A Focus on Technology. The Drive to Innovate.

Nothing has the power to create lasting change in our world like technology. It is the gateway to innovation, makes possible the discovery of elusive subatomic particles, and provides global communication tools for even the remotest populations. It entertains and educates, gives us more precise directions from point A to point B, and allows us to look inside the body and past the stars.

Technology. The game changer in a changing global world.

The Intersection of Technology and Innovation is Here. In Chicago. At IIT.

IIT physics faculty-researchers are participating in the neutrino experiment at Daya Bay in China.

Martin Cooper (EE ’50, M.S. ’57) invented the handheld cellular phone. Today, more than 6 billion cell phones are in use worldwide.

Rajeev Chandrasekhar (M.S. CS ’88) was part of the Intel team that developed the Pentium chip. Today, each chip manufactured is engraved with his initials.

MMAE Professor Boris Pervan is working with the Federal Aviation Administration and United States Navy to develop differential GPS solutions that can guide aircraft more accurately.

IIT’s Medical Imaging Research Center is leading multi-million-dollar National Institutes of Health-funded research that is exploring modern medical-imaging techniques such as thermoacoustic imaging.
Driven to Innovate. Hardwired to Change.

Illinois Institute of Technology was founded in 1890 as a university that would prepare students from all backgrounds for meaningful roles in a rapidly changing industrial society. In the 1930s, the founders of the Bauhaus brought to Chicago and IIT a bold spirit of innovation—and new ways of thinking—that helped shape our distinctive type of education.

Today, more than 67,000 alumni continue this legacy of improving the human condition through science and a focus on technology—from Nobel Laureate Susan Solomon (CHEM ’77), who discovered the role of CFCs in ozone layer depletion, to entrepreneur Victor Tsao (M.S. CS ’80), founder of Linksys.

Technology is in our name, and that means it is important in what we do as a university. It means IIT is committed to innovation and providing students a rigorous, relevant, distinctive, technology-focused education.

Examples of our commitment to innovation are evident throughout the university. IIT’s Main Campus is home to the nation’s first Perfect Power smart microgrid, serving as a laboratory for student and faculty research. Our Fluid Dynamics Research Center houses several large wind tunnels and is a U.S. Air Force Office of Scientific Research National Center of Excellence. IIT Institute of Design is recognized worldwide for its cutting-edge, user-centered methodologies.

Our focus on innovation permeates all academic majors. So does our integration of creativity and analysis. You will be immersed in an academic setting that will prepare you to think boldly and act thoughtfully—whether your major is humanities or engineering, and whether you aim to work in the private sector or continue on for your Ph.D.
Our Campuses
IIT consists of five campus locations throughout the Chicago area. Main Campus, just a few minutes from downtown, is on the National Register of Historic Places and was named as one of “America’s most beautiful college campuses” by Forbes magazine. Our Downtown Campus and Institute of Design campuses are steps from major banks, law firms, corporations, and nonprofits. Rice and Moffett campuses offer convenient access for west-suburban commuter students.

IIT also offers many courses via IIT Online, making an anytime, anywhere education possible for working professionals.

Chicago: Your Kind of Town
Chicago is one of the world’s great cities. With the third-largest population in the United States, it is the home to people from nearly every country you can name. Chicago is globally renowned for its world-class architecture, museums, restaurants, and shopping. There is always something to do, from attending a Broadway-quality play to watching a pro ball game to dining in nearby Chinatown to walking along the stunning lakeshore.

Chicago-Style Access
As a center for industry and commerce, the Chicago area is incredibly diverse. Corporations from United Airlines to McDonald’s to Boeing to Google have headquarters and offices here. It is the home to several major medical centers and research laboratories. Top architecture firms and law offices are based here, too. As a graduate student, you will find countless opportunities to intern, conduct research, work, learn, and grow.

CHICAGO. CONNECTIONS WILL TAKE YOU THERE.
Our Graduate Students

Students from 100 countries around the globe attend IIT. Their reasons for pursuing graduate studies here are as varied as the students themselves. Some chose IIT because our technology focus makes us different than other schools. For some it was access to a top program, IIT’s entrepreneurship initiatives, or the opportunity to work in an emerging discipline.

All IIT graduate students have one thing in common: they are smart and creative. They are not only open to new ideas—but they also want to be the ones who create the big ideas of the future. You will graduate prepared to innovate and lead.

- 3,208 graduate students (master’s)
- 39% of IIT students are graduate students
- 1,487 master’s / 80 doctoral degrees awarded (2010–11)

Be in Good Company

IIT alumni have changed the world. And they live in more than 128 countries around the world. The contributions of our graduate alumni are visible everywhere.

- Martin Cooper (EE ’58, M.S. ’57) invented the mobile handheld cellular phone.
- Rajeev Chandrasekhar (M.S. CS ’88) was part of the Intel team that invented the Pentium chip.
- Victor Tsao (M.S. CS ’80) invented Linksys, which he later sold to Cisco for $500 million.
- The Honorable Ilana Diamond Rovner (LAW ’86) is judge of the Seventh Circuit, U.S. Court of Appeals.
- John P. Calamos Sr. (ECON ’63, M.B.A. ’70) heads the $34 billion global asset management firm Calamos Investments.
- Art Paul (Graduate Design) was the founding art director of Playboy.
- Mead Killion (M.S. MATH ’70) is credited with a number of “world’s first” titles for auditory products, including the world’s first “tubephone” insert earphone.

Here is what just a few graduate students had to say about IIT:

“THE POWER ENGINEERING PROGRAM HERE IS ONE OF THE BEST IN THE NATION.”

“It had the best program in the major I wanted.”

“Practical approach. Rigorous curriculum.”

“IIT was more quantitative in nature and offered courses specific to trading/markets.”

“I was looking for the best possible education.”

Your IIT education will provide you the training and relevant skills to join the league of some of the world’s great game changers. Make your mark.
Our Faculty

Health behavior. Cyber security. Cloud computing. Financial engineering. Tall buildings. The smart grid. IIT faculty are conducting outcomes-based work in areas of increasing importance. They are advancing their fields—and changing our lives.

Our faculty are also excellent teachers. In 2011, four IIT faculty members were the recipients of prestigious National Science Foundation CAREER Awards, given to the most-promising young teacher-scholars.

IIT faculty represent more than 26 countries and bring to the university a unique worldview that comes from experience living and working in and among other countries and cultures.

Learn from someone who will challenge you to ask “why not?”

- 90% of full-time instructional faculty hold doctorate or terminal degrees
- 397 full-time/317 part-time instructional faculty

Weslynne Ashton
Assistant Professor of Environmental Management and Sustainability
Stuart School of Business
B.S. Environmental Engineering, Massachusetts Institute of Technology
M.S., Ph.D. Environmental Science, Yale University

As director of the Industrial Ecology in Developing Countries program at Yale, Weslynne Ashton experienced one of her most significant accomplishments in Bangalore, India, where she worked with the nonprofit organization Resource Optimization Initiative. She is currently collaborating with IIT Stuart Associate Professor Nasrin Khalili on a project that will create pathways to cleaner production in the Americas through integration of business, engineering, and environmental education.

Jennifer Kang-Mieler
Associate Professor of Biomedical Engineering
Armour College of Engineering
B.A. Mathematics, M.S. Applied Mathematics, Ph.D. Biomedical Engineering, Northwestern University

Jennifer Kang-Mieler was instrumental in establishing the Department of Biomedical Engineering at IIT as one of its first new faculty members. Her research focuses on retinal hemodynamics and cellular function, drug delivery, and biomaterial surface areas, and she has established significant relationships with the University of Chicago in educational and research areas.

She supervised the physical design and layout of four new teaching laboratories, has developed graduate courses for the department, and supervises several Ph.D. students.

Joseph Orgel
Associate Professor of Biology and Biomedical Engineering
College of Science
B.Sc. (Honors), Ph.D., University of Stirling (Scotland)

Joseph Orgel has made several significant contributions to the understanding of collagen structure and is an acknowledged leader in the fields of extracellular matrix structure and fiber diffraction. He is leading a research team that is studying how protein sequences persisting in dinosaur bone may offer clues for understanding closely related collagen forms found in humans. The team’s findings, published in the science and medicine journal PLoS ONE and featured in Nature, could usher in a new era of collagen-based medical applications.

Miles Wernick
Motorola Chair Professor, Electrical and Computer Engineering
Armour College of Engineering
B.A. Physics, Northwestern University; Ph.D. Optics, University of Rochester

Miles Wernick heads IIT’s Medical Imaging Research Center (MIRC), which is on the cutting edge of developments in medical imaging. MIRC focuses on three broad areas of research: developing new imaging devices and procedures, improving upon existing images using mathematical approaches, and using advanced computer algorithms for the computerized analysis of medical images and automated diagnoses. In addition, MIRC is now applying techniques developed in the medical imaging arena to a new field called predictive policing. Professors Wernick and Yongyi Yang recently secured a $3 million grant for IIT and the Chicago Police Department from the United States Department of Justice.
Research at IIT
IIT’s research focus can be summed up in one word: innovation. Whether implementing technology deployment in the emerging world or developing new forms of big-data storage, IIT research emphasizes bold solutions in areas of increasing global significance.

The word “interdisciplinary” is used frequently in higher education. At IIT, interdisciplinary research is a university strategic priority. Research themes focusing on energy and sustainability, and improving the quality of life, among others, transcend individual majors and encourage innovation across boundaries.

Research is central to the graduate student’s experience, and we take that seriously. Our cutting-edge facilities include ample room for student laboratory space. IIT’s six libraries offer access to more than 1.8 million volumes and more than 100 online research databases. IIT’s Chicago location, and corporate and research partnerships, provide countless opportunities for research and work.

As a co-op on the IBM Start Emerging Technologies team, Harsha Krishnareddy (M.S. ITM ’11) designed components of BigSheets, a new IBM platform for managing big-data sets such as those gathered by Twitter.

IIT Centers and Institutes
IIT’s 31 centers and institutes provide graduate students opportunities to work alongside faculty from various academic departments on projects in emerging areas.

Major research initiatives include

- **ROBERT W. GALVIN CENTER FOR ELECTRICITY INNOVATION**
  focusing on the generation, transmission, distribution, management, and consumption of electricity
  - IIT’s Main Campus is home to Chicago’s first research-based advanced wind turbine.

- **INSTITUTE FOR FOOD SAFETY AND HEALTH (IFSH)**
  a partnership of government, industry, and academic researchers focusing on food safety, food defense, and nutrition
  - World-class research at IFSH is facilitated by a new BSL-3 laboratory biocontainment pilot plant.

- **PRITZKER INSTITUTE OF BIOMEDICAL SCIENCE AND ENGINEERING**
  an umbrella organization that enhances the biomedical science and engineering research activities at IIT
  - Faculty from several areas of science and engineering collaborate at the Pritzker Institute, which houses the first engineering center devoted to the treatment and cure of diabetes.

- **WANGER INSTITUTE FOR SUSTAINABLE ENERGY RESEARCH (WISER)**
  an umbrella organization that joins energy and sustainability research and educational activities across the colleges and institutes at IIT
  - WISER’s interdisciplinary graduate-research initiatives include energy/environment/eco-nomics, environmental engineering, power engineering, environmental management and sustainability, and sustainable enterprise.

University Technology Park at IIT
University Technology Park at IIT is a state-of-the-art research park comprising laboratories, office buildings, and an Incubator to assist science and technology startups and growing businesses. Many of these companies provide IIT students a unique opportunity to obtain hands-on experience through internships and jobs—including work alongside faculty-entrepreneurs.

Six IIT faculty members have founded companies that are or have been based at UTP.

IIT Research Institute
IIT’s research affiliate, IIT Research Institute, is an independent, not-for-profit contract research organization focusing on the life sciences.

In fiscal year 2011, research funds awarded to IIT totaled more than $45 million.
Armour College has significantly increased externally sponsored research over the last three years, receiving awards exceeding $55 million. Major areas of priority and growth are: advanced materials, bioengineering, energy and sustainability, networks and communications, and transportation engineering.

Armour College of Engineering

IIT Armour College of Engineering has a long and proud history of educating engineers who are innovators and leaders. Today, our research strengths are aligned with national priorities and contribute to knowledge creation and invention.

Our roster of more than 90 full-time faculty members are engaged in fundamental and applied research leading to the development of new technologies of global impact. The college maintains internationally recognized research in the following areas: bioengineering, energy, power, sustainability, systems engineering, advanced materials, transportation, construction management, infrastructure management systems, urban systems, environmental engineering, image and signal processing, medical imaging, networks and communications, analog and digital electronics, computer engineering, smart mobility systems and robotics, cell and tissue engineering, neural engineering, and sustainable manufacturing.

Master of science and doctoral students conduct independent-minded, creative research in these areas. Professional master's programs in emerging areas provide students concrete competence and marketable skills such as entrepreneurship and enhance their careers as industry professionals.
Our Master of Landscape Architecture program is the only professional M.L.A. in Chicago. IIT's historic and current curriculum in tall building design includes a slate of studios and elective coursework. Collaboration with the Council on Tall Buildings and Urban Habitat furthers this concentration.

Chicago-Kent College of Law

Legal education at IIT Chicago-Kent College of Law is scholarly yet pragmatic, broad-based yet personalized, demanding yet anything but rigid. The energy at our law school derives partly from our proximity to Chicago’s fast-paced legal community and partly from the caliber of the people here and their passion for their work. Faculty scholarship fuels our academic enterprise and brings a constant supply of fresh ideas to the classroom. Classes at Chicago-Kent are challenging and intensely engaging. Our low student-to-faculty ratio promotes day-to-day engagement with some of the most influential scholars and teachers in the nation.

Students receive a solid grounding in classical legal studies along with the professional skills required to put that knowledge to use. You’ll learn to think critically and broadly—and be prepared for success in your legal career.

- IIT is the first university in the U.S. to offer the Master's in Intellectual Property Management and Markets, a unique, interdisciplinary degree program.
- 97 percent of IIT Chicago-Kent graduates who took the bar exam in July 2011 for the first time received passing scores, exceeding the pass rates of graduates from Illinois’ eight other law schools and besting the state pass rate for first-time takers by seven points.

College of Architecture

IIT College of Architecture emphasizes study in architectural and landscape architectural design and technology, and rigorous application of critical thought and intellectual inquiry. Graduate students benefit from the college’s unique traditions and circumstances—its Miesian legacy as a preeminent school of modernism, its location in Chicago, and its connections to progressively minded, global practitioners. And the college’s rigorous design philosophy—one that is reinventing modernism for the twenty-first century—prepares students to practice architecture anywhere in the world.

At IIT, you will be immersed in a program of studies that intertwines analytical skills, design, technology, and practical knowledge. Core training in structures and mechanical/electrical engineering are synthesized in studio projects. Students also benefit from the college’s relationship with top Chicago firms through both faculty and alumni relationships.
Innovation is at the heart of what we do and teach. Faculty participate in leading international research at CERN, Daya Bay, and other global sites; lead innovative studies in materials and biological structure with the Advanced Photon Source at Argonne; advance high-performance computing in the college’s Scalable Computing Software Laboratory; and more.

The college is the former home of Nobel Laureate in Physics Leon Lederman; the great mathematician Karl Menger; and alumna Susan Solomon (CHEM ’77), the first person to explain that man-made chlorofluorocarbons were destroying the ozone layer. Our graduates have included leaders, innovators, and entrepreneurs—from Victor Tsao (M.S. CS ’80), the founder of Linksys, to James Lemke (PHYS ’59), creative technologist and serial entrepreneur.

College of Science

IIT College of Science (effective Fall 2013; formerly College of Science and Letters) offers graduate students from throughout the world access to resources of a major research university with the collaboration and personal attention usually associated with a small, private institution of higher education. At the heart of our education is discovery—research that changes how we look at our world and expands our knowledge of worlds beyond our own. The college’s research endeavors are grounded in basic principles and modern technology, with a special emphasis on interdisciplinary inquiry and collaboration. Our departments cultivate a sense of community. You will work closely with your advisor. Our programs are rigorous, giving you a rock-solid foundation in the discipline, and they’re relevant, giving you context in which the knowledge might be put to real-world use.

This unique combination will have special value not only in addressing known problems but also equipping you to face the unknown problems of the future.

Institute of Design

IIT Institute of Design is dedicated to humanizing technology and improving the process of innovation by developing and teaching a more methodological and human-centered approach to design. Students learn advanced design methods and frameworks such as problem framing, user research, and prototyping to help them address the large-scale, ambiguous problems facing companies, government, and civic organizations.

Faculty and students come from a wide variety of fields—including design, engineering, architecture, business, the humanities, and a range of social sciences. All full-time faculty engage in research funded by industry, government, and foundations, and adjunct faculty are design professionals who work at the leading edge of practice.

Through executive education programs, annual conferences, and sponsored research, the school shares design methodologies with people and organizations around the world to help them build better products, services, and environments.

In 1991, with support from the GE Foundation, the Institute of Design created the country’s first Ph.D. in design program.

The Institute of Design is perennially ranked #1 in the United States by various agencies.

Since its founding as the New Bauhaus in 1937, the Institute of Design has grown into the largest full-time graduate-only design program in the U.S.
Lewis College of Human Sciences

IIT Lewis College of Human Sciences provides graduate students an education that emphasizes research focused on applied experiences. The programs instill within students an understanding of the need for evidence-based intervention, practice, and education, and help students maximize opportunities for professional functioning in industry, health care, academia, and post-doctoral training.

Your studies will feature evidence-based approaches, allowing you to work alongside respected faculty members who are leaders in their fields. Lewis’s Rehabilitation and Industrial/Organizational programs rank among the top in the United States. Clinical and Rehabilitation programs are nationally accredited. Technical communication is the sine qua non of today’s professional global service economy. Whether you are interested in business or mental health, policy or industry, research or practice, Lewis College of Human Sciences will help you achieve your professional and personal goals.

School of Applied Technology

IIT School of Applied Technology offers distinctive master’s programs designed primarily for prospective and current industrial, IT, or food safety and technology professionals. In hands-on, project- and laboratory-based programs, students learn theory, application, and business practices from full-time faculty and industry professionals with significant industry, academic, and teaching experience.

Our graduate curriculum is at the leading edge of technology and is updated frequently to ensure relevance. Students learn to evaluate the issues, create a solution, present their findings, and defend their views—and have a project portfolio that can be used as a strategic advantage in job interviews. You’ll graduate prepared to be an innovator, technology manager, or business entrepreneur who can lead the future.

• Master’s degree programs may be completed part-time or full-time through daytime and evening coursework. With the exception of the Cyber Forensics and Security program, many courses and some programs may be completed via online courses.

• The Institute for Food Safety and Health offers graduate programs in Food Safety and Technology and Food Process Engineering.
IIT Stuart School of Business

IIT Stuart School of Business focuses on the analytical, quantitative, creative, and interpersonal skills that business professionals need for success in the next economy. As the only business school in Chicago within a technology-focused university, Stuart is uniquely positioned to train students to excel in organizations where technology, sustainability, analytics, and innovation are key components of strategic competitiveness.

Stuart faculty hail from around the globe, with expertise in business as well as professional and scientific areas such as engineering, economics, physics, and mathematics. Our distinctive curriculum teaches students how to think about problems from multiple perspectives, how to formulate creative, innovative solutions, and how entrepreneurship can serve as a driving force of change. You’ll graduate prepared for what lies ahead.

Academic Programs by Area of Study

- Applied Mathematics
- Architectural Engineering *
- Architecture
- Biological Engineering
- Biology *
- Biomedical Engineering
- Biomedical Imaging and Signals *
- Business Administration (M.B.A.)
- Chemical Engineering *
- Chemistry
- Civil Engineering *
- Clinical Psychology
- Computer and Electrical Engineering (dual degree) *
- Computer Engineering *
- Computer Science *
- Computer Science and Chemical Engineering
- Computer Science for Teachers *
- Construction Engineering and Management *
- Design
- Design Methods
- Electrical Engineering *
- Electrical and Computer Engineering *
- Electricity Markets *
- Environmental Engineering *
- Environmental Management and Sustainability
- Law
- Family Law *
- Finance
- Food Process Engineering
- Food Safety and Technology
- Geoenvironmental Engineering *
- Geotechnical Engineering *
- Health Physics *
- Industrial/Organizational Psychology
- Industrial Technology and Operations *
- Information Architecture
- Information Technology and Management
- Integrated Building Delivery
- Intellectual Property Management and Markets
- Landscape Architecture
- Management Science
- Manufacturing Engineering *
- Marketing Analytics and Communication
- Materials Science and Engineering *
- Materials and Chemical Synthesis *
- Mathematical Finance
- Mechanical and Aerospace Engineering *
- Molecular Biochemistry and Biophysics *
- Network Engineering *
- Personnel and Human Resources Development *
- Physics *
- Power Engineering *
- Psychology
- Public Administration (M.P.A.)
- Public Works *
- Rehabilitation Counseling *
- Rehabilitation Counselor Education
- Structural Engineering
- Technical Communication
- Technical Communication and Information Design
- Telecommunications and Software Engineering *
- Transportation Engineering *
- VLSI and Microelectronics *

* indicates online study is available

It is the intention of Illinois Institute of Technology to act in accordance with all regulations of the federal, state, and local governments with respect to providing equality of opportunity in employment and in education, insofar as those regulations may pertain to IIT. IIT prohibits and will act to eliminate discrimination on the basis of race, color, religion, national origin, gender, sexual orientation, age, disability, or veteran status.

Illinois Institute of Technology is accredited by the Higher Learning Commission of the North Central Association of Colleges and Schools.