EXPLORE OUR CAMPUS

The College of Engineering includes eight buildings—seven of which you can visit on this tour. Our eighth building, the historic Water Science and Engineering Building, is located toward the east end of the UW-Madison campus on the shore of Lake Mendota, the largest of Madison’s four lakes. It’s adjacent to our most popular student union, the Memorial Union, and its lively, expansive lakefront terrace.

While this walking tour will give you a look at some of our awesome engineering spaces, our faculty, staff and students are the people who bring this collection of buildings to life and make our engineering campus a welcoming, supportive, fun community in which you can work, learn, discover, grow—and make a difference.

Consider the College of Engineering as the next step in your educational journey—and in the meantime, enjoy your journey through our campus!
ENGINEERING HALL

Centrally located on our engineering campus, Engineering Hall is where you can find the College of Engineering dean and other engineering leaders. Faculty, staff and some students in the Departments of Chemical and Biological Engineering, Civil and Environmental Engineering, and Electrical and Computer Engineering also have offices, laboratory space, and classrooms throughout this building.

As you stand in front of Engineering Hall, look slightly to the right and locate a wide bank of doors set back from the building's facade. Enter there; immediately turn left and head into the building's atrium.

Signature spaces
- **The atrium.** This bright, colorful area is a true gathering space for our faculty, staff, students and visitors, who use it for everything from individual study and team meetings to a cozy place to relax or savor a snack.
- **1610 and 1800 Engineering Hall.** Located right off the main atrium, these are the largest of our three traditional lecture halls. You might find classes like statics, dynamics, physics and others in these rooms, as well activities ranging from design presentations to various events.
- **Engineering Career Services.** Located right next to the Badger Market, ECS connects thousands of engineering students annually with employers looking to fill internship, co-operative and full-time positions.
- **“Flexible” small- and medium-sized classrooms.** Many of these are located in the 2300 hallway of the building and, when they’re not in use, are great study or group meeting spaces.

Wisconsin ideas: What else happens here?
Within this building, our faculty, staff and students conduct research that leads to advances in many areas. For example:
- Improvements in transportation systems and safety
- Longer-lasting asphalt for our roads
- New, more sustainable ways to generate energy
- Faster, smarter, flexible electronic devices
- Better tools and techniques to help diagnose and treat disease
Exit Engineering Hall through the same doors you used to enter the building. Turn left (west) and walk down Engineering Drive toward the Engineering Centers Building. You might notice that the building’s three-story windows resemble a ship’s prow—a nod to the seventh college dean’s love of sailing. Enter the building through the double doors in the “prow.” You’ll be in the building’s soaring atrium.

ECB, as we call it, opened in 2002 and is the newest building on our engineering campus. Faculty, staff and some students in the Department of Biomedical Engineering have offices, laboratory space and classrooms throughout this building.

Signature spaces

• **The TEAM Lab.** From the atrium, look over the railing to the space below. The Technical Education and Manufacturing Lab occupies all of the space you see, and beyond. In fact, it offers nearly 14,000 square feet of modern machine shop space in which engineering students can bring their ideas to life.

• **Biomedical Engineering Design Labs.** Occupying space adjacent to the atrium, these facilities offer biomedical engineering undergraduates, who take a design course every semester of their education, a collaborative place to work.

• **Myers Student Automotive Center.** Our very well-equipped student “auto garage” is located on north end of the building’s main floor, near the front entrance. It is home to several of our students’ competitive vehicles, including snowmobiles, Formula cars, Baja cars and more.

Wisconsin ideas: What else happens here?

Within this building, our faculty, staff and students conduct research that leads to advances in areas such as electronics, manufacturing, medical devices, understanding diseases, and improving human health.
Exit the Engineering Centers Building through the same doors you used to enter the building. You’re heading right next door to the stately Mechanical Engineering Building, or as we call it, ME. Enter through the main entrance, which is directly across from the engineering parking garage, then walk straight ahead and up the short set of stairs into the building’s central atrium.

Opening in 1930, this building is among our oldest buildings. However, thanks to a top-to-bottom renovation and center addition completed in 2007, it actually is among our newest facilities. And as its name suggests, the building is home to faculty, staff and students in the Department of Mechanical Engineering, as well as those in the Department of Industrial and Systems Engineering.

**Signature spaces**

- **Max Carbon Radiation Science Center.** You might be surprised to learn that a nuclear reactor is among our college’s facilities. Unlike utility companies’ nuclear reactors, ours isn’t built to generate power. Rather, it’s used solely for research and education in important areas related to radiation science.

- **The driving simulator.** This unique laboratory includes a full-size Ford Fusion and a 240-degree screen with surround sound. It enables our researchers to better understand what factors contribute to safe—and unsafe—driving.

**Wisconsin ideas: What else happens here?**

Within this building, our faculty, staff and students conduct research that leads to advances in many areas. For example:

- Improvements that lead to higher-performance engines for everything from lawnmowers and boat motors to cars and heavy-duty trucks
- New environmentally friendly materials for making plastic and 3D-printed products
Here is an overview of your journey throughout our engineering campus. Feel free to explore more on your own!
Exit the Mechanical Engineering Building through the doors you entered. Take a left and walk east on Engineering Drive until you reach Engineering Mall, the grassy area across the street from Engineering Hall. Stop when you get to the mall and turn toward the tallest building on our campus, the Engineering Research Building, or ERB.

At 274 feet tall, ERB opened in 1969 and initially was built to fill a demand for research space on our campus. Today, it is home to our Department of Engineering Physics and we use most of the building for office space, although there are a few research laboratories still located in the building.

Signature spaces
- **URANIA.** one of UW-Madison’s two major fusion experiments. Formerly known as Pegasus, it’s located in an expansive space in the building’s lower level. The faculty, staff and students who work with this unique experiment collaborate with researchers around the world in a quest to shape the future of fusion energy.
- **Engine Research Center laboratories.** Also located in the lower level are various facilities that contain engines for research in areas that include combustion, emissions and fuel efficiency, among others.

Wisconsin ideas: What else happens here?
Faculty, staff and students located in ERB study a wide range of topics. As one example, they research how materials behave in applications that include aerospace, geology, nuclear energy, medicine and many others.
The Materials Science and Engineering Building, or MS&E, is the red brick building behind ERB. From Engineering Mall, enter MS&E through the doors located beneath the skybridge between it and ERB and walk straight ahead to the center of the building. You’ll see several of our microscopy facilities.

Dedicated in 1910 and added to the National Register of Historic Places in 1985, the MS&E Building began life on campus as the U.S. Department of Agriculture Forest Products Laboratory. When a new, larger forest products lab opened in 1931, the College of Engineering took over the building, which today is home to our Department of Materials Science and Engineering.

Signature spaces

• The Materials Science Center. This unique shared research facility contains a variety of highly precise and specialized microscopes capable of viewing materials at the atomic level. It is a resource not only for our engineers, but also for researchers from academia and industry.

Wisconsin ideas: What else happens here?

The materials scientists and engineers who work and learn in this building help create, understand and improve the materials that make up almost everything we use or enjoy today—from electronics to energy and construction to medicine.
Exit MS&E the way you entered and head toward Engineering Mall. Take the sidewalk that bisects the mall to 1410 Engineering Drive. You’ll see Máquina, “the machine,” along the way. Formerly used as a fountain, the sculpture was installed in 1994 and represents the strong connection between art and engineering. Today, it’s a popular picture spot, particularly for cap-and-gown-clad grads. Continue on to 1410 Engineering Drive, and pause outside. You’re looking at the “new” half of the building.

Like many campus buildings, 1410 began its life in 1939, first as the State Highway Lab, and later, as an engineering facility. The building’s new half was constructed in the 1980s to accommodate an ever-growing College of Engineering. Today, almost the entire building is a hub for students: Among its offerings, it houses our undergraduate academic advisors, our Diversity Affairs Office, space for many of our 50+ student organizations, study areas, and a computer lab.

**Signature spaces**

- **The Computer-Aided Engineering (CAE) computer labs.** Located in two adjacent main-floor rooms, these spacious labs contain nearly 80 computers—all stocked with software specifically for engineering students’ use.
- **The undergraduate advising suite.** More than 15 advisors provide valuable guidance and support that helps our undergraduates keep their education on track.

**Wisconsin ideas: What else happens here?**

In a word, support. Many of the services located in this building are designed to help our students succeed—whether that be through technological resources, academic advising, support for students traditionally underrepresented in engineering, or space for individual study or group meetings.
Head back to Engineering Drive, then turn left. When you reach Randall Avenue, cross it (carefully). You’ll see Union South—one of UW-Madison’s two student unions and a popular and lively hangout for engineers. Wendt, the last engineering building on our walking tour, is right next to the union. So turn right (south) and walk partway down Randall Avenue, then turn left on the sidewalk between the two buildings. Take the stairs to the right to enter Wendt.

Dedicated in 1976 as the Kurt F. Wendt Library (in honor of Wendt’s 44 years on the engineering faculty, including 18 years of service as college dean), the building recently has undergone an extensive transformation to ensure it serves the needs of current and future engineering students: It is home to our 12,000-square-foot makerspace; small, medium and large high-tech classrooms and study spaces; and the college’s Undergraduate Learning Center, which provides valuable academic support resources important in our students’ success. (And if you’re wondering where all of the books went, little-used volumes are in storage, while active collections moved to Steenbock Library, and many other resources now are online.)

**Signature spaces**

- **First floor:** The Kohler Innovation Visualization Studio. A new space that enables its users to truly interact with designs and data, the studio features VR technology and a giant interactive screen.
- **Second (main) floor:** The college makerspace. An innovator’s playground, the makerspace is 12,000 square feet of high-tech tools—along with people who can help engineering students learn to use them—for turning almost any idea into a reality.
- **Third floor:** Classrooms and study space. Loaded with technology and designed with the flexibility to accommodate many modes of teaching, learning and studying, these light-filled rooms come in small, medium and large sizes.
- **Fourth floor:** The Undergraduate Learning Center, or ULC. We want to help our students achieve their educational goals, and this important team offers tutoring and other academic support resources. It’s also a place where students can study, form study groups, and discuss engineering concepts and problem-solving strategies with each other and with the tutors.
BE A BADGER ENGINEER

We hope this walking tour is the first of many steps on your path to becoming an engineer. If you’d like to continue your journey, here are a few ways you can do just that.

Learn more about the College of Engineering:
Register to attend an engineering information session at visitbucky.wisc.edu

Talk with an advisor about what a UW-Madison engineering education is like:
Email coeadvising@engr.wisc.edu to connect with one of our academic advisors.

Or, if you want to be an engineering student, apply today!
Visit www.wisc.edu/admissions/apply.