

COLLEGE OF ENGINEERING

RESOURCES

The solutions to challenges great and small lie not in the hands of one person, but emerge from the diverse ideas, perspectives, and backgrounds of many people working together. Whether a prospective or current faculty member, staff member, or student, members of the College of Engineering create a welcoming community where they can be themselves and strive to become whatever they want to be. Here are some of the services and organizations that students can utilize along the way.

ENGINEERING SCHOLARSHIPS

The College of Engineering awards over two million dollars in scholarships each year to its students.

Incoming Freshman Awards: Beginning in 2021-2022, there is no longer a separate scholarship application for incoming freshmen. The admissions applications of admitted students will be reviewed and selection will be based on students' academic record, extracurricular activities, application essays, and letters of recommendation. This new process pertains to both scholarships that are based on need and those which are not based on need. Learn more about College of Engineering scholarships for incoming first-year students, which include the STAR, LEED, Engineering Freshman Awards, and Departmental Scholarships, here: <https://engineering.wisc.edu/admissions/scholarships/>. Additional details about LEED scholarships (Leaders in Engineering Excellence and Diversity), can also be found in the Inclusion, Equity, and Diversity Student Center (IEDE Student Center) section below.

Scholarship award considerations are based on a holistic approach that encourages diversity in the programs while considering course rigor and compatibility and potential for success in the program. Financial need can be a factor for some scholarships based on their Free Application for Federal Student Aid (FAFSA®). Students must submit a FAFSA to UW-Madison in order to be considered for need-based scholarships. For more information on the FAFSA, please refer to the Office of Student Financial Aid website: <https://financialaid.wisc.edu/applying/>.

Continuing Student Awards: Each spring, continuing undergraduate students in the College of Engineering are eligible to apply for college-wide and departmental scholarships. The application period is mid-February through mid-April and students must have progressed in their department to be considered for awards for the following academic year. Students can apply by visiting the Wisconsin Scholarship Hub (WiSH) (<https://wisc.academicworks.com/>).

Off-campus Transfer Students: There is no longer a separate scholarship application for incoming off-campus transfer students. The admissions applications and transcripts of admitted off-campus transfer students will be reviewed for scholarship opportunities. Each semester, several scholarships are awarded to recognize the outstanding achievements of incoming transfer student scholars who join the College of Engineering from other colleges and universities.

ACADEMIC ADVISING

Each College of Engineering program has academic advisors (<https://engineering.wisc.edu/student-services/undergraduate-student->

[advising/](https://engineering.wisc.edu/student-services/undergraduate-student-)) dedicated to serving its students. Program advisors can help current College of Engineering students with questions about accessing courses, navigating degree requirements, resolving academic issues, and more. Students can find their assigned advisor in their student center.

UNDERGRADUATE LEARNING CENTER

The Undergraduate Learning Center (<https://engineering.wisc.edu/student-services/undergraduate-learning-center/>) (ULC) in the College of Engineering provides tutoring and academic support programs for engineering undergraduates wanting to excel in their courses. The ULC is a place where students study, form study groups, and discuss engineering concepts and problem-solving strategies with their peers and with the tutors and facilitators.

Drop-In-Tutoring Sessions

Sessions are offered for over 60 courses in mathematics, chemistry, physics, statistics, computer sciences, and engineering. The sessions provide help with homework problems, concept review, and exam preparation. Drop-in tutoring sessions are offered each evening from Sunday to Thursday, resulting in approximately 15,000 student visits in a typical year.

PrEPS (Practicing Engineering Problem Solving) Labs

Labs were developed to help students succeed in core courses that have traditionally proved challenging for students. The courses targeted are early in the engineering curricula and contain dense material content delivered at a fast pace. The labs reinforce concepts through practicing problem solving skills. Students commit to meeting twice every week for 75 minutes per meeting.

Tutoring by Request

Based on the Tutorial Services Room model developed at MIT, the College of Engineering offers Tutoring by Request (TBR) for students in critical need. Assistance is offered in a variety of courses, ranging from gateway courses such as chemistry, math, physics courses, to intermediate-level engineering courses.

Special Courses and Workshops

Special courses are targeted toward helping students learn topics that span multiple courses such as math concepts common to a variety of introductory engineering courses. Self-guided online tutorials are available for several early math courses. Workshops are offered in topics such as MATLAB, R, and vector review to help students be successful in their engineering courses. Availability varies by semester.

STUDY ABROAD

In today's global marketplace, there is an increasing need for broadly educated engineering graduates with cross-cultural skills, international understanding, and proficiency in more than one language. International Academic Programs (IAP) and the College of Engineering are committed to providing and expanding international opportunities that will assist engineering students in obtaining these important skills.

International Academic Programs, in collaboration with the College of Engineering, offers semester, year-long, and summer study abroad programs for engineering students (<https://studyabroad.wisc.edu/programsearch/?advisinglocation=103>), and additional opportunities (<https://studyabroad.wisc.edu/programsearch/?AreaOfFocus=77788>) on which engineering students can complete degree requirements through other units at institutions in many countries around the world. These programs offer engineering students the opportunity to continue to make

progress toward degree requirements and have a meaningful experience abroad.

The College of Engineering also offers a Certificate in International Engineering. Courses in language and culture taken abroad and in Madison can count toward this certificate, which demonstrates the student's knowledge of a specific country or region. This credential appears on the student's transcript, strengthens their resume, and testifies to their preparation for an international career.

For more information regarding international programs, visit studyabroad.wisc.edu (<https://studyabroad.wisc.edu/>).

ENGINEERING CAREER SERVICES WITH COOPERATIVE EDUCATION

Engineering Career Services (ECS) assists students in identifying pre-professional work-based learning experiences such as co-ops and summer internships, considering and applying to graduate or professional school, and finding full-time professional employment during their graduation year.

ECS offers two major career fairs per year, assists with resume writing and interviewing skills, hosts workshops on the job search, and meets one-on-one with students to discuss offer negotiations.

Students are encouraged to utilize the ECS office early in their academic careers. For comprehensive information on ECS programs and workshops, see the ECS website (<https://ecs.wisc.edu>) or call 608-262-3471.

INCLUSION, EQUITY, AND DIVERSITY IN ENGINEERING STUDENT CENTER

The Inclusion, Equity, and Diversity in Engineering Student Center (IEDE Student Center) (<https://engineering.wisc.edu/about/inclusion-equity-and-diversity/>) exists to affirm a sense of belonging for all students, striving to create a welcoming and supportive campus community for students from historically underrepresented groups in the field of engineering, including women, students from racially and ethnically diverse backgrounds, LGBTQ+, first generation, and socioeconomically disadvantaged student populations.

In partnership with units across campus, the IEDE Student Center develops and implements student-centered programs and services that foster an inclusive campus community; it offers a space and place for intercultural and cross-cultural engagement as well as opportunities for students to make meaningful connections with others. The center provides students a comfortable place to study with access to computers and printers, and a place to be their genuine and authentic selves.

The IEDE Student Center also works closely with the UW-Madison chapters of the National Society of Black Engineers (NSBE), Queer and Trans Engineers (QTE), Society of Hispanic Professional Engineers (SHPE), and the Society of Women Engineers (SWE).

Undergraduate Programs

The Leaders in Engineering Excellence and Diversity (LEED) Scholars is a community and scholarship program providing students with monthly student development meetings, adjunct academic advising, peer mentoring and networking, personal and career development, leadership and community outreach opportunities, and engagement in social justice. LEED Scholars events are open to any student interested in engaging in a diverse learning community.

High School Programs and Outreach

The IEDE Student Center, with the help of undergraduate student leaders, offers engineering outreach visits on campus and at high schools. In the summer, we offer residential and virtual programs for high school students, including the Engineering Summer Program and Engineering Tomorrow's Careers (Society of Women Engineers).

Other Programs

The IEDE Student Center develops programs designed to promote a welcoming climate that celebrates the diversity of all students in the College of Engineering. The variety of events and projects includes History Month Lunch and Learns, Student Success Summit, and the Diversity in Engineering Welcome events.

COMPUTER-AIDED ENGINEERING CENTER

The Computer-Aided Engineering Center (CAE) (<http://www.cae.wisc.edu>) provides computing resources, facilities, and services for students, faculty, and staff in the college. The broad range of services and resources include:

- Windows and Linux computer classrooms;
- open labs which have Windows and Linux workstations;
- industry-standard engineering software;
- software and services available on students' personal computers;
- reliable file storage for coursework;
- customer consulting and help-desk services.

The CAE walk-in help desk is located at 1410 Engineering Drive; 608-262-5349; submit contact form: <https://www.cae.wisc.edu/contact/>. For more information, see the CAE website (<http://www.cae.wisc.edu>).

WELLNESS SERVICES

University Health Service's mental health (<https://www.uhs.wisc.edu/mental-health/>) providers understand the complexities of student life and offer an open, safe, and confidential environment to help students through issues that may interfere with their development, well-being, and academic productivity.

UHS's no-cost mental health services include individual, couple/partner, group counseling, outreach programming, and stress management. They also offer 24/7 crisis services. Psychiatry services are also available for medication management.

University Health Services/Mental Health Services
333 East Campus Mall
Madison, WI 53715-1384
608-265-5600

REGISTERED STUDENT ORGANIZATIONS

The College of Engineering has just as many opportunities outside the classroom as it does inside. CoE students have access to a wide variety of groups, organizations, and services that will help make their time on campus memorable and unique. There are more than 50 engineering affiliated student organizations (<https://engineering.wisc.edu/student-life/student-organizations/>) on campus. Students can get involved in organizations that range from competitive, such as teams that build and race vehicles or concrete canoes, to service-oriented, honors societies, and student government. The College of Engineering also offers many discipline-related student chapters of professional organizations that will

connect students with their peers and also help them make professional contacts.

EMERGING LEADERS IN ENGINEERING

The Emerging Leaders in Engineering (ELE) program is the College of Engineering's undergraduate leadership program.

ELE is a one-year cohort-based program created by engineering students, for engineering students. Students who graduate from the ELE program are awarded a formal leadership certificate by the UW-Madison Center for Leadership and Involvement.

Those who are admitted into the program receive individual leadership coaching, join our young alumni mentorship program, create a personal/professional development plan, work on local technical issues in our community, and receive course credit for their experience. Any student going into their sophomore year is encouraged to apply.

For more information please contact Angela Kita (amkita@wisc.edu) or visit our website (<https://engineering.wisc.edu/student-life/student-organizations/student-leadership-program/>).