Looking at the world through the lens of innovation

A Tradition of Excellence

Armour College of Engineering was founded in 1893 as Armour Institute, dedicated to preparing students from all backgrounds for careers as engineers in a rapidly changing, technology-driven society. We are proud to say we are as committed to that mission today as we were more than a century ago.

Continuing this tradition, we pride ourselves with staying on the cutting edge of new technologies, teaching methods, and research. Armour College aligns our graduate engineering education with evolving national priorities. Our full-time faculty of more than 90 engineers and scientists is engaged in fundamental and applied research that result in the development of new technologies with global impact.

Armour is committed to excellence in education, reflected in its technology-focused approach that also includes the entrepreneurial and ethical aspects of engineering. Our graduate programs are designed to provide insight into technology's overall impact on society. Through rigorous and relevant research and study, you will graduate prepared to innovate and lead.

• Armour has been educating civil engineers for more than 100 years.
• The youngest department in Armour, the department of Biomedical Engineering is nationally recognized for research in medical imaging, cell and tissue engineering, and neural engineering.
• IIT's department of Electrical and computer Engineering counts Martin cooper (EE '50, M.S. '57)—inventor of the mobile handheld cell phone—among its distinguished alumni.
• Prominent alumni of the department of Mechanical, Materials, and Aerospace Engineering are members of the national Academy of Engineering.

Major areas of priority and growth are advanced materials, bioengineering, energy and sustainability, networks and communications, and transportation engineering. Armour College has externally sponsored research awards that exceed $55 million.
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ENGINERIE RESEARCH

The college maintains internationally recognized research in the following areas:

- Aerospace engineering
- Bioengineering
- Energy
- Power
- Sustainability
- Systems engineering
- Advanced materials
- Transportation
- Construction management
- Infrastructure management systems
- Environmental engineering
- Image and signal processing
- Material science and engineering
- Mechanical engineering
- Medical imaging
- Networks and communications
- Analog and digital electronics
- Computer engineering
- Smart mobility systems and robotics
- Cell and tissue engineering
- Neural engineering
- Sustainable manufacturing
- Robotics
- Fuel Cells
- Neural Prostheses

IIT's Main Campus is home to the nation's first Perfect Power smart microgrid, serving as a laboratory for student and faculty research.

Wanger Institute for Sustainable Energy Research (WISER)

WISER's goal is to improve energy efficiency, enhance power reliability and security, minimize pollution, and continue the decarbonization of the global energy system in the most cost-efficient way possible. IIT researchers believe that the endpoint of this evolution will be electrification of most stationary energy uses with such high-tech renewables as photovoltaic, solar-thermal, and wind energy, and the use of hydrogen as the dominant transportation fuel in fuel-cell-powered electric vehicles. Housed within WISER, the Robert W. Galvin Center for Electricity Innovation pursues groundbreaking work in the generation, transmission, distribution, management, and consumption of electricity.

Pritzker Institute of Biomedical Science and Engineering

The Pritzker Institute enhances biomedical science and engineering research activities at IIT through partnerships with prestigious laboratories, including those at Argonne National Laboratory and the University of Chicago. The centers within Pritzker Institute include the Medical Imaging Research Center, the Center for Integrative Neuroscience and Neuroengineering Research, the Engineering Center for Diabetes Research and Education, the Center for Molecular Study of Condensed Soft Matter, and the Biophysics Collaborative Access Team.

DEGREE PROGRAMS

Master’s Degrees

- Architectural Engineering
- Biomedical Engineering
- Biomedical Imaging and Signals
- Chemical Engineering
- Civil Engineering
- Construction Engineering and Management
- Electrical and Computer Engineering
- Electricity Markets
- Environmental Engineering
- Food Process Engineering
- Geotechnical Engineering
- Geoenvironmental Engineering
- Mechanical and Aerospace Engineering
- Materials Science and Engineering
- Manufacturing
- Power Engineering
- Public Works (Infrastructure Engineering and Management)
- Structural Engineering
- Telecommunications and Software Engineering
- Transportation Engineering
- VSLI and Microelectronics

Master of Science Degrees

- Biomedical Engineering
- Chemical Engineering
- Civil Engineering
- Computer Engineering
- Computer Engineering and Electrical Engineering
- Electrical Engineering
- Environmental Engineering
- Food Process Engineering
- Computer Science/Chemical Engineering (Ph.D.)
- Mechanical and Aerospace Engineering
- Materials Science and Engineering
- Manufacturing Engineering

Doctoral Degrees

- Biomedical Engineering
- Civil Engineering
- Computer Engineering
- Electrical Engineering
- Environmental Engineering
- Mechanical and Aerospace Engineering
- Materials Science and Engineering

Certificate programs are offered in 30-plus areas. Online courses are available.
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- Construction management
- Infrastructure management systems
- Urban systems
- Environmental engineering
- Image and signal processing
- Material science and engineering
- Mechanical engineering
- Medical imaging
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Educating a New Generation of Engineers

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