ARCHITECTURAL AND CIVIL ENGINEERING

Architectural engineers translate designs into buildings that work—safer structures, smarter systems, and greener and more sustainable environments—and make great buildings better. Civil engineers tackle a broader set of problems ranging from transportation to construction and management.

Illinois Tech’s Armour College of Engineering has a 129-year legacy of educating engineering innovators. Our accredited Architectural Engineering (AE) and Civil Engineering (CE) degree programs will prepare you for a career as a design engineer, consulting engineer, construction manager, structural engineer, and more. Attending an accredited institution is a requirement for licensure—an essential for professional success. You’ll graduate ready to excel as a knowledgeable specialist in related areas of building design and analysis.

AE AND CE SPECIALIZATIONS AT ILLINOIS TECH

Receive your bachelor’s degree while specializing in an area of interest to you.

- Building Mechanical and Energy
- Building Electrical and Lighting
- Structural Engineering
- Geotechnical Engineering
- Construction Engineering and Management
- Electrical and Illumination
- Fire Protection and Life Safety
- Transportation Engineering
- Fire Protection and Life Safety

RESEARCH—EVEN AS AN UNDERGRAD!

Our faculty conduct cutting-edge research with real-world applications—and there are countless opportunities for undergraduates to participate.

Associate Professor Brent Stephens (a.k.a. “Dr. Building”) runs the Built Environment Research Group, in which he and his students conduct research on energy efficiency and indoor air quality in buildings. They are currently engaging in EPA-funded research that is measuring and modeling the amount of outdoor pollutants such as ozone and particulate matter that infiltrate into homes across the country. Stephens maintains an unoccupied apartment unit in graduate housing for his research called STUDIO-E, or the Suite for Testing Urban Dwellings and their Indoor and Outdoor Environment.

Maximize Your Education

Illinois Tech’s accelerated master’s degree programs allow you to receive both your bachelor’s and master’s degrees in as few as five years.

- B.S. Architectural Engineering/M.E. Architectural Engineering
- B.S. Architectural Engineering/M.E. Construction Engineering and Management
- B.S. Architectural Engineering/M.E. Structural Engineering
- B.S. Civil Engineering/M.E. Construction Engineering and Management
- B.S. Civil Engineering/M.E. Environmental Engineering
- B.S. Civil Engineering/M.E. Geotechnical Engineering
- B.S. Civil Engineering/M.E. Structural Engineering
- B.S. Civil Engineering/M.E. Transportation Engineering

Engineering at Illinois Tech is ranked #24 in the country among public and private universities for the return on investment for our graduates. (PayScale 2018; calculated after aid)
LEARN TO INNOVATE IN IPROS

In Illinois Tech’s signature *Interprofessional Projects (IPRO) Program*, you’ll work with students from various majors to solve real-world problems. Recent architectural and civil engineering-oriented IPROs include:

- Developing insights that support energy-efficiency improvement strategies for varied built environments
- The future of smart grids and improving the reliability of sustainable power
- Integrating hydroponics into the workplace environment
- Developing sustainable urban agriculture facilities in a South Side Chicago community
- Sustainable home design: Race to Zero competition

**TAKE A VIRTUAL TOUR**

Visit us now! Log on to [iit.edu/virtualtour](http://iit.edu/virtualtour) to view a cool online virtual tour of our buildings, labs, open spaces, and more!

"Illinois Tech was my first choice when applying to college. It is exciting to be studying something that is so important and in demand, but it’s also rare since it combines multiple disciplines into one field of study.

I had an internship at an architectural engineering firm where I primarily worked with mechanical engineers, and occasionally with electrical engineers. This internship let me get a better idea of how everything comes together in industry, and understand which parts of architectural engineering I enjoyed the most and wanted to focus on.

I hope to design sustainable and energy-efficient systems that make buildings more comfortable to live and work in. I would love to be able to incorporate renewable energy into projects whenever possible, and to utilize recycled materials and environmentally conscious construction practices."

— Lindsey Rice  
(Architectural Engineering/Architecture Minor ’17)  
Portland, Oregon

**Distinctive Education**

At Armour College of Engineering, we integrate innovative thought, entrepreneurship, creativity, and design with engineering theory, research, and practice. You will get the chance to work on projects that are normally open only to graduate students—and have the opportunity to apply what you have learned in the classroom to some of the most complex problems facing society today.

We enhance our college’s already strong curriculum with lecture series, forums, interactive problem solving, professional site exploration, and team-intensive engineering projects focusing on four themes: *water, health, energy, and security*. As you take part in these theme opportunities, your activity is tracked in your own personal online portfolio for use as a supplement to your résumé or as additional material for your application to graduate school.

Having a complete understanding of the research and development process will also help ensure your success after you graduate. Our *Armour R&D Program* includes two programs: *Program for Undergraduate Research Education (PURE)*, which focuses on research, and *Mentored Innovation and Development (MIND)*, which focuses on developing research-based technology. Both programs aim to give undergraduate students a hands-on experience with research and development that is unique to Armour College.

All distinctive education programs are designed to give you a competitive edge and tangible experience in global issues. Be confident in the fact that when you graduate from Armour College of Engineering, you will already be working on relevant and impactful solutions.