarded to Underrepresented Minorities by Discipline 6.9 % of Total

| Discipline Name | Percent Women |
|---|---------------------------------------|
| Engineering (General) Mining Engineering Management Civil/Environmental Civil | 13% 12.5% 12% 11.9% 10.5% |
| Biomedical Nuclear Envr. Eng Mechanical Other | 9.8% 9.2% 8.2% 7.9% 7.5% |
| Metallurgical and Matrls. Aerospace Biological and Agricultural Industrial/Manufacturing/Systems Chemical | 7.4% 7.1% 7% 7% 6.5% |
| Petroleum Engr. Science and Engr. Physics Electrical/Computer Computer Sci. (outside Engr.) Electrical | 6.3% 5.7% 5.3% 5.2% 5.1% |
| Computer Computer Sci. (inside Eng.) Architectural | 5% 4.9% 3.1% |

2.1.4 Percentage of Masters Degrees Awarded to Women by Discipline

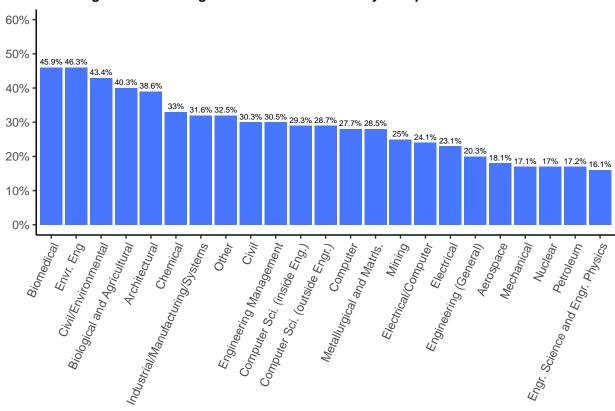
Table 39: Percentage of Masters Degrees Awarded to Women by Discipline 28.1 % of Total

| Discipline Name | Percent Women |
|----------------------------------|---------------|
| Envr. Eng | 46.3% |
| Biomedical | 45.9% |
| Civil/Environmental | 43.4% |
| Biological and Agricultural | 40.3% |
| Architectural | 38.6% |
| Chemical | 33% |
| Other | 32.5% |
| Industrial/Manufacturing/Systems | 31.6% |
| Engineering Management | 30.5% |
| Civil | 30.3% |

Table 39: Percentage of Masters Degrees Awarded to Women by Discipline 28.1 % of Total (continued)

| Discipline Name | Percent Women |
|---------------------------------|---------------|
| Computer Sci. (inside Eng.) | 29.3% |
| Computer Sci. (outside Engr.) | 28.7% |
| Metallurgical and Matrls. | 28.5% |
| Computer | 27.7% |
| Mining | 25% |
| Electrical/Computer | 24.1% |
| Electrical | 23.1% |
| Engineering (General) | 20.3% |
| Aerospace | 18.1% |
| Petroleum | 17.2% |
| Mechanical | 17.1% |
| Nuclear | 17% |
| Engr. Science and Engr. Physics | 16.1% |

Percentage of Masters Degrees Awarded to Women by Discipline

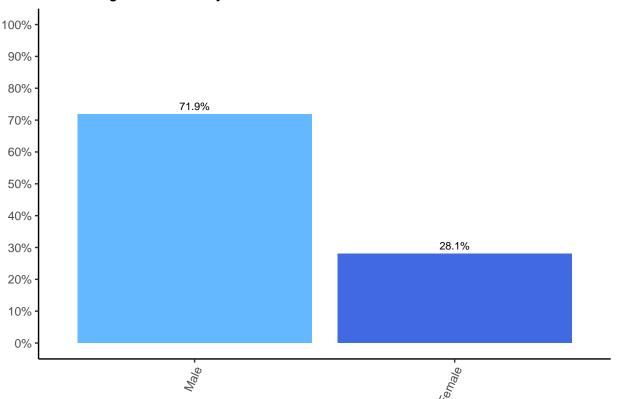


2.1.5 Masters Degrees Awarded by Gender

Table 40: Masters Degrees Awarded by Gender

| Gender | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Female | | | | | | | 25.40% | | | | |
| Male | 77.00% | 77.40% | 81.60% | 76.90% | 76.10% | 75.80% | 74.60% | 74.30% | 73.30% | 72.70% | 71.90% |



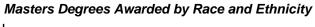


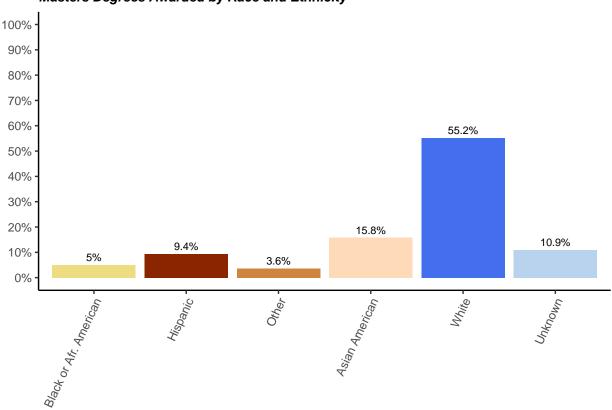
2.1.6 Masters Degrees Awarded by Race and Ethnicity

Table 41: Masters Degrees Awarded by Ethnicity

| Ethnicity | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 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% |
| Hispanic | 5.3% | 6.0% | 6.3% | 7.3% | 7.6% | 7.7% | 8.3% | 8.5% | 8.8% | 9.2% | 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% |
| Asian American | 15.1% | 14.9% | 15.5% | 14.5% | 15.0% | 14.5% | 15.1% | 15.1% | 15.8% | 16.3% | 15.8% |
| White | 57.5% | 60.9% | 58.2% | 59.7% | 59.5% | 60.2% | 59.5% | 60.1% | 58.2% | 55.4% | 55.2% |
| Unknown | 0% | 11.7% | 13.6% | 11.8% | 11.0% | 10.6% | 9.4% | 8.4% | 8.6% | 10.4% | 10.9% |

^{*}Data on ethnicity does not include foreign nationals. American Indian/Alaska Native (0.2%), Native Hawaiian/Other Pacfic Islander(0.2%) and Multiracial (3.3%) are combined under Other.



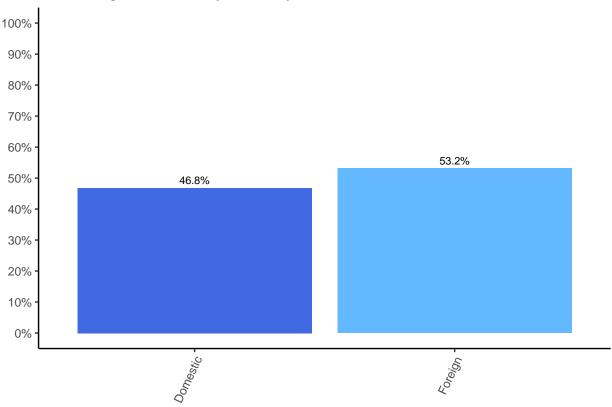


2.1.7 Masters Degrees Awarded by Residency

Table 42: Masters Degrees Awarded by Residency

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

Masters Degrees Awarded by Residency



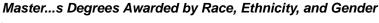
2.1.8 Masters Degrees Awarded by Race, Ethnicity, and Gender

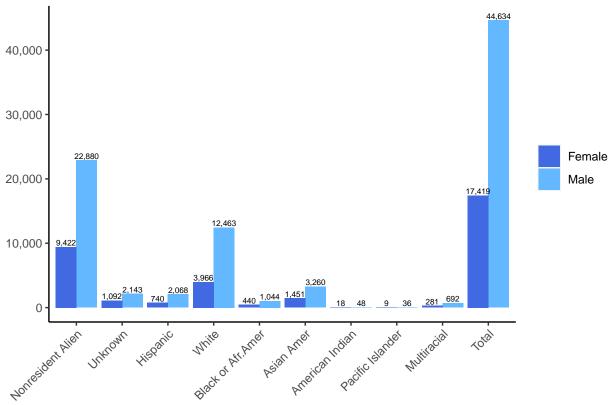
Table 43: Masters Degrees Awarded by Race, Ethnicity, and Gender 62,053*

| Ethnicity | Degrees Awarded |
|--|-----------------|
| Nonresident Alien Male | 22,880 |
| Nonresident Alien Female | 9,422 |
| Unknown Male | 2,143 |
| Unknown Female | 1,092 |
| Hispanic Male | 2,068 |
| Hispanic Female | 740 |
| White Male | 12,463 |
| White Female | 3,966 |
| Black or Afr. American Male | 1,044 |
| Black or Afr. American Female | 440 |
| Asian American Male | 3,260 |
| Asian American Female | 1,451 |
| American Indian Male | 48 |
| American Indian Female | 18 |
| Native Hawaiian/Other Pacfic Islander Male | 36 |
| Native Hawaiian/Other Pacfic Islander Female | 9 |
| Multiracial Male | 692 |
| Multiracial Female | 281 |
| Total Male | 44,634 |
| Total Female | 17,419 |

^{*} Total degree includes 0 total Non binary graduates and 0 total Other Gender graduates.

^{*} Includes 44 male and 13 female graduates from Puerto Rico.





2.1.9 Top 50 Institutions Awarding Engineering Masters Degrees

Table 44: Top 50 Institutions Awarding Engineering Masters Degrees

| No | Institutions | Degrees Awarded |
|----|---|-----------------|
| 1 | University of Southern California | 2,602 |
| 2 | Northeastern University | 2,337 |
| 3 | Carnegie Mellon University | 1,783 |
| 4 | Fu Foundation School of Engineering and Applied Science - Columbia University | 1,716 |
| 5 | Georgia Institute of Technology | 1,469 |
| 6 | Arizona State University | 1,308 |
| 7 | Cornell University | 1,189 |
| 8 | University of Michigan | 1,150 |
| 9 | Stanford University | 1,143 |
| 10 | University of Illinois at Urbana-Champaign | 1,053 |
| 11 | North Carolina State University | 1,017 |
| 12 | University of California, San Diego | 1,011 |
| 13 | The University of Texas at Arlington | 928 |
| 14 | NYU Tandon School of Engineering | 926 |
| 15 | University of California, Berkeley | 910 |

Table 44: Top 50 Institutions Awarding Engineering Masters Degr *(continued)*

| No | Institutions | Degrees Awarded |
|----|---|-----------------|
| 16 | University at Buffalo, SUNY | 887 |
| 17 | San Jose State University | 859 |
| 18 | Texas A&M University | 854 |
| 19 | The George Washington University | 835 |
| 20 | University of Washington in Seattle | 829 |
| 21 | New Jersey Institute of Technology | 826 |
| 22 | The University of Texas at Dallas | 801 |
| 23 | Massachusetts Institute of Technology | 768 |
| 24 | University of Florida | 733 |
| 25 | Northwestern University | 726 |
| 26 | University of Pennsylvania | 706 |
| 27 | University of Colorado Boulder | 657 |
| 28 | Purdue University | 632 |
| 29 | The Johns Hopkins University | 622 |
| 30 | George Mason University | 594 |
| 31 | University of California, Los Angeles | 582 |
| 32 | Illinois Institute of Technology | 519 |
| 33 | University of Maryland, College Park | 514 |
| 34 | University of California, Irvine | 508 |
| 35 | Stony Brook University | 480 |
| 36 | Duke University | 475 |
| 37 | Washington University in St. Louis | 473 |
| 38 | University of Wisconsin-Madison | 469 |
| 39 | Syracuse University | 463 |
| 40 | Boston University | 452 |
| 40 | University of Michigan-Dearborn | 452 |
| 42 | The University of Texas at Austin | 450 |
| 43 | University of Central Florida | 442 |
| 44 | Virginia Polytechnic Institute and State University | 440 |
| 45 | Rochester Institute of Technology | 434 |
| 46 | Clemson University | 429 |
| 47 | University of Cincinnati | 420 |
| 48 | The Ohio State University | 411 |
| 49 | The State University of New York at Binghamton | 410 |
| 50 | University of Maryland, Baltimore County | 384 |
| | 9 Institutions included | 1 |

^{* 429} Institutions included

2.1.10 Top 20 Institutions by Total Masters Degrees awarded to Underrepresented Minorities

Table 45: Top 20 Institutions by Total Masters Degrees awarded to Underrepresented Minorities

| No | Institutions | Degrees Awarded |
|----|--|-----------------|
| 1 | New Jersey Institute of Technology | 181 |
| 2 | Florida International University | 155 |
| 3 | The University of Texas at El Paso | 143 |
| 4 | The George Washington University | 99 |
| 5 | University of Central Florida | 97 |
| 6 | University of Southern California | 88 |
| 7 | Stanford University | 87 |
| 8 | Arizona State University | 71 |
| 8 | Georgia Institute of Technology | 71 |
| 10 | Massachusetts Institute of Technology | 70 |
| 11 | Carnegie Mellon University | 67 |
| 11 | Cornell University | 67 |
| 13 | University of Florida | 64 |
| 14 | George Mason University | 60 |
| 14 | University of Washington in Seattle | 60 |
| 16 | Southern Methodist University | 57 |
| 16 | University of Puerto Rico, Mayaguez Campus | 57 |
| 18 | University of Maryland, Baltimore County | 55 |
| 19 | The University of Texas at Arlington | 54 |
| 20 | Texas A&M University | 53 |

⁴²⁹ Institutions included

2.1.11 Top 50 Institutions by Percentage of Masters Degrees awarded to Underrepresented Minorities

Table 46: Top 50 Institutions by Percentage of Masters Degrees awarded to Underrepresented Minorities

| No | Institutions | Percent Underrepresented Minorities |
|----|--|-------------------------------------|
| 1 | Hampton University | 100% |
| 1 | University of Puerto Rico, Mayaguez Campus | 100% |
| 3 | Alabama A & M University | 86.7% |
| 4 | The University of Texas Rio Grande Valley | 81.4% |
| 5 | The University of Texas at El Paso | 66.8% |
| 6 | North Carolina A&T State University | 56.5% |
| 7 | Virginia State University | 52.9% |
| 8 | Prairie View A & M University | 51.5% |

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

| No. | Institutions | Percent Underrepresented Minorities |
|-----|---|-------------------------------------|
| No | | 50% |
| 9 | Morgan State University | |
| 9 | Tuskegee University | 50% |
| 9 | West Texas A & M University | 50% |
| 12 | Florida International University | 44.3% |
| 13 | Thomas Jefferson University | 42.9% |
| 14 | Christian Brothers University | 36.4% |
| 15 | New Mexico State University | 35.3% |
| 16 | East Carolina University | 33.3% |
| 16 | Florida Polytechnic University | 33.3% |
| 16 | Howard University | 33.3% |
| 16 | University of the District of Columbia | 33.3% |
| 16 | Wentworth Institute of Technology | 33.3% |
| 21 | St. Mary's University | 31.8% |
| 22 | Norwich University | 31% |
| 23 | University of Nevada, Las Vegas | 30.6% |
| 24 | Florida Atlantic University | 29.3% |
| 25 | Tennessee State University | 28% |
| 26 | California State University, Los Angeles | 27.1% |
| 27 | Kennesaw State University | 27% |
| 28 | Loyola Marymount University | 26.5% |
| 29 | The University of Texas at Tyler | 26.3% |
| 30 | University of Tennessee, Chattanooga | 26.1% |
| 31 | The University of New Mexico | 25.8% |
| 32 | Jackson State University | 25% |
| 32 | New Mexico Institute of Mining and Technology | 25% |
| 34 | University of Hartford | 22.5% |
| 35 | California State University, Long Beach | 22.2% |
| 35 | Princeton University | 22.2% |
| 37 | University of Central Florida | 21.9% |
| 38 | New Jersey Institute of Technology | 21.9% |
| 39 | Idaho State University | 21.4% |
| 40 | The University of Texas at San Antonio | 21.2% |
| 41 | Arkansas State University | 20% |
| 41 | Florida Gulf Coast University | 20% |
| 41 | University of Hawaii at Manoa | 20% |
| 41 | Western Kentucky University | 20% |
| 45 | University of the Pacific | 19.6% |
| 46 | Georgia Southern University | 19.2% |
| 47 | Manhattan College | 19% |
| 48 | University of Miami | 19% |
| 49 | University of St. Thomas | 18.3% |
| 50 | Oregon Institute of Technology | 18.2% |
| | 9 Institutions included | |

⁴²⁹ Institutions included

2.1.12 Top 20 Institutions Awarding Highest Percentage of Masters Degrees to Women

Table 47: Top 20 Highest Percentage of Masters Degrees to Women

| No | Institutions | Percent Women |
|----|---|---------------|
| 1 | Thomas Jefferson University | 71.4% |
| 2 | University of South Dakota | 66.7% |
| 2 | Wentworth Institute of Technology | 66.7% |
| 4 | Tulane University | 54.8% |
| 5 | University of Washington-Tacoma | 52.2% |
| 6 | Fairleigh Dickinson University-Metropolitan Campus | 50% |
| 6 | Frostburg State University | 50% |
| 6 | University of Southern Mississippi | 50% |
| 9 | Virginia State University | 49% |
| 10 | Princeton University | 48.1% |
| 11 | Alabama A & M University | 46.7% |
| 12 | State University of New York at New Paltz | 46.2% |
| 13 | Fairfield University | 46% |
| 14 | California State University-East Bay | 45.7% |
| 15 | North Carolina A&T State University | 45.2% |
| 16 | Texas State University | 42.9% |
| 17 | University of Houston-Clear Lake | 40.5% |
| 18 | The Catholic University of America | 40.3% |
| 19 | Bucknell University | 40% |
| 20 | Fu Foundation School of Engineering and Applied Science - Columbia University | 39.6% |

^{* 429} included

2.1.13 Top 20 Institutions by Total Masters Degrees awarded in Engineering (General)

Table 48: Top 20 Institutions by Total Masters Degrees awarded in Engineering (General)

| No | Institutions | Degrees Awarded |
|----|--------------------------------------|-----------------|
| 1 | Arizona State University | 96 |
| 2 | Lamar University | 73 |
| 3 | University of Arkansas | 61 |
| 4 | University at Buffalo, SUNY | 60 |
| 5 | University of Wisconsin, Platteville | 59 |
| 6 | University of the Pacific | 46 |
| 7 | Oklahoma Christian University | 39 |
| 8 | University of Massachusetts Lowell | 37 |
| 9 | San Francisco State University | 29 |
| 10 | Saint Louis University | 27 |
| 11 | Eastern Michigan University | 24 |
| 12 | University of Wisconsin - Stout | 23 |
| 13 | California State University-Fresno | 22 |
| 14 | Texas State University | 21 |
| 15 | Prairie View A & M University | 20 |
| 16 | Marshall University | 19 |
| 17 | Case Western Reserve University | 18 |
| 17 | Purdue University Fort Wayne | 18 |
| 19 | North Carolina State University | 16 |
| 20 | Georgia Southern University | 15 |

^{* 123} Institutions included

2.2 ENGINEERING MASTERS ENROLLMENT

2.2.1 Masters Enrollment by Race, Ethnicity, and Gender

Table 49: Masters Enrollment Awarded by Race, Ethnicity, and Gender 71,320*

| Ethnicity | Enrollments |
|--|-------------|
| Nonresident Alien Male | 27,384 |
| Nonresident Alien Female | 11,764 |
| Unknown Male | 1,651 |
| Unknown Female | 782 |
| Hispanic Male | 2,531 |
| Hispanic Female | 927 |
| White Male | 13,093 |
| White Female | 4,513 |
| Black or Afr. American Male | 1,016 |
| Black or Afr. American Female | 536 |
| Asian American Male | 3,950 |
| Asian American Female | 1,748 |
| American Indian Male | 55 |
| American Indian Female | 39 |
| Native Hawaiian/Other Pacfic Islander Male | 37 |
| Native Hawaiian/Other Pacfic Islander Female | 17 |
| Multiracial Male | 870 |
| Multiracial Female | 407 |
| Total Male | 50,587 |
| Total Female | 20,733 |

^{*} Total Enrollment includes is for full time students

^{*} Includes 90 male and 39 female.

Masters Enrollment by Race, Ethnicity, and Gender 50,000 40,000 27,384 20,733 Female Male 11,764 11,764 11,764 11,764 11,764 11,764 11,765

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 | 5,487 |
| 2 | University of Illinois at Urbana-Champaign | 4,814 |
| 3 | Arizona State University | 4,374 |
| 4 | Fu Foundation School of Engineering and Applied Science - Columbia University | 4,079 |
| 5 | Georgia Institute of Technology | 3,946 |
| 6 | Northeastern University | 3,916 |
| 7 | University of Michigan | 3,436 |
| 8 | Texas A&M University | 3,326 |
| 9 | Stanford University | 3,307 |
| 10 | Massachusetts Institute of Technology | 3,168 |
| 11 | University of Pennsylvania | 3,063 |
| 12 | NYU Tandon School of Engineering | 3,061 |
| 13 | Purdue University | 2,926 |
| 14 | University of California, San Diego | 2,879 |
| 15 | North Carolina State University | 2,874 |
| 16 | University of Washington in Seattle | 2,864 |
| 17 | University of Arizona | 2,687 |
| 18 | Cornell University | 2,568 |
| 19 | University of Florida | 2,455 |
| 20 | Carnegie Mellon University | 2,345 |
| 21 | The Pennsylvania State University | 2,209 |
| 22 | Northwestern University | 2,205 |
| 23 | University of California, Los Angeles | 2,186 |
| 24 | Virginia Polytechnic Institute and State University | 2,168 |
| 25 | The University of Texas at Arlington | 2,143 |
| 26 | University of California, Berkeley | 2,117 |
| 27 | University of Colorado Boulder | 2,070 |
| 28 | The University of Texas at Austin | 2,002 |
| 29 | University at Buffalo, SUNY | 1,953 |
| 30 | The Johns Hopkins University | 1,914 |
| 31 | University of Central Florida | 1,845 |
| 32 | The University of Texas at Dallas | 1,806 |
| 33 | George Mason University | 1,774 |
| 34 | University of Minnesota -Twin Cities | 1,711 |
| 35 | The Ohio State University | 1,702 |
| 36 | San Jose State University | 1,663 |
| 37 | The George Washington University | 1,506 |
| 38 | University of Maryland, College Park | 1,489 |
| 39 | University of Wisconsin-Madison | 1,463 |
| 40 | Washington University in St. Louis | 1,409 |
| 41 | Stony Brook University | 1,401 |
| 42 | Colorado School of Mines | 1,335 |
| 43 | Clemson University | 1,332 |
| 44 | University of California, Davis | 1,299 |
| 45 | University of California, Davis | 1,248 |
| 46 | University of Maryland, Baltimore County | 1,240 |
| 47 | Oregon State University | 1,218 |
| | | |

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

| No | Institutions | Enrollment |
|----|-----------------------------------|------------|
| 48 | University of Illinois at Chicago | 1,175 |
| 49 | University of Michigan-Dearborn | 1,152 |
| 50 | University of Cincinnati | 1,139 |

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

2.2.3 Masters Enrollment by Engineering Discipline:(Full time and Part time)

Table 51: Masters Enrollment by Engineering Discipline:(Full time and Part time)

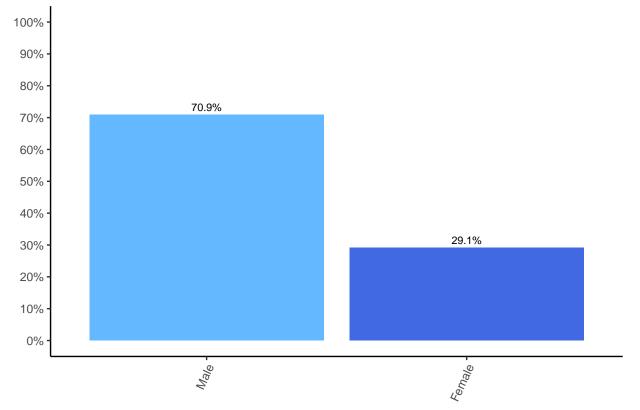
| Discipline Name | Full Time | Part Time |
|----------------------------------|-----------|-----------|
| Aerospace | 2,197 | 1,160 |
| Architectural | 151 | 17 |
| Biological and Agricultural | 334 | 85 |
| Biomedical | 3,398 | 924 |
| Chemical | 1,944 | 617 |
| Civil | 4,818 | 3,168 |
| Civil/Environmental | 1,162 | 421 |
| Computer | 2,529 | 1,068 |
| Computer Sci. (inside Eng.) | 15,042 | 9,930 |
| Electrical | 5,441 | 3,787 |
| Electrical/Computer | 5,500 | 2,225 |
| Engineering (General) | 663 | 1,090 |
| Engineering Management | 2,215 | 3,116 |
| Engr. Science and Engr. Physics | 151 | 109 |
| Envr. Eng | 709 | 385 |
| Industrial/Manufacturing/Systems | 4,072 | 4,219 |
| Mechanical | 9,096 | 4,878 |
| Metallurgical and Matrls. | 1,342 | 577 |
| Mining | 107 | 69 |
| Nuclear | 307 | 102 |
| Other | 9,872 | 5,918 |
| Petroleum | 270 | 122 |
| | | |

2.2.4 Masters Enrollment by Gender

Table 52: Masters Enrollment by Gender

| Gender | Percentage |
|--------|------------|
| Female | 29.5% |
| Male | 70.5% |

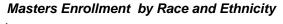


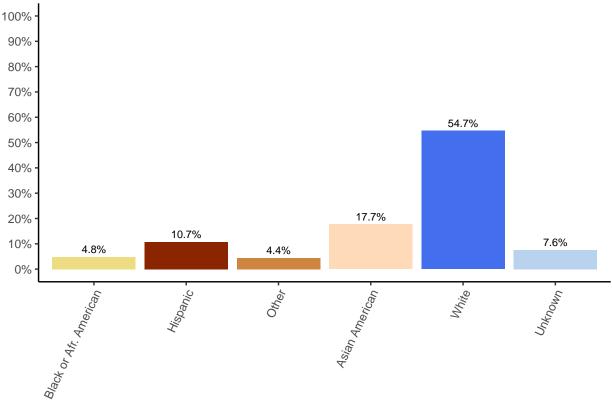


2.2.5 Masters Enrollment by Race and Ethnicity

Table 53: Masters Enrollment by Race and Ethnicity*

| Ethnicity | Percentage |
|------------------------|------------|
| Black or Afr. American | 5.1% |
| Hispanic | 10.8% |
| Other | 5.6% |
| Asian American | 17.6% |
| White | 53.1% |
| Unknown | 7.7% |

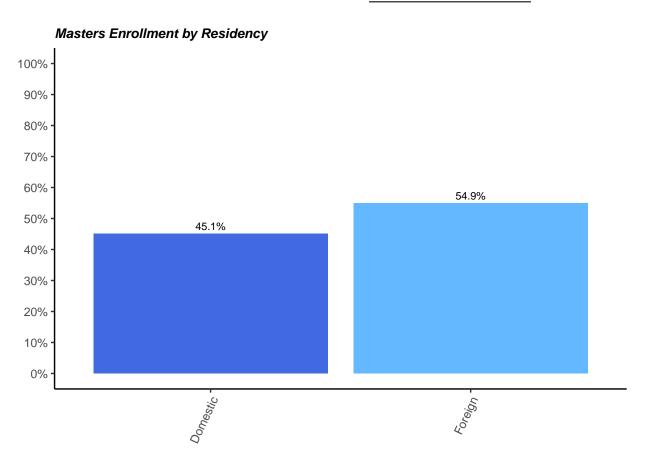




2.2.6 Masters Enrollment by Residency

Table 54: Masters Enrollment by Residency

| Nationality | Percentage |
|-------------|------------|
| Foreign | 54% |
| Domestic | 46% |



3 ENGINEERING DOCTORAL

3.1 ENGINEERING DOCTORAL DEGREES

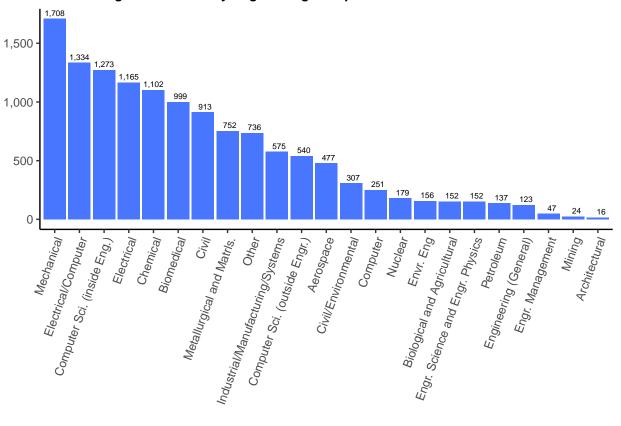
3.1.1 Doctoral Degrees Awarded by Engineering Discipline

Table 55: Doctoral Degrees by discipline: 12,578

| Discipline Name | Degrees Awarded |
|---|-----------------|
| Mechanical | 1,708 |
| Electrical/Computer Computer Sci. (inside Eng.) | 1,334 1,273 |
| Electrical | 1,165 |
| Chemical | 1,102 |
| Biomedical | 999 |
| Civil | 913 |
| Metallurgical and Matrls. | 752 |
| Other | 736 |
| Industrial/Manufacturing/Systems | 575 |
| Computer Sci. (outside Engr.) | 540 |
| Aerospace | 477 |
| Civil/Environmental | 307 |
| Computer Nuclear | 251 179 |
| . 133.33. | • |
| Envr. Eng | 156 |
| Biological and Agricultural Engr. Science and Engr. Physics | 152 152 |
| Petroleum | 137 |
| Engineering (General) | 123 |
| Engr. Management | 47 |
| Mining | 24 |
| Architectural | 16 |

Total does not include computer science (outside engineering).

Doctoral Degrees Awarded by Engineering Discipline



3.1.2 Total Doctoral Degrees Awarded to Underrepresented Minorities by Engineering Discipline

Table 56: Doctoral Degrees Awarded to Underrepresented Minorities by Engineering Discipline: 567

| Discipline Name | Degrees Awarded |
|----------------------------------|-----------------|
| Biomedical | 87 |
| Mechanical | 60 |
| Chemical | 50 |
| Electrical/Computer | 47 |
| Other | 47 |
| Metallurgical and Matrls. | 45 |
| Computer Sci. (inside Eng.) | 40 |
| Electrical | 37 |
| Industrial/Manufacturing/Systems | 35 |
| Civil | 34 |
| Aerospace | 19 |
| Envr. Eng | 16 |
| Civil/Environmental | 10 |
| Computer Sci. (outside Engr.) | 9 |
| Nuclear | 9 |
| Engineering (General) | 6 |
| Biological and Agricultural | 5 |
| Computer | 5 |
| Engr. Management | 5 |
| Engr. Science and Engr. Physics | 5 |
| Petroleum | 4 |
| Architectural | 1 |
| Mining | 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 4.4 % of Total

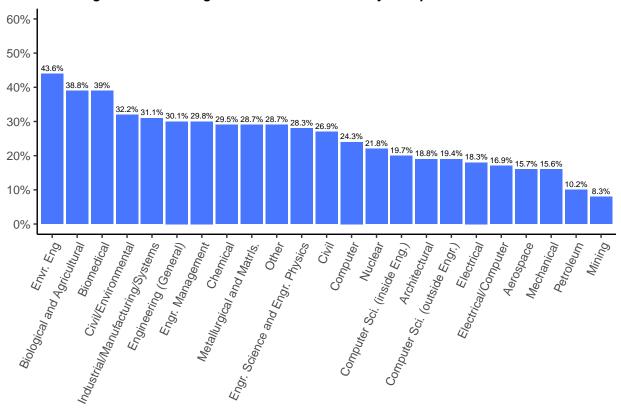
| Discipline Name | Percent Women |
|---|--|
| Engr. Management Envr. Eng Biomedical Other Architectural | 10.6% 10.3% 8.7% 6.4% 6.2% |
| Industrial/Manufacturing/Systems Metallurgical and Matrls. Nuclear Engineering (General) Chemical | 6.1% 6% 5% 4.9% 4.5% |
| Aerospace Civil Electrical/Computer Mechanical Biological and Agricultural | 4% 3.7% 3.5% 3.5% 3.3% |
| Civil/Environmental Engr. Science and Engr. Physics Electrical Computer Sci. (inside Eng.) Petroleum | 3.3% 3.3% 3.2% 3.1% 2.9% |
| Computer Computer Sci. (outside Engr.) Mining | 2% 1.7% 0% |

3.1.4 Percentage of Doctoral Degrees Awarded to Women by Discipline

Table 58: Percentage of Doctoral Degrees Awarded to Women by Discipline 23.9 % of Total

| Discipline Name | Percent Women |
|----------------------------------|---------------|
| Envr. Eng | 43.6% |
| Biomedical | 39% |
| Biological and Agricultural | 38.8% |
| Civil/Environmental | 32.2% |
| Industrial/Manufacturing/Systems | 31.1% |
| Engineering (General) | 30.1% |
| Engr. Management | 29.8% |
| Chemical | 29.5% |
| Metallurgical and Matrls. | 28.7% |
| Other | 28.7% |
| Engr. Science and Engr. Physics | 28.3% |
| Civil | 26.9% |
| Computer | 24.3% |
| Nuclear | 21.8% |
| Computer Sci. (inside Eng.) | 19.7% |
| Computer Sci. (outside Engr.) | 19.4% |
| Architectural | 18.8% |
| Electrical | 18.3% |
| Electrical/Computer | 16.9% |
| Aerospace | 15.7% |
| Mechanical | 15.6% |
| Petroleum | 10.2% |
| Mining | 8.3% |

Percentage of Doctoral Degrees Awarded to Women by Discipline



3.1.5 Doctoral Degrees Awarded by Gender

Table 59: Doctoral Degrees Awarded by Gender

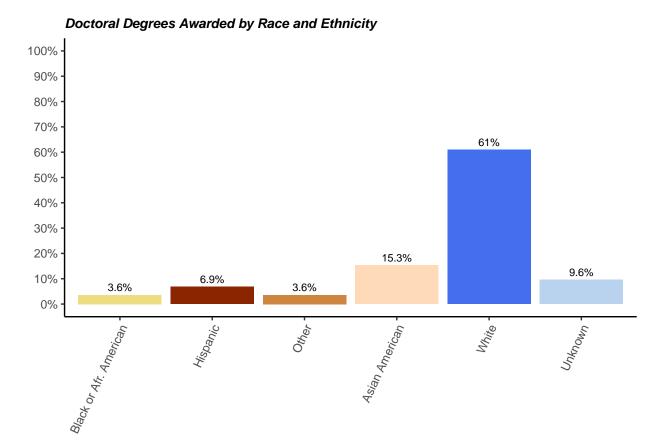
| Gender | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Female | 21.20% | 22.90% | 21.80% | 22.20% | 22.40% | 22.20% | 23.30% | 23.50% | 23.60% | 24.10% | 76.00% |
| Male | 78.80% | 77.10% | 78.20% | 77.80% | 77.60% | 77.80% | 76.70% | 76.50% | 76.40% | 75.90% | 24.00% |

Doctoral Degrees Awarded by Gender 100% 90% 80% 76.1% 70% 60% 50% 40% 30% 23.9% 23.9%

3.1.6 Doctoral Degrees Awarded by Race and Ethnicity

Table 60: Doctoral Degrees Awarded by Ethnicity

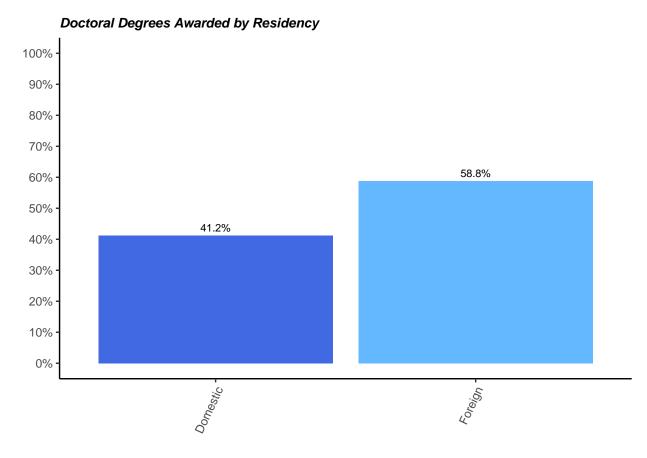
| Ethnicity | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Black or Afr. American | 4.4% | 3.5% | 4.1% | 4.1% | 3.6% | 3.2% | 4.4% | 3.8% | 4.2% | 3.9% | 3.6% |
| Hispanic | 5.2% | 4.2% | 4.1% | 4.7% | 5.1% | 6.1% | 5.7% | 6.3% | 6.0% | 6.1% | 6.9% |
| Other | 1.0% | 1.6% | 1.7% | 1.7% | 1.6% | 2.2% | 3.1% | 2.9% | 2.9% | 2.8% | 3.6% |
| Asian American | 14.0% | 15.1% | 14.1% | 13.5% | 10.4% | 14.1% | 14.9% | 14.8% | 13.9% | 15.3% | 15.4% |
| White | 65.7% | 60.3% | 61.1% | 61.8% | 65.1% | 62.9% | 62.0% | 62.2% | 62.0% | 61.1% | 60.8% |
| Unknown | 9.7% | 15.3% | 14.9% | 14.2% | 14.2% | 11.5% | 9.9% | 10.0% | 11.1% | 10.8% | 9.7% |



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 |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Foreign | 54.2% | 54.2% | 53.3% | 55.1% | 54.8% | 54.7% | 54.8% | 55.7% | 56.3% | 56.5% | 58.7% |
| Domestic | 45.8% | 45.8% | 46.7% | 44.9% | 45.2% | 45.3% | 45.2% | 44.3% | 43.7% | 43.5% | 41.3% |



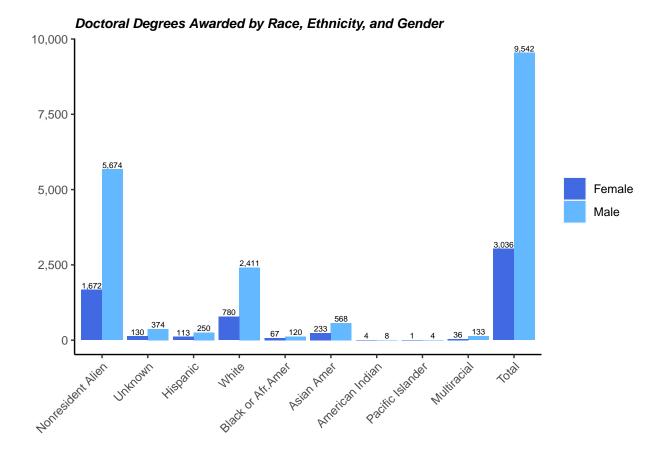
3.1.8 Doctoral Degrees Awarded by Race, Ethnicity, and Gender

Table 62: Doctoral Degrees Awarded by Race, Ethnicity, and Gender 12,578*

| | _ |
|--|---------|
| Ethnicity | Degrees |
| Nonresident Alien Male | 5,674 |
| Nonresident Alien Female | 1,672 |
| Unknown Male | 374 |
| Unknown Female | 130 |
| Hispanic Male | 250 |
| Hispanic Female | 113 |
| White Male | 2,411 |
| White Female | 780 |
| Black or Afr. American Male | 120 |
| Black or Afr. American Female | 67 |
| Asian American Male | 568 |
| Asian American Female | 233 |
| American Indian Male | 8 |
| American Indian Female | 4 |
| Native Hawaiian/Other Pacfic Islander Male | 4 |
| Native Hawaiian/Other Pacfic Islander Female | 1 |
| Multiracial Male | 133 |
| Multiracial Female | 36 |
| Total Male | 9,542 |
| Total Female | 3,036 |

^{*} Total degree includes 0 total Non binary graduates and 0 total Other Gender graduates.

^{*} Includes 7 male and2 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 | 397 |
| 2 | Purdue University | 380 |
| 3 | University of Illinois at Urbana-Champaign | 343 |
| 4 | Stanford University | 326 |
| 5 | University of Michigan | 316 |
| 6 | Massachusetts Institute of Technology | 288 |
| 7 | Texas A&M University | 283 |
| 8 | Virginia Polytechnic Institute and State University | 243 |
| 9 | University of California, Berkeley | 238 |
| 10 | The University of Texas at Austin | 236 |
| 11 | North Carolina State University | 223 |
| 12 | University of California, San Diego | 220 |
| 13 | Carnegie Mellon University | 211 |
| 14 | The Pennsylvania State University | 198 |
| 15 | Cornell University | 178 |
| 16 | The Ohio State University | 177 |
| 17 | Arizona State University | 174 |
| 18 | University of Washington in Seattle | 168 |
| 19 | University of Maryland, College Park | 163 |
| 19 | University of Southern California | 163 |
| 21 | University of California, Los Angeles | 161 |
| 22 | Missouri University of Science and Technology | 153 |
| 23 | Iowa State University | 152 |
| 24 | Northwestern University | 148 |
| 25 | University of Florida | 147 |
| 26 | University of Minnesota -Twin Cities | 145 |
| 27 | University of Idaho | 143 |
| 28 | University of Wisconsin-Madison | 140 |
| 29 | University of Central Florida | 129 |
| 30 | The Johns Hopkins University | 121 |
| 31 | Colorado School of Mines | 120 |
| 32 | University of Colorado Boulder | 116 |
| 33 | University of California, Irvine | 115 |
| 34 | University of California, Davis | 111 |
| 35 | The University of Texas at Arlington | 108 |
| 36 | Stony Brook University | 107 |
| 36 | The University of Texas at Dallas | 107 |
| 38 | Washington State University | 104 |
| 39 | Boston University | 98 |
| 40 | Oregon State University | 93 |
| 41 | University at Buffalo, SUNY | 92 |
| 41 | University of California, Santa Barbara | 92 |

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

| No | Institutions | Degrees Awarded |
|----|--|-----------------|
| 43 | University of Illinois at Chicago | 90 |
| 43 | William Marsh Rice University | 90 |
| 45 | The George Washington University | 89 |
| 45 | University of Massachusetts Amherst | 89 |
| 45 | University of Tennessee, Knoxville | 89 |
| 48 | Clemson University | 87 |
| 49 | Rutgers, The State University of New Jersey, School of Engineering | 85 |
| 49 | University of Arizona | 85 |

^{* 429} Institutions reported.Includes both part time and full time

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

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

| No | Institutions | Degrees Awarded |
|----|---|-----------------|
| 1 | University of Michigan | 27 |
| 2 | Georgia Institute of Technology | 21 |
| 3 | The University of Texas at El Paso | 18 |
| 4 | University of California, Berkeley | 16 |
| 4 | Virginia Polytechnic Institute and State University | 16 |
| 6 | Stanford University | 15 |
| 6 | University of Florida | 15 |
| 8 | Arizona State University | 14 |
| 8 | Purdue University | 14 |
| 10 | University of California, Davis | 11 |
| 11 | Northwestern University | 10 |
| 11 | Texas A&M University | 10 |
| 11 | University of Arizona | 10 |
| 14 | Massachusetts Institute of Technology | 9 |
| 14 | University of California, San Diego | 9 |
| 14 | University of Puerto Rico, Mayaguez Campus | 9 |
| 17 | The Johns Hopkins University | 8 |
| 17 | The University of Texas at Dallas | 8 |
| 17 | University of California, Riverside | 8 |
| 17 | University of Colorado Boulder | 8 |

⁴²⁹ 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 Puerto Rico, Mayaguez Campus | 100% |
| 2 | University of Tennessee, Chattanooga | 50% |
| 3 | The University of Texas at El Paso | 42.9% |
| 4 | Rowan University | 40% |
| 5 | Tennessee State University | 33.3% |
| 6 | Prairie View A & M University | 28.6% |
| 7 | Morgan State University | 23.1% |
| 8 | Marquette University | 20% |
| 8 | University of Bridgeport | 20% |
| 10 | Temple University | 16.7% |
| 11 | Boise State University | 15.4% |
| 11 | University of Rhode Island | 15.4% |
| 13 | Old Dominion University | 14.7% |
| 14 | Texas State University | 14.3% |
| 14 | University of North Dakota | 14.3% |
| 16 | North Carolina A&T State University | 13.8% |
| 17 | Florida Institute of Technology | 12.8% |
| 18 | Baylor University | 12.5% |
| 18 | California State University, Long Beach | 12.5% |
| 18 | Louisiana Tech University | 12.5% |
| 21 | University of Arizona | 11.8% |
| 22 | New Mexico Institute of Mining and Technology | 11.1% |
| 22 | Portland State University | 11.1% |
| 22 | University of Maine | 11.1% |
| 25 | University of Miami | 10.7% |
| 26 | University of California, Merced | 10.5% |
| 27 | University of Florida | 10.2% |
| 28 | Jackson State University | 10% |
| 29 | University of California, Davis | 9.9% |

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

| Institutions | Percent Underrepresented Minorities |
|--|--|
| University of California, Riverside | 9.9% |
| FAMU-FSU College of Engineering | 9.8% |
| Mississippi State University | 9.8% |
| Florida International University | 9.3% |
| Ohio University | 9.1% |
| Brown University | 8.7% |
| University of Michigan | 8.5% |
| University of Virginia | 8.5% |
| Arizona State University | 8% |
| The George Washington University | 7.9% |
| Texas A&M University - Kingsville | 7.7% |
| University of Massachusetts Dartmouth | 7.7% |
| University of Nevada, Las Vegas | 7.7% |
| The University of Texas at Dallas | 7.5% |
| Clarkson University | 7.1% |
| Embry Riddle Aeronautical University-Daytona Beach | 7.1% |
| The University of Texas at San Antonio | 6.9% |
| University of Colorado Boulder | 6.9% |
| Northwestern University | 6.8% |
| University of California, Berkeley | 6.7% |
| Southern Illinois University Carbondale | 6.7% |
| | University of California, Riverside FAMU-FSU College of Engineering Mississippi State University Florida International University Ohio University Brown University University of Michigan University of Virginia Arizona State University The George Washington University Texas A&M University - Kingsville University of Massachusetts Dartmouth University of Nevada, Las Vegas The University of Texas at Dallas Clarkson University Embry Riddle Aeronautical University-Daytona Beach The University of Texas at San Antonio University of Colorado Boulder Northwestern University University of California, Berkeley |

^{* 429} 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 | Alfred University | 100% |
| 1 | Alfred University, NY State College of Ceramics | 100% |
| 1 | Central Michigan University | 100% |
| 1 | Lawrence Technological University | 100% |
| 5 | Rowan University | 80% |
| 6 | University of Massachusetts Dartmouth | 61.5% |
| 7 | Idaho State University | 60% |
| 8 | The Catholic University of America | 58.3% |
| 9 | SUNY Polytechnic Institute | 50% |
| 9 | University of Colorado Denver | 50% |
| 11 | South Dakota School of Mines and Technology | 45.5% |
| 11 | University of New Hampshire | 45.5% |
| 13 | Texas State University | 42.9% |
| 13 | University of Massachusetts-Boston | 42.9% |
| 15 | Jackson State University | 40% |
| 15 | Southern Illinois University Carbondale | 40% |
| 17 | Boston University | 38.8% |
| 18 | New Jersey Institute of Technology | 37.8% |
| 19 | Louisiana Tech University | 37.5% |
| 19 | South Dakota State University | 37.5% |

⁴²⁹ 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 | 277 |
| 2 | University of Illinois at Urbana-Champaign | 220 |
| 3 | Georgia Institute of Technology | 217 |
| 4 | Texas A&M University | 207 |
| 5 | University of Michigan | 159 |
| 6 | The University of Texas at Austin | 153 |
| 7 | Massachusetts Institute of Technology | 149 |
| 8 | North Carolina State University | 142 |
| 8 | Virginia Polytechnic Institute and State University | 142 |
| 10 | Carnegie Mellon University | 137 |
| 10 | Stanford University | 137 |
| 12 | The Pennsylvania State University | 136 |
| 13 | University of California, San Diego | 122 |
| 13 | University of Southern California | 122 |
| 15 | The Ohio State University | 121 |
| 16 | Arizona State University | 109 |
| 16 | Iowa State University | 109 |
| 18 | University of California, Los Angeles | 104 |
| 19 | University of California, Berkeley | 97 |
| 20 | University of Minnesota -Twin Cities | 94 |

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

| No | Institutions | Degrees Awarded |
|-------|--|-----------------|
| 21 | Cornell University | 90 |
| 22 | University of Central Florida | 89 |
| 22 | University of Maryland, College Park | 89 |
| 24 | The University of Texas at Arlington | 85 |
| 25 | University of California, Irvine | 83 |
| 25 | University of Wisconsin-Madison | 83 |
| 27 | Stony Brook University | 82 |
| 28 | Washington State University | 79 |
| 29 | University of Idaho | 78 |
| 30 | The University of Texas at Dallas | 74 |
| 31 | University of Florida | 73 |
| 32 | Northwestern University | 72 |
| 33 | Michigan State University | 71 |
| 34 | University at Buffalo, SUNY | 70 |
| 35 | Missouri University of Science and Technology | 69 |
| 36 | University of Washington in Seattle | 66 |
| 37 | University of Massachusetts Amherst | 64 |
| 38 | Rutgers, The State University of New Jersey, School of Engineering | 62 |
| 39 | University of Illinois at Chicago | 61 |
| 40 | Northeastern University | 57 |
| 40 | The Johns Hopkins University | 57 |
| 42 | Boston University | 55 |
| 43 | Clemson University | 54 |
| 44 | Auburn University | 53 |
| 44 | University of Pittsburgh | 53 |
| 46 | Rensselaer Polytechnic Institute | 51 |
| 46 | Texas Tech University | 51 |
| 46 | University of Nebraska, Lincoln | 51 |
| 49 | Duke University | 50 |
| 49 | University of South Florida | 50 |
| * 420 | 2 Institutions included | |

^{* 429} Institutions included

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

Table 68: Top 50 Institutions Awarding Bachelors Degrees (excluding computer science)

| No | Institutions | Degrees Awarded |
|----|--|-----------------|
| 1 | Georgia Institute of Technology | 2,276 |
| 2 | Purdue University | 2,005 |
| 3 | Texas A&M University | 1,958 |
| 4 | The Pennsylvania State University | 1,761 |
| 5 | University of Illinois at Urbana-Champaign | 1,739 |
| 6 | Iowa State University | 1,726 |
| 7 | Arizona State University | 1,675 |
| 8 | Virginia Polytechnic Institute and State University | 1,517 |
| 9 | The University of Texas at Austin | 1,399 |
| 10 | The Ohio State University | 1,397 |
| 11 | North Carolina State University | 1,368 |
| 12 | University of Florida | 1,305 |
| 13 | California Polytechnic State University, San Luis Obispo | 1,213 |
| 14 | University of Michigan | 1,205 |
| 15 | University of Central Florida | 1,169 |
| 16 | University of Colorado Boulder | 1,079 |
| 17 | University of Maryland, College Park | 1,077 |
| 18 | Missouri University of Science and Technology | 1,058 |
| 19 | Oregon State University | 1,021 |
| 20 | University of California, Berkeley | 1,013 |
| 21 | University of Wisconsin-Madison | 1,007 |
| 22 | University of Washington in Seattle | 1,003 |
| 23 | California State Polytechnic University, Pomona | 1,002 |
| 24 | Rutgers, The State University of New Jersey, School of Engineering | 988 |
| 25 | San Jose State University | 984 |
| 26 | The University of Alabama | 976 |
| 27 | Clemson University | 935 |
| 28 | University of California, San Diego | 929 |
| 29 | Michigan State University | 920 |
| 30 | Rensselaer Polytechnic Institute | 905 |
| 31 | Stony Brook University | 900 |
| 32 | Louisiana State University | 898 |
| 33 | Colorado School of Mines | 895 |
| | | |

Table 68: Top 50 Institutions Awarding Bachelors Degrees (excluding computer science) *(continued)*

| No | Institutions | Degrees Awarded |
|----|---|-----------------|
| 34 | University of California, Irvine | 883 |
| 35 | Texas Tech University | 877 |
| 36 | Auburn University | 869 |
| 37 | University of South Florida | 845 |
| 38 | San Diego State University | 827 |
| 39 | University at Buffalo, SUNY | 825 |
| 40 | California State University, Long Beach | 821 |
| 41 | University of Minnesota -Twin Cities | 818 |
| 42 | Northeastern University | 785 |
| 43 | University of California, Davis | 776 |
| 44 | George Mason University | 770 |
| 44 | West Virginia University | 770 |
| 46 | Michigan Technological University | 732 |
| 47 | Rochester Institute of Technology | 724 |
| 48 | Worcester Polytechnic Institute | 716 |
| 49 | Florida International University | 715 |
| 50 | University of North Carolina at Charlotte | 707 |

^{* 424} Institutions included

3.1.15 Top 50 Institutions Awarding Masters Degrees (excluding computer science both inside and outside Engineering)

Table 69: Top 50 Institutions Awarding Masters Degrees (excluding computer science)

| No | Institutions | Degrees Awarded |
|----|---|-----------------|
| 1 | Northeastern University | 1,737 |
| 2 | University of Southern California | 1,365 |
| 3 | Fu Foundation School of Engineering and Applied Science - Columbia University | 1,274 |
| 4 | Carnegie Mellon University | 1,221 |
| 5 | Georgia Institute of Technology | 1,143 |
| 6 | University of Michigan | 1,007 |
| 7 | University of California, Berkeley | 892 |
| 8 | Cornell University | 862 |
| 9 | San Jose State University | 859 |
| 10 | Arizona State University | 855 |
| 11 | Stanford University | 837 |
| 12 | University of Washington in Seattle | 829 |
| 13 | Massachusetts Institute of Technology | 767 |
| 14 | Texas A&M University | 741 |
| 15 | North Carolina State University | 728 |
| 16 | University of Illinois at Urbana-Champaign | 667 |
| 17 | University of California, San Diego | 665 |
| 18 | Northwestern University | 646 |
| 19 | NYU Tandon School of Engineering | 612 |
| 20 | Purdue University | 577 |
| 21 | University of Florida | 544 |
| 22 | The University of Texas at Arlington | 540 |
| 23 | University of Pennsylvania | 505 |
| 24 | University of Colorado Boulder | 501 |
| 25 | University at Buffalo, SUNY | 485 |
| 26 | The Johns Hopkins University | 471 |
| 27 | University of Maryland, College Park | 453 |
| 28 | Duke University | 452 |
| 29 | University of California, Los Angeles | 450 |
| 30 | The George Washington University | 448 |
| 31 | George Mason University | 439 |
| 32 | New Jersey Institute of Technology | 412 |
| 33 | Virginia Polytechnic Institute and State University | 391 |
| 34 | The University of Texas at Austin | 383 |
| 35 | University of Michigan-Dearborn | 378 |
| 36 | Clemson University | 370 |
| 37 | University of Wisconsin-Madison | 363 |
| 38 | Boston University | 356 |
| 39 | The Ohio State University | 353 |
| 40 | Santa Clara University | 351 |
| 41 | Washington University in St. Louis | 347 |
| 42 | The Pennsylvania State University | 346 |
| 43 | Missouri University of Science and Technology | 343 |
| 44 | Worcester Polytechnic Institute | 324 |
| 45 | University of South Florida | 320 |
| 46 | Wayne State University | 314 |
| 47 | Colorado School of Mines | 306 |
| 48 | University of Central Florida | 302 |
| 49 | Drexel University | 299 |
| 50 | Illinois Institute of Technology | 293 |
| | 4 Institutions included | |

⁴²⁴ Institutions included

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

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

| No | Institutions | Degrees Awarded |
|----|---|-----------------|
| 1 | Georgia Institute of Technology | 355 |
| 2 | Purdue University | 352 |
| 3 | University of Illinois at Urbana-Champaign | 295 |
| 4 | Stanford University | 294 |
| 5 | Massachusetts Institute of Technology | 288 |
| 6 | University of Michigan | 284 |
| 7 | Texas A&M University | 262 |
| 8 | The University of Texas at Austin | 220 |
| 9 | Virginia Polytechnic Institute and State University | 215 |
| 10 | The Pennsylvania State University | 198 |
| 10 | University of California, Berkeley | 198 |
| 12 | North Carolina State University | 194 |
| 13 | University of California, San Diego | 182 |
| 14 | University of Washington in Seattle | 168 |
| 15 | Cornell University | 151 |
| 16 | Missouri University of Science and Technology | 149 |
| 17 | The Ohio State University | 146 |
| 18 | Iowa State University | 143 |
| 18 | University of California, Los Angeles | 143 |
| 20 | Arizona State University | 141 |

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

| No | Institutions | Degrees Awarded |
|------|--|-----------------|
| 20 | University of Idaho | 141 |
| 22 | University of Florida | 136 |
| 23 | Northwestern University | 134 |
| 24 | University of Southern California | 132 |
| 25 | University of Maryland, College Park | 131 |
| 26 | Carnegie Mellon University | 129 |
| 27 | University of Minnesota -Twin Cities | 123 |
| 28 | Colorado School of Mines | 118 |
| 28 | University of Wisconsin-Madison | 118 |
| 30 | The Johns Hopkins University | 103 |
| 31 | University of Central Florida | 100 |
| 32 | University of Colorado Boulder | 98 |
| 33 | Washington State University | 92 |
| 34 | University of California, Davis | 90 |
| 35 | Boston University | 88 |
| 36 | The University of Texas at Arlington | 85 |
| 37 | University of Tennessee, Knoxville | 84 |
| 38 | University of Arizona | 82 |
| 39 | Clemson University | 80 |
| 39 | University of California, Irvine | 80 |
| 39 | William Marsh Rice University | 80 |
| 42 | Oregon State University | 76 |
| 43 | Stony Brook University | 75 |
| 43 | University of Illinois at Chicago | 75 |
| 43 | University of Pittsburgh | 75 |
| 46 | Duke University | 74 |
| 47 | Michigan State University | 72 |
| 47 | University at Buffalo, SUNY | 72 |
| 49 | Rutgers, The State University of New Jersey, School of Engineering | 71 |
| 49 | The University of Texas at Dallas | 71 |
| * 42 | 1 Institutions included | • |

^{* 424} Institutions included

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

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

| No | Institutions | Percentage |
|----|---|------------|
| 1 | Howard University | 100% |
| 1 | Lamar University | 100% |
| 1 | San Diego State University | 100% |
| 1 | The University of Mississippi | 100% |
| 1 | University of Michigan-Dearborn | 100% |
| 6 | Embry Riddle Aeronautical University-Daytona Beach | 92.9% |
| 7 | University of North Texas | 90.3% |
| 8 | University of Georgia | 88.2% |
| 9 | South Dakota State University | 87.5% |
| 9 | The University of Toledo | 87.5% |
| 11 | Pace University | 85.7% |
| 11 | University of Massachusetts-Boston | 85.7% |
| 13 | Illinois Institute of Technology | 85% |
| 14 | Oakland University | 84.6% |
| 14 | Texas A&M University - Kingsville | 84.6% |
| 16 | Michigan State University | 84.5% |
| 17 | The State University of New York at Binghamton | 81.4% |
| 18 | New Jersey Institute of Technology | 81.1% |
| 19 | University of Nebraska, Lincoln | 81% |
| 20 | University of Louisville | 80% |
| 21 | University of Missouri | 79.3% |
| 22 | Florida Atlantic University | 79.2% |
| 23 | Oklahoma State University | 78.8% |
| 24 | The University of Texas at Arlington | 78.7% |
| 25 | The University of Tulsa | 78.3% |
| 26 | Florida International University | 77.8% |
| 26 | New Mexico Institute of Mining and Technology | 77.8% |
| 26 | Villanova University | 77.8% |
| 29 | Ohio University | 77.3% |
| 29 | Texas Tech University | 77.3% |
| 31 | Western Michigan University | 76.9% |
| 32 | Stony Brook University | 76.6% |
| 33 | NYU Tandon School of Engineering | 76.3% |
| 34 | University at Buffalo, SUNY | 76.1% |
| 35 | Washington State University | 76% |
| 36 | University of Oklahoma, Gallogly College of Engineering | 75.6% |
| 37 | Syracuse University | 75% |
| 37 | The Catholic University of America | 75% |

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

| No | Institutions | Percentage |
|----|--|------------|
| 37 | University of Colorado Colorado Springs | 75% |
| 37 | University of Connecticut | 75% |
| 37 | University of Hawaii at Manoa | 75% |
| 37 | University of Miami | 75% |
| 37 | Wichita State University | 75% |
| 44 | University of Southern California | 74.8% |
| 45 | Auburn University | 74.6% |
| 46 | University of Arkansas at Little Rock | 73.7% |
| 47 | Southern Illinois University Carbondale | 73.3% |
| 48 | Texas A&M University | 73.1% |
| 49 | Purdue University | 72.9% |
| 49 | Rutgers, The State University of New Jersey, School of Engineering | 72.9% |

^{* 429} Institutions included

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

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

| No | Institutions | Percentage |
|----------------------------|--|---|
| 1 1 3 3 | University of California-Santa Cruz University of New Orleans The University of Alabama in Huntsville University of California, Davis | 40% 40% 40.5% 40.5% |
| 5 | University of California, Berkeley | 40.8% |
| 6 7 8 9 10 | The George Washington University Stanford University Vanderbilt University University of Maine The University of New Mexico | 41.6% 42% 43.9% 44.4% 44.7% |
| 11 12 13 14 15 | Missouri University of Science and Technology The University of Memphis University of Rhode Island Tulane University New Mexico State University | 45.1% 45.5% 46.2% 46.7% 47.1% |
| 15 15 18 19 20 | Old Dominion University The Johns Hopkins University Oregon State University University of Pennsylvania Brown University | 47.1% 47.1% 47.3% 47.4% 47.8% |
| 21 21 23 24 25 | University of Delaware University of Virginia George Mason University Northwestern University University of Florida | 47.9% 47.9% 48.5% 48.6% 49.7% |

⁴²⁹ Institutions included

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

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

| No | Institutions | Degrees Awarded |
|----|-----------------------------------|-----------------|
| 1 | Dartmouth College | 23 |
| 1 | University of Nebraska, Lincoln | 23 |
| 3 | Villanova University | 18 |
| 4 | Morgan State University | 13 |
| 5 | Arizona State University | 9 |
| 6 | Lamar University | 7 |
| 7 | Wright State University | 6 |
| 8 | Rochester Institute of Technology | 5 |
| 9 | Saint Louis University | 4 |
| 10 | Jackson State University | 3 |

¹²³ Institutions included

3.2 ENGINEERING DOCTORAL ENROLLMENT

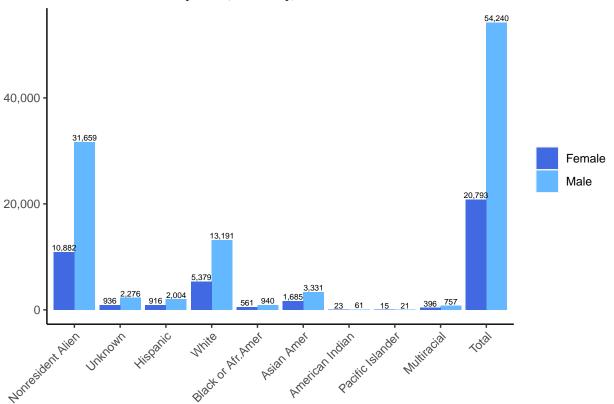
3.2.1 Doctoral Enrollment by Race, Ethnicity, and Gender

Table 74: Doctoral Enrollment by Race, Ethnicity, and Gender 75,033*

| Ethnicity | Enrollments |
|--|-------------|
| Nonresident Alien Male | 31,659 |
| Nonresident Alien Female | 10,882 |
| Unknown Male | 2,276 |
| Unknown Female | 936 |
| Hispanic Male | 2,004 |
| Hispanic Female | 916 |
| White Male | 13,191 |
| White Female | 5,379 |
| Black or Afr. American Male | 940 |
| Black or Afr. American Female | 561 |
| Asian American Male | 3,331 |
| Asian American Female | 1,685 |
| American Indian Male | 61 |
| American Indian Female | 23 |
| Native Hawaiian/Other Pacfic Islander Male | 21 |
| Native Hawaiian/Other Pacfic Islander Female | 15 |
| Multiracial Male | 757 |
| Multiracial Female | 396 |
| Total Male | 54,240 |
| Total Female | 20,793 |

Includes 73 male and 37 female enrolled students from Institutions in Puerto Rico.

Doctoral Enrollment by Race, Ethnicity, and Gender



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

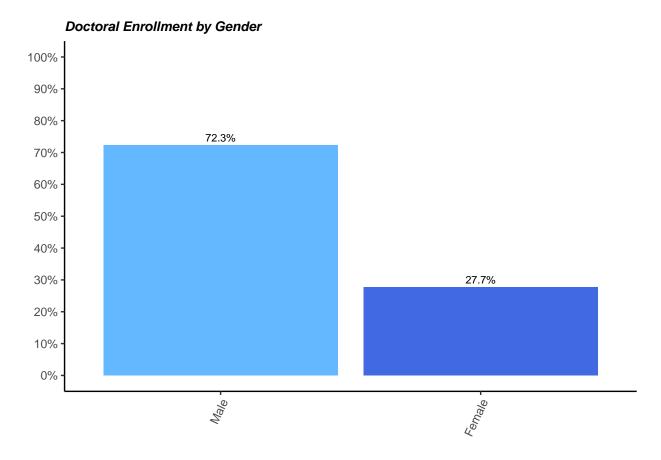
Table 75: Doctoral Enrollment by Engineering Discipline:(Full time and Part time)

| Discipline Name | Full Time | Part Time |
|----------------------------------|-----------|-----------|
| Aerospace | 2,694 | 231 |
| Architectural | 100 | 1 |
| Biological and Agricultural | 669 | 90 |
| Biomedical | 7,403 | 498 |
| Chemical | 6,555 | 268 |
| Civil | 4,418 | 598 |
| Civil/Environmental | 1,661 | 206 |
| Computer | 1,575 | 220 |
| Computer Sci. (inside Eng.) | 9,496 | 1,142 |
| Computer Sci. (outside Engr.) | 3,946 | 375 |
| Electrical | 6,102 | 646 |
| Electrical/Computer | 7,972 | 883 |
| Engineering (General) | 602 | 116 |
| Engineering Management | 134 | 155 |
| Engr. Science and Engr. Physics | 899 | 65 |
| Envr. Eng | 850 | 71 |
| Industrial/Manufacturing/Systems | 3,101 | 731 |
| Mechanical | 10,126 | 980 |
| Metallurgical and Matrls. | 4,781 | 214 |
| Mining | 97 | 17 |
| Nuclear | 824 | 79 |
| Other | 4,537 | 887 |
| Petroleum | 437 | 49 |
| | | |

3.2.3 Doctoral Enrollment by Gender

Table 76: Doctoral Enrollment by Gender

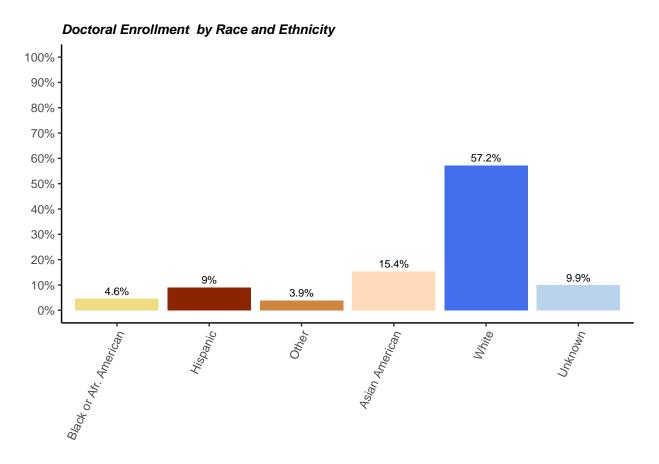
| Gender | Percentage |
|--------|------------|
| Female | 28.1% |
| Male | 71.9% |



3.2.4 Doctoral Enrollment by Race and Ethnicity

Table 77: Doctoral Enrollment by Race and Ethnicity*

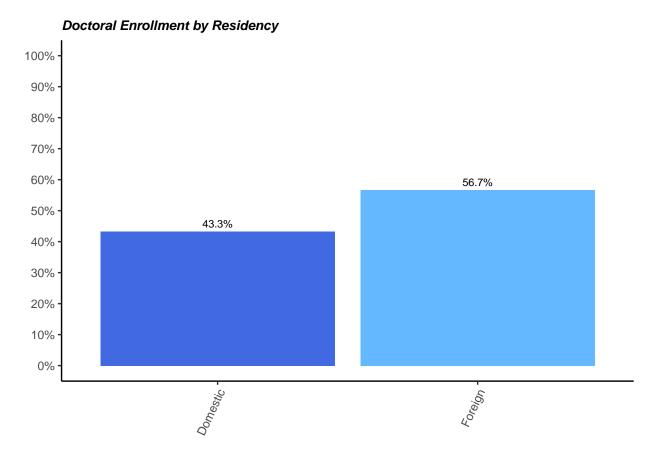
| Ethnicity | Percentage | |
|------------------------|------------|--|
| Black or Afr. American | 4.9% | |
| Hispanic | 9.1% | |
| Other | 5.1% | |
| Asian American | 15.4% | |
| White | 55.5% | |
| Unknown | 10% | |
| | | |



3.2.5 Doctoral Enrollment by Residency

Table 78: Doctoral Enrollment by Residency

| Nationality | Percentage | |
|-------------|------------|--|
| Foreign | 55.9% | |
| Domestic | 44.1% | |



4 ENGINEERING FACULTY, FALL 2020

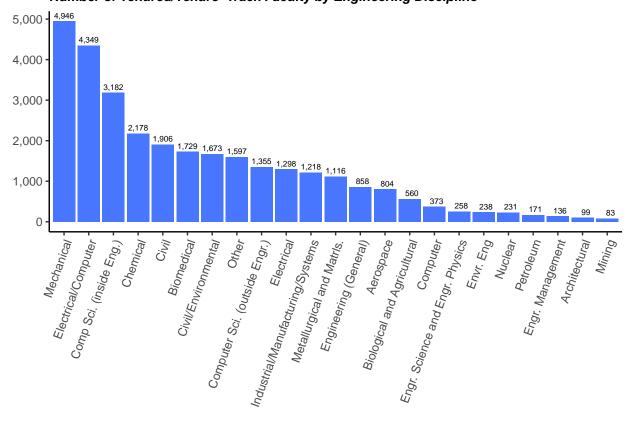
4.1 Number of Tenured/Tenure-Track Faculty by Engineering Discipline

Table 79: Number of Tenured/Tenure-Track Faculty by Engineering Discipline: 29,003

| Discipline Name | Number of Faculty |
|---|-------------------|
| Mechanical Electrical/Computer | 4,946 4,349 |
| Comp Sci. (inside Eng.) | 3,182 |
| Chemical Civil | 2,178 |
| | 1,906 |
| Biomedical | 1,729 |
| Civil/Environmental Other | 1,673 1,597 |
| Computer Sci. (outside Engr.) | 1,355 |
| Electrical | 1,298 |
| Industrial/Manufacturing/Systems | 1,218 |
| Metallurgical and Matrls. | 1,116 |
| Engineering (General) | 858 |
| Aerospace | 804 |
| Biological and Agricultural | 560 |
| Computer | 373 |
| Engr. Science and Engr. Physics Envr. Eng | 258 238 |
| Nuclear | 231 |
| Petroleum | 171 |
| Engr. Management | 136 |
| Architectural | 99 |
| Mining | 83 |

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

Number of Tenured/Tenure-Track Faculty by Engineering Discipline

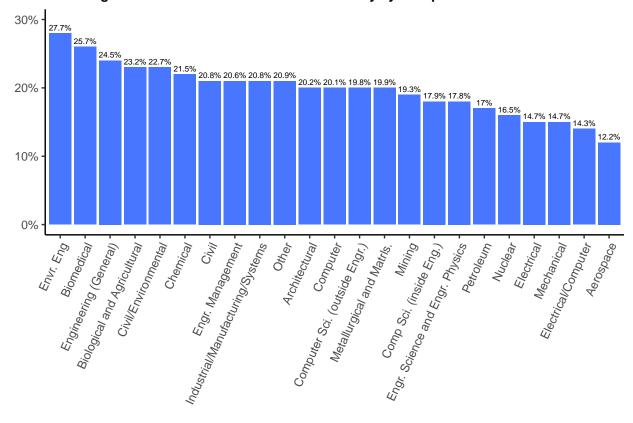


4.2 Percentage of Female Tenured/Tenure-Track Faculty by Discipline

Table 80: Percentage of Female Tenured/Tenure-Track Faculty by Discipline: 18.5 % of Total

| Discipline Name | Percent Women |
|----------------------------------|---------------|
| Envr. Eng | 27.7% |
| Biomedical | 25.7% |
| Engineering (General) | 24.5% |
| Biological and Agricultural | 23.2% |
| Civil/Environmental | 22.7% |
| Chemical | 21.5% |
| Other | 20.9% |
| Civil | 20.8% |
| Industrial/Manufacturing/Systems | 20.8% |
| Engr. Management | 20.6% |
| Architectural | 20.2% |
| Computer | 20.1% |
| Metallurgical and Matrls. | 19.9% |
| Computer Sci. (outside Engr.) | 19.8% |
| Mining | 19.3% |
| Comp Sci. (inside Eng.) | 17.9% |
| Engr. Science and Engr. Physics | 17.8% |
| Petroleum | 17% |
| Nuclear | 16.5% |
| Electrical | 14.7% |
| Mechanical | 14.7% |
| Electrical/Computer | 14.3% |
| Aerospace | 12.2% |

Percentage of Female Tenured/Tenure-Track Faculty by Discipline



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

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

| No | Institutions | Number of Faculty |
|----|---|-------------------|
| 1 | Georgia Institute of Technology | 583 |
| 2 | University of Illinois at Urbana-Champaign | 474 |
| 3 | Texas A&M University | 448 |
| 4 | University of Michigan | 429 |
| 5 | The Pennsylvania State University | 400 |
| 6 | Purdue University | 394 |
| 7 | Massachusetts Institute of Technology | 393 |
| 8 | Virginia Polytechnic Institute and State University | 389 |
| 9 | North Carolina State University | 377 |
| 10 | Arizona State University | 326 |
| 11 | The University of Texas at Austin | 317 |
| 12 | Florida Atlantic University | 316 |
| 12 | University of Florida | 316 |
| 14 | Carnegie Mellon University | 301 |
| 15 | Rensselaer Polytechnic Institute | 295 |
| 16 | The Ohio State University | 294 |
| 17 | Stanford University | 286 |

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

| No | Institutions | Number of Faculty |
|----|---|-------------------|
| 18 | University of Washington in Seattle | 283 |
| 19 | Cornell University | 275 |
| 20 | University of Wisconsin-Madison | 264 |
| 21 | University of Maryland, College Park | 263 |
| 22 | Iowa State University | 259 |
| 23 | University of California, Berkeley | 257 |
| 24 | Clemson University | 244 |
| 24 | University of California, San Diego | 244 |
| 26 | University of Notre Dame | 240 |
| 27 | University of Minnesota -Twin Cities | 238 |
| 28 | Michigan State University | 235 |
| 29 | University of California, Irvine | 233 |
| 30 | University of Utah | 223 |
| 31 | The Johns Hopkins University | 222 |
| 32 | Northeastern University | 220 |
| 33 | Northwestern University | 207 |
| 34 | University of California, Davis | 206 |
| 35 | Fu Foundation School of Engineering and Applied Science - Columbia University | 205 |
| 35 | Oregon State University | 205 |
| 37 | University of Pittsburgh | 198 |
| 38 | University of Nebraska, Lincoln | 196 |
| 39 | University of Massachusetts Amherst | 192 |
| 40 | Colorado School of Mines | 189 |
| 40 | University of Southern California | 189 |
| 42 | University of California, Los Angeles | 187 |
| 43 | University of Colorado Boulder | 186 |
| 44 | University of Tennessee, Knoxville | 183 |
| 45 | Duke University | 178 |
| 45 | University of Arizona | 178 |
| 47 | University at Buffalo, SUNY | 176 |
| 48 | University of Central Florida | 175 |
| 49 | Auburn University | 174 |
| 50 | The University of Texas at Arlington | 172 |

^{* 310} Institutions included

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

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

| No | Institutions | Number of Faculty |
|----|---|-------------------|
| 1 | University of Puerto Rico, Mayaguez Campus | 138 |
| 2 | Texas A&M University | 47 |
| 3 | Florida Atlantic University | 45 |
| 4 | University of Florida | 37 |
| 5 | Georgia Institute of Technology | 35 |
| 6 | Massachusetts Institute of Technology | 34 |
| 7 | The University of Texas at El Paso | 31 |
| 8 | Virginia Polytechnic Institute and State University | 30 |
| 9 | Purdue University | 29 |
| 10 | University of Illinois at Urbana-Champaign | 28 |
| 10 | University of Miami | 28 |
| 12 | Howard University | 26 |
| 13 | North Carolina State University | 24 |
| 14 | University of California, San Diego | 22 |
| 15 | Morgan State University | 21 |
| 15 | North Carolina A&T State University | 21 |
| 15 | Rensselaer Polytechnic Institute | 21 |
| 15 | The Pennsylvania State University | 21 |
| 15 | University of Michigan | 21 |
| 20 | Arizona State University | 20 |

^{* 310} Institutions included

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

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

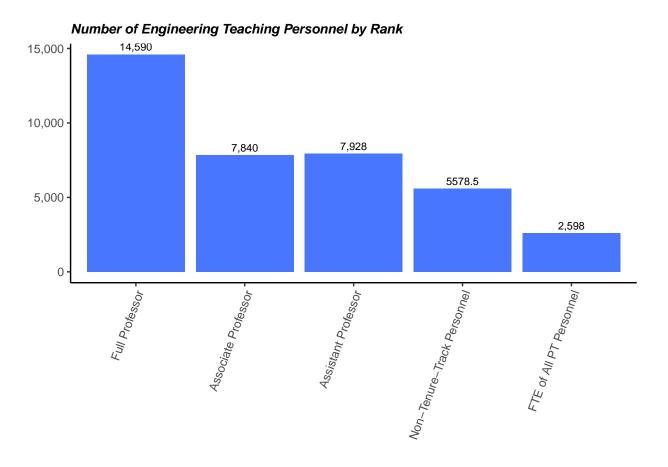
| No | Institutions | Percent Underrepresented Minorities |
|----|--|-------------------------------------|
| 1 | University of Puerto Rico, Mayaguez Campus | 93.2% |
| 2 | Virginia State University | 60% |
| 3 | Howard University | 57.8% |
| 4 | Morgan State University | 51.2% |
| 5 | The University of Texas at El Paso | 35.6% |
| 6 | Jackson State University | 31.2% |
| 7 | Central State University | 30.8% |
| 8 | University of Tennessee, Chattanooga | 29.9% |
| 9 | North Carolina A&T State University | 27.6% |
| 10 | University of Miami | 26.2% |
| 11 | Tuskegee University | 25.8% |
| 12 | Loyola University Chicago | 25% |
| 13 | St. Mary's University | 23.1% |
| 14 | University of Tennessee-Chattanooga | 22.7% |
| 15 | Texas State University | 22.2% |
| 16 | Kennesaw State University | 22% |
| 17 | John Brown University | 20% |
| 17 | Winona State University | 20% |
| 19 | Florida Institute of Technology | 19.6% |
| 20 | The University of Texas Rio Grande Valley | 19% |

³¹⁰ Institutions included

4.6 Number of Engineering Teaching Personnel by Rank

Table 84: Number of Engineering Teaching Personnel by Rank 38,534

| Rank | Number of Faculty | |
|----------------------------|-------------------|--|
| Full Professor | 14,590 | |
| Associate Professor | 7,840 | |
| Assistant Professor | 7,928 | |
| Non-Tenure-Track Personnel | 5578.5 | |
| FTE of All PT Personnel | 2,598 | |

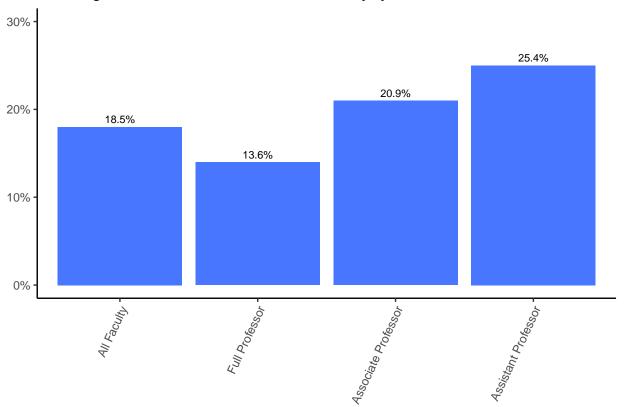


4.7 Percentage of Female Tenured/Tenure-Track Faculty by Rank

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

| Rank | Percent |
|---------------------|---------|
| All Faculty | 18.5% |
| Full Professor | 13.6% |
| Associate Professor | 20.9% |
| Assistant Professor | 25.4% |

Percentage of Female Tenured/Tenure-Track Faculty by Rank



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

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

| No | Institutions | Percent Women |
|----|--|---------------|
| 1 | Smith College | 70% |
| 2 | Sweet Briar College | 66.7% |
| 3 | Humboldt State University | 62.5% |
| 4 | Cameron University | 60% |
| 4 | Campbell University | 60% |
| 4 | Saint Ambrose University | 60% |
| 7 | Olin College of Engineering | 47.6% |
| 8 | Seattle University | 42.9% |
| 9 | University of Bridgeport | 38.9% |
| 10 | U.S. Coast Guard Academy | 35.3% |
| 11 | University of Portland | 35% |
| 12 | Middle Tennessee State University | 33.3% |
| 12 | Santa Clara University | 33.3% |
| 12 | Swarthmore College | 33.3% |
| 12 | University of San Diego | 33.3% |
| 16 | San Jose State University | 32.6% |
| 17 | Lafayette College | 32.6% |
| 18 | Mercer University | 32.4% |
| 19 | California State University, Long Beach | 31.6% |
| 20 | University of St. Thomas | 31.4% |
| 21 | California Baptist University | 31% |
| 22 | Loyola Marymount University | 30% |
| 22 | Union College | 30% |
| 24 | Roger Williams University | 29.4% |
| 25 | University of Massachusetts Lowell | 29.3% |
| 26 | Texas Christian University | 28.6% |
| 27 | University of Wisconsin, Platteville | 28.3% |
| 28 | University of California, Merced | 28.3% |
| 29 | University of Hartford | 28% |
| 30 | University of New Haven | 27.8% |
| 31 | Wentworth Institute of Technology | 27.5% |
| 32 | Fairfield University | 27.3% |
| 33 | University of Puerto Rico, Mayaguez Campus | 27% |
| 34 | Gannon University | 26.9% |
| 34 | Trine University | 26.9% |
| 36 | Gonzaga University | 26.7% |
| 36 | New York Institute of Technology | 26.7% |
| 38 | University of Washington in Seattle | 26.5% |
| 39 | Rowan University | 26.5% |
| 40 | Harvey Mudd College | 26.3% |
| 41 | Tufts University | 26.1% |
| 42 | Valparaiso University | 25.9% |
| 43 | Oregon State University | 25.9% |
| 44 | University of Maryland, Baltimore County | 25.8% |
| 45 | Bucknell University | 25.8% |
| 46 | University of California, Irvine | 25.8% |
| 47 | Stevens Institute of Technology | 25.7% |
| 48 | Carnegie Mellon University | 25.2% |
| 49 | Abilene Christian University | 25% |
| 49 | Baker College | 25% |

³¹⁰ Institutions included

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

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

| No | Institutions | Number of Faculty |
|----|---|-------------------|
| 1 | Georgia Institute of Technology | 115 |
| 2 | University of Illinois at Urbana-Champaign | 94 |
| 3 | University of Michigan | 90 |
| 4 | Massachusetts Institute of Technology | 79 |
| 4 | Purdue University | 79 |
| 6 | University of Florida | 77 |
| 7 | Carnegie Mellon University | 76 |
| 7 | The Pennsylvania State University | 76 |
| 9 | University of Washington in Seattle | 75 |
| 10 | Virginia Polytechnic Institute and State University | 73 |
| 11 | Arizona State University | 72 |
| 12 | Texas A&M University | 71 |
| 13 | North Carolina State University | 69 |
| 14 | Cornell University | 65 |
| 14 | The University of Texas at Austin | 65 |
| 16 | The Ohio State University | 63 |
| 17 | University of California, Irvine | 60 |
| 18 | Stanford University | 59 |
| 18 | University of California, Berkeley | 59 |
| 20 | Oregon State University | 53 |

³¹⁰ Institutions included

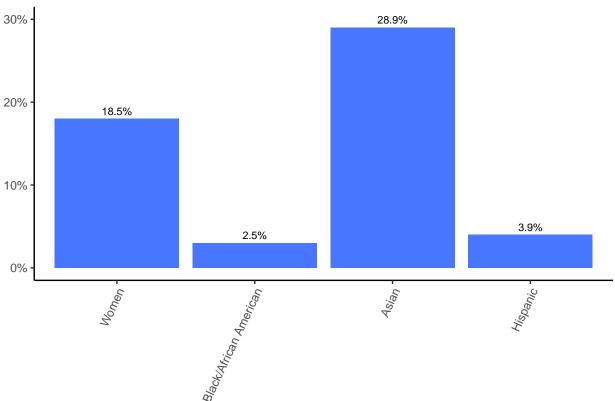
4.10 Percentage of Women and Minority Faculty Members

Table 88: Percentage of Women and Minority Faculty Members

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

^{*} Includes faculty data from University of Puerto Rico, Mayaguez.

Percentage of Women and Minority Faculty Members 2010–2020*



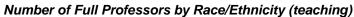
4.11 Number of Full Professors by Race/Ethnicity

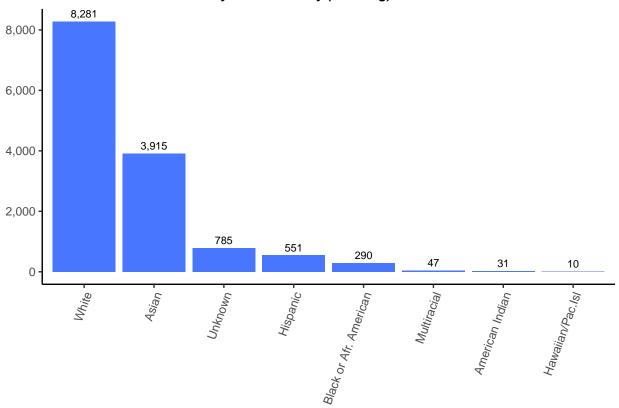
Table 89: Number of Full Professors by Race/Ethnicity: 13,910

| Ethnicity | Number of Faculty |
|------------------------|-------------------|
| White | 8,281 |
| Asian | 3,915 |
| Unknown | 785 |
| Hispanic | 551 |
| Black or Afr. American | 290 |
| Multiracial | 47 |
| American Indian | 31 |
| Hawaiian/Pac.Isl | 10 |

^{*} Includes 124 Faculty from Institutions in Puertio Rico.

^{*} Computer Science(Outside Engineering) has been removed





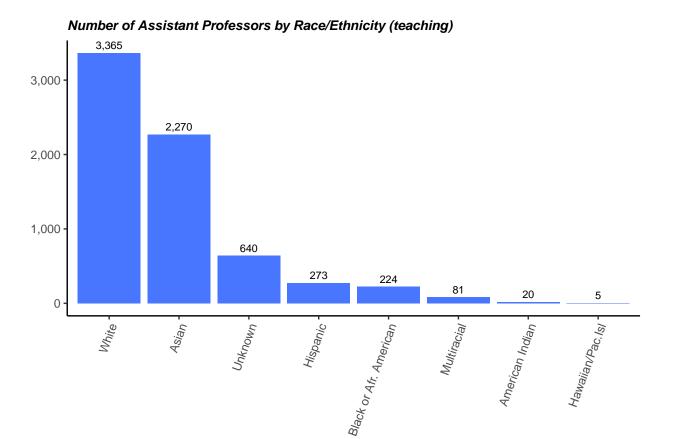
4.12 Number of Assistant Professors by Race/Ethnicity

Table 90: Number of Assistant Professors by Race/Ethnicity: 6,878

| Ethnicity | Number of Faculty |
|------------------------|-------------------|
| White | 3,365 |
| Asian | 2,270 |
| Unknown | 640 |
| Hispanic | 273 |
| Black or Afr. American | 224 |
| Multiracial | 81 |
| American Indian | 20 |
| Hawaiian/Pac.IsI | 5 |

^{*} Includes 4 Faculty from Institutions in Puertio Rico.

^{*} Computer Science(Outside Engineering) has been removed



4.13 Number of Associate Professors by Race/Ethnicity

Table 91: Number of Associate Professors by Race/Ethnicity: 7,400

| Ethnicity | Number of Faculty |
|------------------------|-------------------|
| White | 4,085 |
| Asian | 2,214 |
| Unknown | 428 |
| Hispanic | 335 |
| Black or Afr. American | 237 |
| Multiracial | 60 |
| American Indian | 30 |
| Hawaiian/Pac.IsI | 11 |

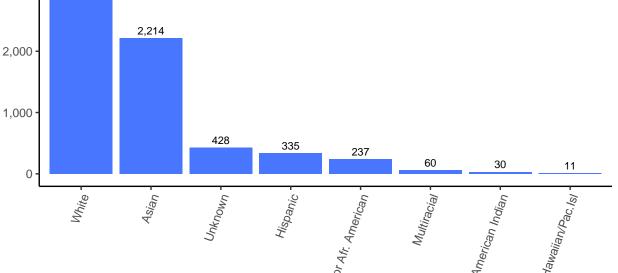
^{*} Includes 20 Faculty from Institutions in Puertio Rico.

^{*} Computer Science(Outside Engineering) has been removed



Number of Associate Professors by Race/Ethnicity (teaching)

4,085

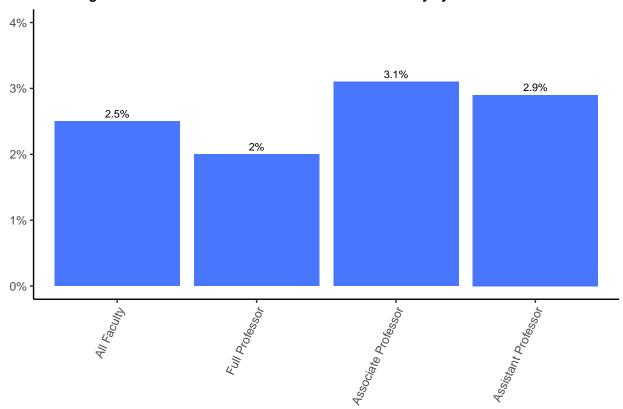


4.14 Percentage of Black/African American Tenured/Tenure-Track Faculty by Rank

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

| Rank | Percent |
|---------------------|---------|
| All Faculty | 2.5% |
| Full Professor | 2% |
| Associate Professor | 3.1% |
| Assistant Professor | 2.9% |

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

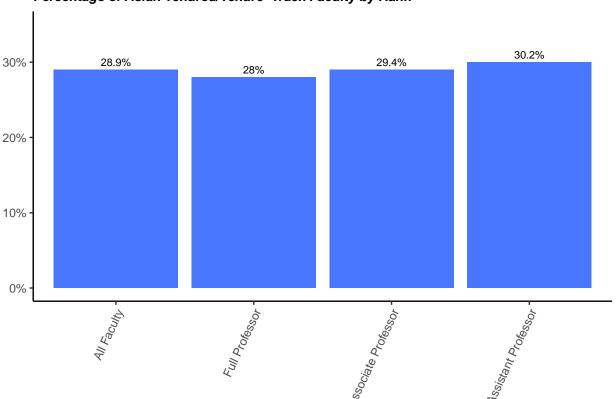


4.15 Percentage of Asian Tenured/Tenure-Track Faculty by Rank

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

| Rank | Percent |
|---------------------|---------|
| All Faculty | 28.9% |
| Full Professor | 28% |
| Associate Professor | 29.4% |
| Assistant Professor | 30.2% |

Percentage of Asian Tenured/Tenure-Track Faculty by Rank

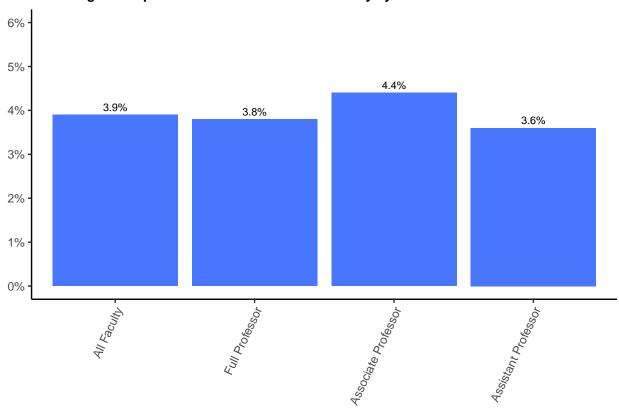


4.16 Percentage of Hispanic Tenured/Tenure-Track Faculty by Rank

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

| Rank | Percent |
|---------------------|---------|
| All Faculty | 3.9% |
| Full Professor | 3.8% |
| Associate Professor | 4.4% |
| Assistant Professor | 3.6% |

Percentage of Hispanic Tenured/Tenure-Track Faculty by Rank



4.17 African American Tenured/Tenure Track Faculty by Institutions

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

| No | Institutions | Number of Faculty |
|----|---|-------------------|
| 1 | Howard University | 24 |
| 2 | North Carolina A&T State University | 20 |
| 2 | University of Florida | 20 |
| 4 | Georgia Institute of Technology | 19 |
| 4 | Morgan State University | 19 |
| 6 | FAMU-FSU College of Engineering | 16 |
| 7 | University of Tennessee-Chattanooga | 15 |
| 8 | University of Tennessee, Chattanooga | 14 |
| 9 | Massachusetts Institute of Technology | 13 |
| 9 | University of Michigan | 13 |
| 11 | Virginia Polytechnic Institute and State University | 12 |
| 12 | Rensselaer Polytechnic Institute | 11 |
| 12 | Texas A&M University | 11 |
| 12 | The Johns Hopkins University | 11 |
| 15 | Florida Atlantic University | 10 |
| 15 | University of Illinois at Urbana-Champaign | 10 |
| 15 | University of Maryland, College Park | 10 |
| 18 | Clemson University | 9 |
| 18 | Cornell University | 9 |
| 18 | University of California, Irvine | 9 |

³¹⁰ Institutions included

4.18 Asian Tenured/Tenure Track Faculty by Institutions

Table 96: Asian Tenured/Tenure Track Faculty by Institutions

| No | Institutions | Number of Faculty |
|----|---|-------------------|
| 1 | Georgia Institute of Technology | 194 |
| 2 | Texas A&M University | 151 |
| 3 | Florida Atlantic University | 147 |
| 4 | Purdue University | 138 |
| 5 | University of Illinois at Urbana-Champaign | 126 |
| 6 | Rensselaer Polytechnic Institute | 117 |
| 7 | Arizona State University | 113 |
| 8 | University of Michigan | 106 |
| 9 | Iowa State University | 105 |
| 10 | North Carolina State University | 103 |
| 11 | The Ohio State University | 101 |
| 12 | Michigan State University | 98 |
| 12 | University of California, Los Angeles | 98 |
| 14 | Virginia Polytechnic Institute and State University | 94 |
| 15 | University of Central Florida | 90 |
| 16 | The University of Texas at Arlington | 89 |
| 16 | University of California, San Diego | 89 |
| 18 | University at Buffalo, SUNY | 88 |
| 19 | The Pennsylvania State University | 84 |
| 19 | The University of Texas at Austin | 84 |

^{* 310} Institutions included

4.19 Hispanic Tenured/Tenure Track Faculty by Institutions

Table 97: Hispanic Tenured/Tenure Track Faculty by Institutions

| No | Institutions | Number of Faculty |
|----|---|-------------------|
| 1 | University of Puerto Rico, Mayaguez Campus | 137 |
| 2 | Florida Atlantic University | 35 |
| 2 | · · | |
| _ | Texas A&M University | 35 |
| 4 | The University of Texas at El Paso | 27 |
| 5 | Massachusetts Institute of Technology | 21 |
| 5 | Purdue University | 21 |
| 5 | University of Miami | 21 |
| 8 | The University of Texas at San Antonio | 18 |
| 8 | University of California, San Diego | 18 |
| 8 | University of Illinois at Urbana-Champaign | 18 |
| 11 | North Carolina State University | 17 |
| 11 | University of Florida | 17 |
| 13 | Arizona State University | 16 |
| 13 | Georgia Institute of Technology | 16 |
| 13 | University of Arizona | 16 |
| 16 | Virginia Polytechnic Institute and State University | 15 |
| 17 | The University of Texas at Austin | 14 |
| 18 | The Pennsylvania State University | 13 |
| 18 | University of California, Berkeley | 13 |
| 20 | Stanford University | 12 |

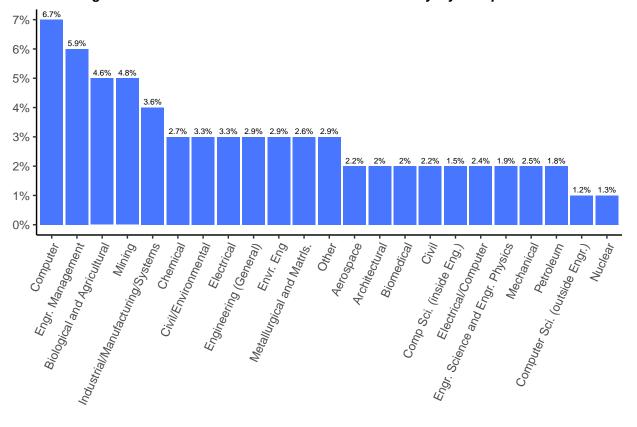
³¹⁰ Institutions included

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

Table 98: Percentage of African American Tenured/Tenure-Track Faculty by Discipline: 2.5 % of Total

| Discipline Name | Percentage |
|----------------------------------|------------|
| Computer | 6.7% |
| Engr. Management | 5.9% |
| Mining | 4.8% |
| Biological and Agricultural | 4.6% |
| Industrial/Manufacturing/Systems | 3.6% |
| Civil/Environmental | 3.3% |
| Electrical | 3.3% |
| Engineering (General) | 2.9% |
| Envr. Eng | 2.9% |
| Other | 2.9% |
| Chemical | 2.7% |
| Metallurgical and Matrls. | 2.6% |
| Mechanical | 2.5% |
| Electrical/Computer | 2.4% |
| Aerospace | 2.2% |
| Civil | 2.2% |
| Architectural | 2% |
| Biomedical | 2% |
| Engr. Science and Engr. Physics | 1.9% |
| Petroleum | 1.8% |
| Comp Sci. (inside Eng.) | 1.5% |
| Nuclear | 1.3% |
| Computer Sci. (outside Engr.) | 1.2% |

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

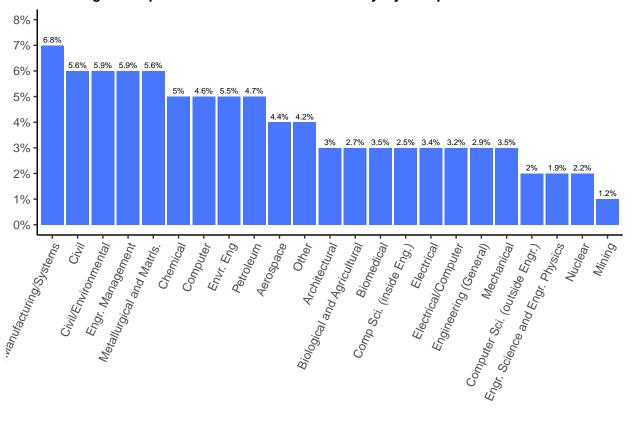


4.21 Percentage of Hispanic Tenured/Tenure-Track Faculty by Discipline

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

| Discipline Name | Percentage |
|----------------------------------|------------|
| Industrial/Manufacturing/Systems | 6.8% |
| Civil/Environmental | 5.9% |
| Engr. Management | 5.9% |
| Civil | 5.6% |
| Metallurgical and Matrls. | 5.6% |
| Envr. Eng | 5.5% |
| Chemical | 5% |
| Petroleum | 4.7% |
| Computer | 4.6% |
| Aerospace | 4.4% |
| Other | 4.2% |
| Biomedical | 3.5% |
| Mechanical | 3.5% |
| Electrical | 3.4% |
| Electrical/Computer | 3.2% |
| Architectural | 3% |
| Engineering (General) | 2.9% |
| Biological and Agricultural | 2.7% |
| Comp Sci. (inside Eng.) | 2.5% |
| Nuclear | 2.2% |
| Computer Sci. (outside Engr.) | 2% |
| Engr. Science and Engr. Physics | 1.9% |
| Mining | 1.2% |

Percentage of Hispanic Tenured/Tenure-Track Faculty by Discipline

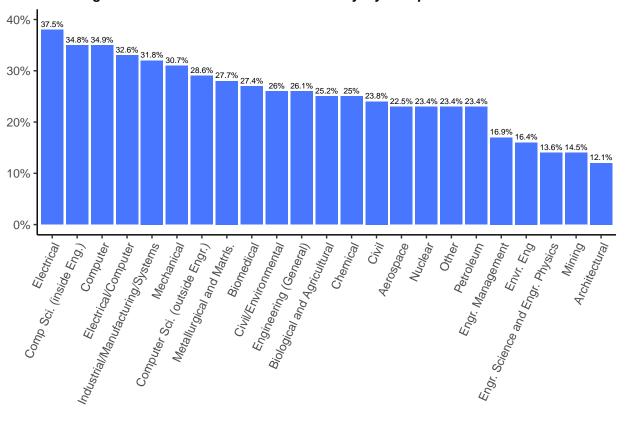


4.22 Percentage of Asian Tenured/Tenure-Track Faculty by Discipline

Table 100: Percentage of Asian Tenured/Tenure-Track Faculty by Discipline: 28.9 % of Total

| Discipline Name | Percentage |
|----------------------------------|------------|
| Electrical | 37.5% |
| Computer | 34.9% |
| Comp Sci. (inside Eng.) | 34.8% |
| Electrical/Computer | 32.6% |
| Industrial/Manufacturing/Systems | 31.8% |
| Mechanical | 30.7% |
| Computer Sci. (outside Engr.) | 28.6% |
| Metallurgical and Matrls. | 27.7% |
| Biomedical | 27.4% |
| Engineering (General) | 26.1% |
| Civil/Environmental | 26% |
| Biological and Agricultural | 25.2% |
| Chemical | 25% |
| Civil | 23.8% |
| Nuclear | 23.4% |
| Other | 23.4% |
| Petroleum | 23.4% |
| Aerospace | 22.5% |
| Engr. Management | 16.9% |
| Envr. Eng | 16.4% |
| Mining | 14.5% |
| Engr. Science and Engr. Physics | 13.6% |
| Architectural | 12.1% |

Percentage of Asian Tenured/Tenure-Track Faculty by Discipline



ENGINEERING RESEARCH EXPENDITURES, FISCAL YEAR 2020

5.1 Top 50 Research Expenditure By Institutions

Table 101: Top 50 Research Expenditure By Institutions

| No | Institution | Expenditure(IN MILLIONS) |
|------|--|--------------------------|
| 1 | Massachusetts Institute of Technology | \$467 |
| 2 | Texas A&M University | \$333.6 |
| 3 | Purdue University | \$325.8 |
| 4 | University of Michigan | \$309 |
| 5 | Georgia Institute of Technology | \$279.7 |
| 6 | Carnegie Mellon University | \$269.7 |
| 7 | Stanford University | \$256.5 |
| 8 | University of California, Berkeley | \$240.7 |
| 9 | The University of Texas at Austin | \$232.3 |
| 10 | University of Illinois at Urbana-Champaign | \$229.4 |
| 11 | University of California, San Diego | \$222.5 |
| 12 | University of Southern California | \$211.6 |
| 13 | North Carolina State University | \$203.1 |
| 14 | The Johns Hopkins University | \$194.1 |
| 15 | University of Washington in Seattle | \$191.9 |
| 16 | University of Washington in Seattle University of Maryland, College Park | \$181.2 |
| 17 | Cornell University | \$160.5 |
| 18 | • | \$159.9 |
| | University of Colorada Baulder | \$159.9 \$152.8 |
| 19 | University of Colorado Boulder | · |
| 20 | Virginia Polytechnic Institute and State University | \$140.6 |
| 21 | The Ohio State University | \$137.7 |
| 22 | Northwestern University | \$136.9 |
| 23 | Duke University | \$131.6 |
| 24 | Arizona State University | \$131 |
| 25 | University of Wisconsin-Madison | \$130.5 |
| 26 | Wichita State University | \$126.4 |
| 27 | The Pennsylvania State University | \$122.1 |
| 28 | University of Pennsylvania | \$119 |
| 29 | Boston University | \$112.1 |
| 30 | University of Rochester | \$110.6 |
| 31 | California Institute of Technology | \$109.5 |
| 32 | University of Pittsburgh | \$106.4 |
| 33 | University of Notre Dame | \$103.5 |
| 34 | University of California, Los Angeles | \$99.8 |
| 35 | University of California, Irvine | \$98.1 |
| 36 | University of Minnesota -Twin Cities | \$97.1 |
| 37 | University of California, Davis | \$93 |
| 38 | Iowa State University | \$90.2 |
| 39 | University at Buffalo, SUNY | \$86.3 |
| 40 | Colorado State University | \$82.4 |
| 41 | University of Florida | \$82.1 |
| 42 | University of Virginia | \$81.9 |
| 43 | University of Utah | \$78.2 |
| 44 | University of Tennessee, Knoxville | \$74.9 |
| 45 | University of Delaware | \$74.7 |
| 46 | Auburn University | \$72.9 |
| 47 | Princeton University | \$72 |
| 48 | Rensselaer Polytechnic Institute | \$71.8 |
| 49 | William Marsh Rice University | \$70.6 |
| 50 | New Jersey Institute of Technology | \$67.4 |
| * 21 | 7 Institutions included | |

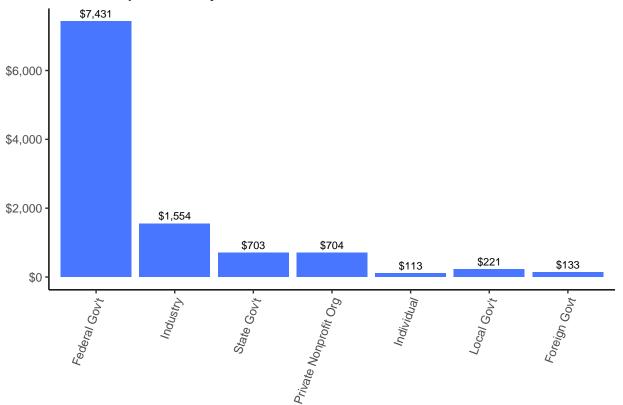
²¹⁷ Institutions included

5.2 Research Expenditures By Source in Millions of Dollars

Table 102: Research Expenditures By Source in Millions of Dollars: \$10,859

| Expenditure | Amount |
|-----------------------|---------|
| Federal Gov't | \$7,431 |
| Industry | \$1,554 |
| State Gov't | \$703 |
| Private Nonprofit Org | \$704 |
| Individual | \$113 |
| Local Gov't | \$221 |
| Foreign Govt | \$133 |

Research Expenditures By Source in Millions of Dollars:



5.3 Computer Science Research Expenditures Located Outside of Engineering By Institutions

Table 103: Computer Science Research Expenditures Located Outside of Engineering By Institution

| No | Institution | Expenditure(IN MILLIONS) |
|-----|--|--------------------------|
| 1 | Carnegie Mellon University | \$143.2 |
| 2 | Georgia Institute of Technology | \$39.9 |
| 3 | The University of Texas at Austin | \$33.2 |
| 4 | University of Maryland, College Park | \$26.2 |
| 5 | University of California, Irvine | \$25.5 |
| 6 | University of Massachusetts Amherst | \$21 |
| 7 | Purdue University | \$19.3 |
| 8 | The University of Alabama in Huntsville | \$19.1 |
| 9 | University of Wisconsin-Madison | \$19.1 |
| 10 | Northeastern University | \$17.6 |
| 11 | University of Colorado Boulder | \$15.1 |
| 12 | Rutgers, The State University of New Jersey, School of Engineering | \$10.6 |
| 13 | Rensselaer Polytechnic Institute | \$10 |
| 14 | Worcester Polytechnic Institute | \$8.6 |
| 15 | Brown University | \$8.2 |
| 16 | New Jersey Institute of Technology | \$6.8 |
| 17 | Dartmouth College | \$6.4 |
| 18 | University of Arizona | \$4.2 |
| 19 | The University of Memphis | \$3.9 |
| _20 | Colorado State University | \$3.7 |

^{* 39} Institutions included

6 CANADIAN ENGINEERING

6.1 Engineering Bachelors Degree by Canadian Institutions

Table 104: Engineering Bachelors Degree by Canadian Institutions

| No | Institutions | Degrees Awarded |
|----|-----------------------------------|-----------------|
| 1 | University of Waterloo | 1,348 |
| 2 | University of Toronto | 1,080 |
| 3 | University of British Columbia | 922 |
| 4 | Concordia University, Montreal | 849 |
| 5 | University of Alberta | 797 |
| 6 | McMaster University | 752 |
| 7 | University of Calgary | 595 |
| 8 | The University of Western Ontario | 500 |

6.2 Engineering Masters Degree by Canadian Institutions

Table 105: Engineering Masters Degree by Canadian Institutions

| No | Institutions | Degrees Awarded |
|----|-----------------------------------|-----------------|
| 1 | Concordia University, Montreal | 1,224 |
| 2 | University of Toronto | 791 |
| 3 | University of Waterloo | 553 |
| 4 | The University of Western Ontario | 437 |
| 5 | University of Alberta | 314 |
| 6 | University of British Columbia | 310 |
| 7 | University of Calgary | 296 |
| 8 | McMaster University | 155 |

6.3 Engineering Doctoral Degree by Canadian Institutions

Table 106: Engineering Doctoral Degree by Canadian Institutions

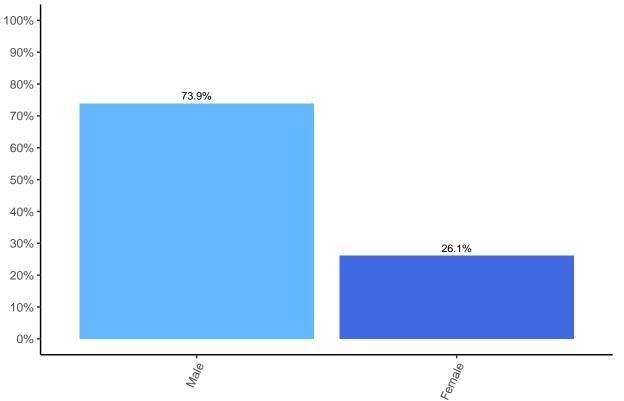
| No | Institutions | Degrees Awarded |
|----|-----------------------------------|-----------------|
| 1 | University of Waterloo | 157 |
| 2 | University of Toronto | 133 |
| 3 | University of Alberta | 96 |
| 4 | Concordia University, Montreal | 80 |
| 5 | University of Calgary | 76 |
| 6 | University of British Columbia | 74 |
| 7 | The University of Western Ontario | 65 |
| 8 | McMaster University | 42 |

6.4 Bachelors Degrees Awarded by Gender- Canadian Institutions

Table 107: Bachelors Degrees Awarded by Gender- Canadian Institutions

| Gender | Percentage |
|--------|------------|
| Female | 26.1% |
| Male | 73.9% |

Bachelors Degrees Awarded by Gender- Canadian Institutions

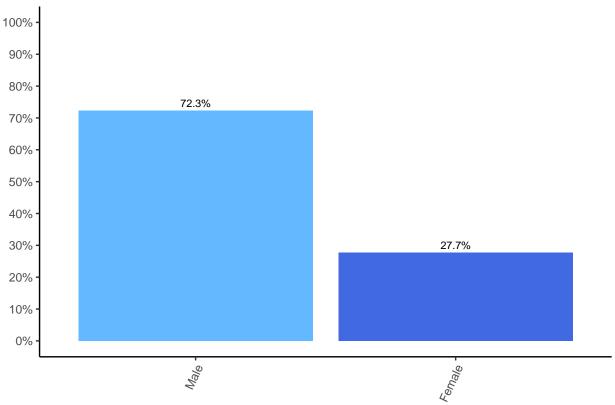


6.5 Masters Degrees Awarded by Gender- Canadian

Table 108: Masters Degrees Awarded by Gender- Canadian Institutions

| Gender | Percentage |
|--------|------------|
| Female | 27.7% |
| Male | 72.3% |



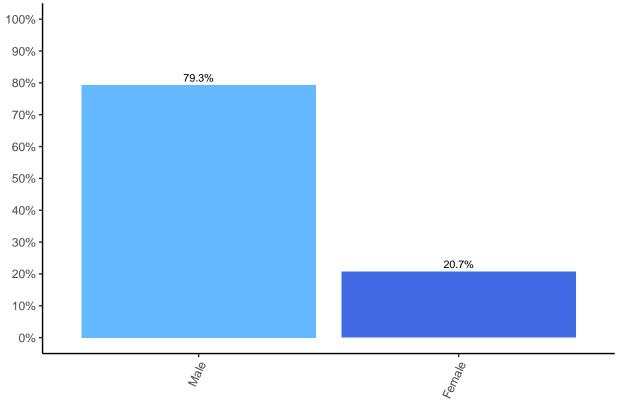


6.6 Doctoral Degrees Awarded by Gender- Canadian Institutions

Table 109: Doctoral Degrees Awarded by Gender- Canadian Institutions

| Gender | Percentage |
|--------|------------|
| Female | 20.7% |
| Male | 79.3% |

Doctoral Degrees Awarded by Gender- Canadian Institutions



6.7 Tenured/Tenure-Track Faculty Members by Institutions

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

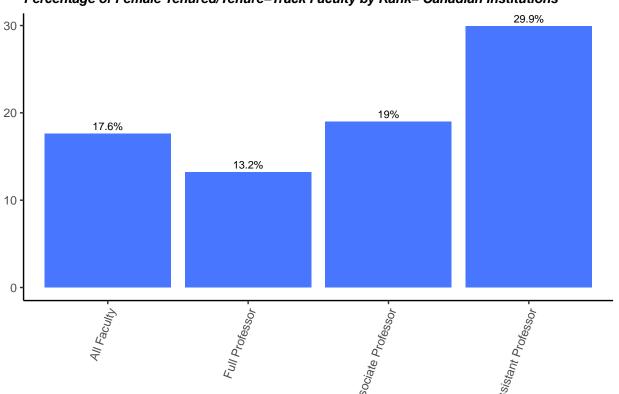
| No | Institutions | Degrees Awarded |
|----|-----------------------------------|-----------------|
| 1 | University of Waterloo | 281 |
| 2 | Concordia University, Montreal | 275 |
| 3 | University of Toronto | 247 |
| 4 | University of Alberta | 224 |
| 5 | University of British Columbia | 175 |
| 6 | University of Calgary | 149 |
| 7 | McMaster University | 147 |
| 8 | The University of Western Ontario | 100 |

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

Table 111: Doctoral Enrollment by Race and Ethnicity*

| Rank | Percent |
|---------------------|---------|
| All Faculty | 17.6% |
| Full Professor | 13.2% |
| Associate Professor | 19% |
| Assistant Professor | 29.9% |

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



7 ENGINEERING TECHNOLOGY

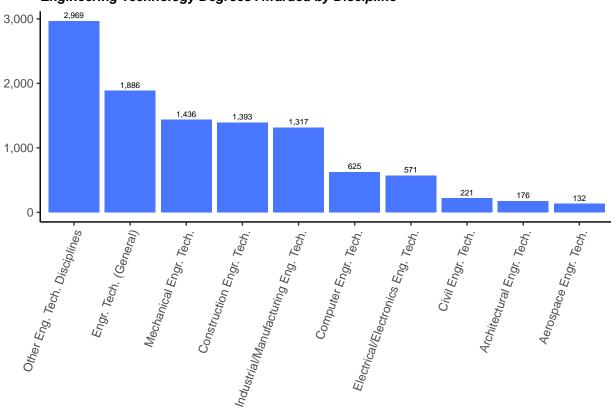
7.1 ENGINEERING TECHNOLOGY DEGREES

7.1.1 Engineering Technology Degrees Awarded by Discipline

Table 112: Engineering Technology Degrees Awarded by Discipline: 10,726

| Discipline Name | Degrees Awarded |
|-------------------------------------|-----------------|
| Other Eng. Tech. Disciplines | 2,969 |
| Engr. Tech. (General) | 1,886 |
| Mechanical Engr. Tech. | 1,436 |
| Construction Engr. Tech. | 1,393 |
| Industrial/Manufacturing Eng. Tech. | 1,317 |
| Computer Engr. Tech. | 625 |
| Electrical/Electronics Eng. Tech. | 571 |
| Civil Engr. Tech. | 221 |
| Architectural Engr. Tech. | 176 |
| Aerospace Engr. Tech. | 132 |

Engineering Technology Degrees Awarded by Discipline



7.1.2 Engineering Technology Degrees Awarded to Underrepresented Minorities by Discipline

Table 113: Engineering Technology Degrees Awarded to Underrepresented Minorities by Engineering Discipline: 2,336

| Discipline Name | Degrees Awarded |
|-------------------------------------|-----------------|
| Other Eng. Tech. Disciplines | 737 |
| Engr. Tech. (General) | 515 |
| Construction Engr. Tech. | 320 |
| Industrial/Manufacturing Eng. Tech. | 222 |
| Mechanical Engr. Tech. | 211 |
| Computer Engr. Tech. | 132 |
| Electrical/Electronics Eng. Tech. | 104 |
| Civil Engr. Tech. | 39 |
| Architectural Engr. Tech. | 36 |
| Aerospace Engr. Tech. | 20 |

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

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

Table 114: Percentage of Engineering Technology Degrees Awarded to Underrepresented Minorities by Discipline 21.5 % of Total

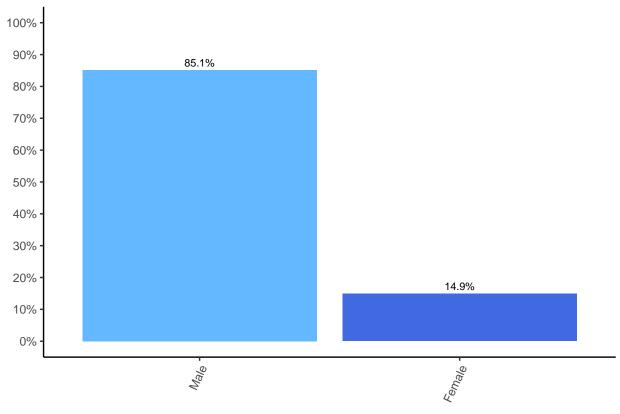
| Discipline Name | Percent Women |
|-------------------------------------|---------------|
| Engr. Tech. (General) | 27.3% |
| Other Eng. Tech. Disciplines | 24.8% |
| Construction Engr. Tech. | 23% |
| Computer Engr. Tech. | 21.1% |
| Architectural Engr. Tech. | 20.5% |
| Electrical/Electronics Eng. Tech. | 18.2% |
| Civil Engr. Tech. | 17.6% |
| Industrial/Manufacturing Eng. Tech. | 16.9% |
| Aerospace Engr. Tech. | 15.2% |
| Mechanical Engr. Tech. | 14.7% |

7.1.4 Engineering Technology Bachelors Degrees Awarded by Gender

Table 115: Engineering Technology Bachelors Degrees Awarded by Gender

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





7.1.5 Engineering Technology Bachelors Degrees Awarded by Race and Ethnicity

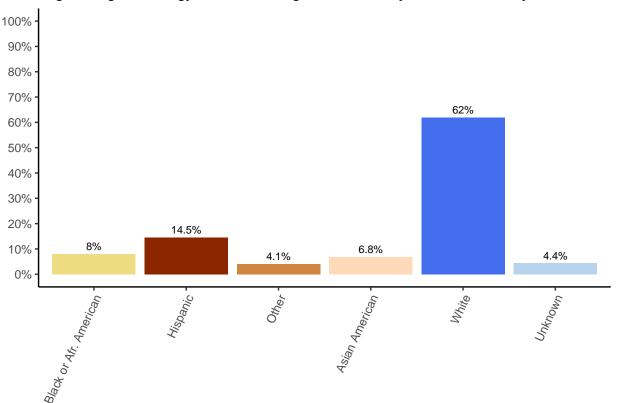
Table 116: Engineering Technology Bachelors Degrees Awarded by Race and Ethnicity*

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

^{*} American Indian/Alaska Native 0.5% Native Hawaiian/Other Pacific Islander 0.3% and Multiracial 3.4% are combined under other

Data on ethnicity does not include foreign nationals.

Engineering Technology Bachelor...s Degrees Awarded by Race and Ethnicity

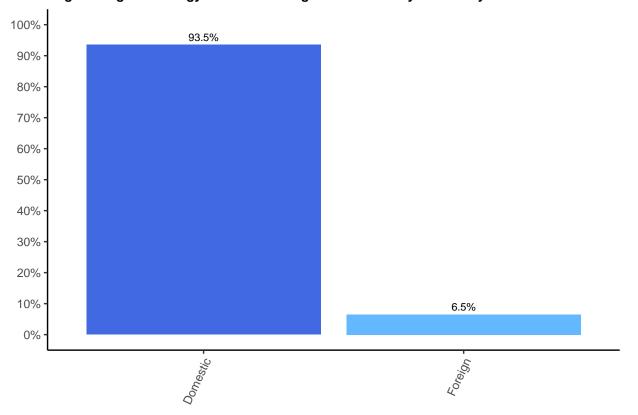


7.1.6 Engineering Technology Bachelors Degrees Awarded by Residency

Table 117: Engineering Technology Bachelors Degrees Awarded by Residency

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

Engineering Technology Bachelor...s Degrees Awarded by Residency



7.1.7 Top 50 Institutions Awarding Highest Number of ET Degrees

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

| No | Institutions | Degrees Awarded |
|----|---|-----------------|
| 1 | University of Houston | 903 |
| 2 | Arizona State University | 687 |
| 3 | Farmingdale State College (SUNY) | 543 |
| 4 | Texas A&M University | 541 |
| 5 | East Carolina University | 500 |
| 6 | Indiana University-Purdue University Indianapolis | 337 |
| 7 | Ferris State University | 253 |
| 8 | Eastern Michigan University | 233 |
| 9 | Rochester Institute of Technology | 223 |
| 10 | University of North Carolina at Charlotte | 222 |
| 11 | New Jersey Institute of Technology | 217 |
| 12 | Purdue University Northwest, Technology | 193 |
| 13 | Texas State University | 187 |
| 14 | The University of Toledo | 171 |
| 15 | University of Wisconsin, Platteville | 168 |
| 16 | Oklahoma State University | 163 |
| 17 | Old Dominion University | 162 |
| 18 | Kennesaw State University | 149 |
| 19 | University of Cincinnati | 143 |
| 20 | Murray State University | 136 |
| 21 | Eastern Kentucky University | 131 |
| 22 | University of Southern Mississippi | 128 |
| 23 | Purdue University Northwest, Engineering | 126 |
| 24 | California State University-Chico | 115 |
| 25 | Georgia Southern University | 108 |
| 26 | The Pennsylvania State University | 104 |
| 27 | Northern Illinois University | 101 |
| 27 | Penn State Erie, The Behrend College | 101 |
| 29 | Tarleton State University | 98 |
| 30 | University of Dayton | 97 |
| 30 | University of North Texas | 97 |
| 32 | University of Louisiana at Lafayette | 92 |
| 32 | University of Maine | 92 |
| 32 | Western Carolina University | 92 |
| 35 | California State University-Fresno | 90 |
| 36 | University of Wisconsin - Stout | 89 |
| 37 | Montana State University | 87 |
| 38 | SUNY Polytechnic Institute | 85 |
| 39 | New Mexico State University | 84 |
| 39 | Weber State University | 84 |
| 41 | Central Connecticut State University | 83 |
| 42 | California State Polytechnic University, Pomona | 81 |
| 42 | Western Michigan University | 81 |
| 44 | Eastern Washington University | 79 |
| 45 | Miami University | 78 |
| 46 | University of Central Oklahoma | 74 |
| 47 | Oregon Institute of Technology | 73 |
| 47 | Purdue University Fort Wayne | 73 |
| 47 | Southeast Missouri State University | 73 |
| 50 | Ohio University | 71 |
| |) Institutions included | |

120 Institutions included

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

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

| No | Institutions | Degrees Awarded |
|----|---|-----------------|
| 1 | University of Houston | 444 |
| 2 | Farmingdale State College (SUNY) | 186 |
| 3 | Arizona State University | 172 |
| 4 | Texas A&M University | 136 |
| 5 | East Carolina University | 90 |
| 6 | Texas State University | 69 |
| 7 | Indiana University-Purdue University Indianapolis | 63 |
| 8 | New Jersey Institute of Technology | 58 |
| 9 | New Mexico State University | 52 |
| 10 | Kennesaw State University | 51 |
| 11 | California State University-Chico | 41 |
| 11 | Eastern Michigan University | 41 |
| 11 | Rochester Institute of Technology | 41 |
| 14 | California State University-Fresno | 38 |
| 15 | California State Polytechnic University, Pomona | 35 |

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

| No | Institutions | Degrees Awarded |
|-------|--|-----------------|
| 16 | University of North Carolina at Charlotte | 34 |
| 17 | University of North Texas | 32 |
| 18 | Prairie View A & M University | 31 |
| 19 | Old Dominion University | 27 |
| 20 | University of Southern Mississippi | 26 |
| 21 | Central Connecticut State University | 25 |
| 21 | Northern Illinois University | 25 |
| 23 | Purdue University Northwest, Engineering | 24 |
| 24 | Jackson State University | 23 |
| 24 | University of Hartford | 23 |
| 26 | Ferris State University | 22 |
| 27 | Lamar University | 19 |
| 28 | Georgia Southern University | 18 |
| 28 | Tarleton State University | 18 |
| 28 | Vaughn College of Aeronautics and Technology | 18 |
| 31 | University of Louisiana at Lafayette | 16 |
| 32 | Norfolk State University | 15 |
| 32 | Oklahoma State University | 15 |
| 32 | South Carolina State University | 15 |
| 35 | Murray State University | 14 |
| 35 | Virginia State University | 14 |
| 37 | University of Maryland Eastern Shore | 13 |
| 38 | Miami University | 12 |
| 38 | University of Cincinnati | 12 |
| 40 | Eastern Kentucky University | 11 |
| 40 | Western Michigan University | 11 |
| 42 | Purdue University Northwest, Technology | 10 |
| 42 | The University of Memphis | 10 |
| 42 | Western Carolina University | 10 |
| 42 | Western Illinois University | 10 |
| 46 | Alabama A & M University | 9 |
| 46 | Eastern Washington University | 9 |
| 46 | Middle Tennessee State University | 9 |
| 46 | SUNY Polytechnic Institute | 9 |
| 46 | University of Dayton | 9 |
| * 120 |) Institutions included | |

¹²⁰ Institutions included

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

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

| No | Institutions | Percent Underrepresented Minorities |
|----|--|-------------------------------------|
| 1 | Alabama A & M University | 100% |
| 1 | Benjamin Franklin Institute of Technology | 100% |
| 1 | Jackson State University | 100% |
| 1 | Prairie View A & M University | 100% |
| 5 | South Carolina State University | 93.8% |
| 6 | Norfolk State University | 83.3% |
| 7 | University of Maryland Eastern Shore | 72.2% |
| 8 | New Mexico State University | 61.9% |
| 9 | The University of Texas Rio Grande Valley | 60% |
| 10 | Vaughn College of Aeronautics and Technology | 54.5% |
| 11 | Pace University | 50% |
| 11 | Wright State University | 50% |
| 13 | University of Houston | 49.2% |
| 14 | Western Illinois University | 43.5% |
| 15 | California State Polytechnic University, Pomona | 43.2% |
| 16 | California State University-Fresno | 42.2% |
| 17 | Lamar University | 38.8% |
| 18 | Colorado State University, Pueblo | 38.1% |
| 19 | Texas State University | 36.9% |
| 20 | California State University-Chico | 35.7% |
| 21 | Farmingdale State College (SUNY) | 34.3% |
| 22 | Kennesaw State University | 34.2% |
| 23 | Drexel University | 33.3% |
| 23 | University of Hartford | 33.3% |
| 25 | University of North Texas | 33% |
| 26 | Central Connecticut State University | 30.1% |
| 27 | Fairleigh Dickinson University-Metropolitan Campus | 30% |
| 27 | West Texas A & M University | 30% |
| 29 | The University of Memphis | 28.6% |
| 30 | Virginia State University | 26.9% |
| 31 | New Jersey Institute of Technology | 26.7% |
| 32 | Texas A&M University | 25.1% |
| 33 | Arizona State University | 25% |
| 34 | Northern Illinois University | 24.8% |
| 35 | Tennessee State University | 23.8% |
| 36 | Eastern Illinois University | 22.7% |
| 37 | The University of West Florida | 21.9% |

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

| No | Institutions | Percent Underrepresented Minorities |
|----|---|-------------------------------------|
| 38 | University of Southern Mississippi | 20.3% |
| 39 | Purdue University Northwest, Engineering | 19% |
| 40 | Indiana University-Purdue University Indianapolis | 18.7% |
| 41 | Rochester Institute of Technology | 18.4% |
| 42 | Tarleton State University | 18.4% |
| 43 | East Carolina University | 18% |
| 44 | Eastern Michigan University | 17.6% |
| 45 | University of Louisiana at Lafayette | 17.4% |
| 46 | Georgia Southern University | 16.7% |
| 46 | Old Dominion University | 16.7% |
| 48 | Miami University | 15.4% |
| 48 | Thomas Jefferson University | 15.4% |
| 50 | University of North Carolina at Charlotte | 15.3% |

¹²⁰ Institutions included

7.1.10 Top 50 Institutions Awarding Engineering Technology Degrees to Women

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

| No | Institutions | Degrees Awarded |
|----|---|-----------------|
| 1 | University of Houston | 213 |
| 2 | Arizona State University | 189 |
| 3 | Farmingdale State College (SUNY) | 144 |
| 4 | Texas A&M University | 102 |
| 5 | Indiana University-Purdue University Indianapolis | 101 |
| 6 | Eastern Michigan University | 62 |
| 7 | East Carolina University | 43 |
| 8 | Ferris State University | 35 |
| 9 | Eastern Kentucky University | 33 |
| 10 | Rochester Institute of Technology | 32 |
| 11 | Texas State University | 26 |
| 12 | Murray State University | 25 |
| 13 | Kennesaw State University | 24 |
| 14 | New Jersey Institute of Technology | 22 |
| 14 | Purdue University Northwest, Technology | 22 |
| 16 | University of Southern Mississippi | 21 |
| 17 | University of Dayton | 19 |
| 18 | The University of Toledo | 18 |
| 18 | University of North Carolina at Charlotte | 18 |
| 20 | Old Dominion University | 16 |
| 21 | New Mexico State University | 15 |
| 22 | George Fox University | 13 |
| 22 | University of Hartford | 13 |
| 22 | University of North Texas | 13 |
| 22 | University of Wisconsin - Stout | 13 |
| 22 | University of Wisconsin, Platteville | 13 |
| 27 | California State University-Chico | 12 |
| 27 | Tarleton State University | 12 |
| 29 | University of Central Oklahoma | 11 |
| 30 | Prairie View A & M University | 10 |
| 30 | Southeast Missouri State University | 10 |
| 30 | The Pennsylvania State University | 10 |
| 33 | California State Polytechnic University, Pomona | 9 |
| 33 | Jackson State University | 9 |
| 33 | Purdue University Northwest, Engineering | 9 |
| 33 | University of North Florida | 9 |
| 37 | Central Michigan University | 8 |
| 37 | Miami University | 8 |
| 37 | University of Portland | 8 |
| 37 | Western Michigan University | 8 |
| 41 | California State University-Fresno | 7 |
| 41 | Lamar University | 7 |
| 41 | Louisiana Tech University | 7 |
| 41 | Middle Tennessee State University | 7 |
| 41 | Oregon Institute of Technology | 7 |
| 41 | Penn State Erie, The Behrend College | 7 |
| 41 | University of Maryland Eastern Shore | 7 |
| 41 | Virginia State University | 7 |
| 49 | Central Connecticut State University | 6 |
| 49 | Montana State University | 6 |

¹²⁰ Institutions included

7.2 ENGINEERING TECHNOLOGY ENROLLMENT, FALL 2019

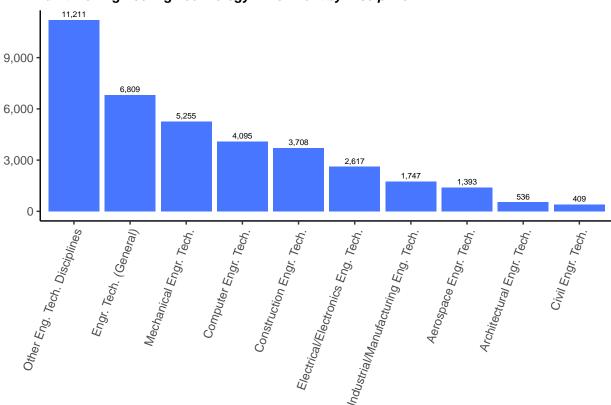
7.2.1 Full time Engineering Technology Enrollment by Discipline

Table 122: Full time Engineering Technology Enrollment by Discipline: 37,780

| Discipline Name | Degrees Awarded |
|-------------------------------------|-----------------|
| Other Eng. Tech. Disciplines | 11,211 |
| Engr. Tech. (General) | 6,809 |
| Mechanical Engr. Tech. | 5,255 |
| Computer Engr. Tech. | 4,095 |
| Construction Engr. Tech. | 3,708 |
| Electrical/Electronics Eng. Tech. | 2,617 |
| Industrial/Manufacturing Eng. Tech. | 1,747 |
| Aerospace Engr. Tech. | 1,393 |
| Architectural Engr. Tech. | 536 |
| Civil Engr. Tech. | 409 |

Enrollment is for full time Bachelors degree candidates in Engineering Technology

full time Engineering Technology Enrollment by Discipline



7.2.2 Top 50 Institutions by Engineering Technology Enrollment

Table 123: Top 50 Institutions by Engineering Technology Enrollment

| No | Institutions | Enrollments |
|----|---|-------------|
| 1 | University of Houston, College of Technology | 6,030 |
| 2 | Arizona State University | 5,257 |
| 3 | Purdue University Polytechnic Institute | 4,754 |
| 4 | University of Houston | 4,748 |
| 5 | Farmingdale State College (SUNY) | 2,286 |
| 6 | Texas A&M University | 2,247 |
| 7 | East Carolina University | 2,241 |
| 8 | Ferris State University | 2,039 |
| 9 | Eastern Michigan University | 1,772 |
| 10 | Rochester Institute of Technology | 1,222 |
| 11 | Indiana University-Purdue University Indianapolis | 1,206 |
| 12 | New Jersey Institute of Technology | 996 |
| 13 | Purdue University Northwest, Technology | 776 |
| 14 | Kennesaw State University | 758 |
| 15 | The University of Toledo | 756 |
| 16 | University of North Carolina at Charlotte | 736 |
| 17 | Old Dominion University | 716 |
| 18 | University of Cincinnati | 659 |
| 19 | University of Maine | 599 |
| 20 | Oklahoma State University | 562 |
| 21 | California State Polytechnic University, Pomona | 524 |
| 22 | Indiana University-Purdue University Fort Wayne | 508 |
| 22 | Purdue University Fort Wayne | 508 |
| 24 | University of North Texas | 463 |
| 25 | New Mexico State University | 411 |

Table 123: Top 50 Institutions by Engineering Technology Enrollment *(continued)*

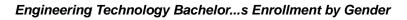
| No | Institutions | Enrollments |
|----|--|-------------|
| 26 | The Pennsylvania State University | 410 |
| 27 | Montana State University | 379 |
| 27 | SUNY Polytechnic Institute | 379 |
| 29 | University of Wisconsin - Stout | 378 |
| 30 | Western Carolina University | 374 |
| 31 | Oregon Institute of Technology | 339 |
| 32 | Buffalo State | 336 |
| 33 | Brigham Young University - Idaho | 318 |
| 34 | Northern Illinois University | 315 |
| 35 | Minnesota State University-Mankato | 295 |
| 36 | University of Hartford | 293 |
| 37 | Miami University | 288 |
| 38 | University of Dayton | 278 |
| 39 | Wayne State University | 268 |
| 40 | Penn State Erie, The Behrend College | 245 |
| 41 | The University of Memphis | 240 |
| 42 | Ohio University | 237 |
| 43 | Louisiana Tech University | 236 |
| 43 | South Dakota State University | 236 |
| 45 | Abilene Christian University | 234 |
| 46 | Tennessee Technological University | 217 |
| 47 | University of Tennessee, Chattanooga | 215 |
| 48 | California State University Maritime Academy | 207 |
| 49 | Virginia State University | 206 |
| 50 | Western Michigan University | 205 |

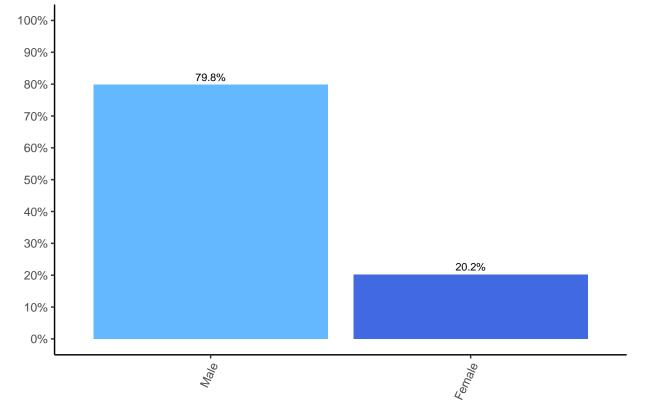
^{* 120} Institutions reported.

7.2.3 Engineering Technology Enrollment by Gender

Table 124: Engineering Technology Enrollment by Gender

| Gender | Percentage |
|--------|------------|
| Female | 20.8% |
| Male | 79.2% |





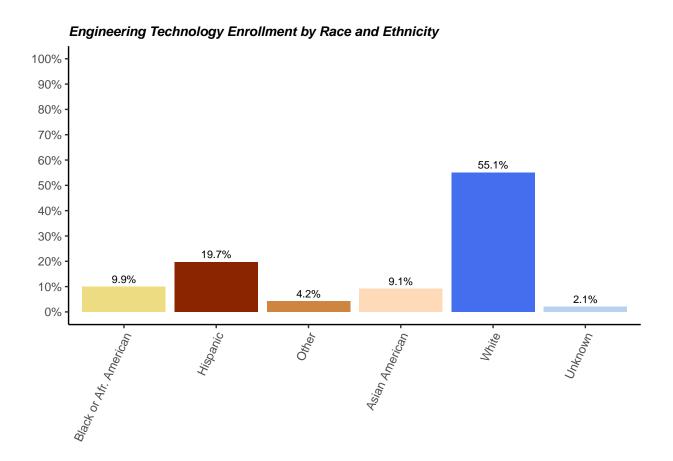
^{*} Enrollment is for full time and part-time Bachelors degree candidates in engineering technology.

7.2.4 Engineering Technology Enrollment by Race and Ethnicity

Table 125: Engineering Technology Enrollment by Race and Ethnicity*

| Ethnicity | Percentage |
|------------------------|------------|
| Black or Afr. American | 9.8% |
| Hispanic | 16.5% |
| Other | 7.1% |
| Asian American | 8.1% |
| White | 55.4% |
| Unknown | 3% |

^{*} American Indian/Alaska Native 0.5% Native Hawaiian/Other Pacific Islander 0.2%



^{*} and Multiracial 3.5% are combined under other

^{*} Data on ethnicity does not include foreign nationals.

7.2.5 Engineering Technology Enrollment by Residency

Table 126: Engineering Technology Enrollment Awarded by Residency

| Nationality | Percentage |
|-------------|------------|
| Foreign | 4.3% |
| Domestic | 95.7% |

^{*} Enrollment is for full time and part-time Bachelors degree candidates in engineering technology * 69 Institutions reported.

Engineering Technology Enrollment Awarded by Residency

