



GRADUATE PROGRAMS

ILLINOIS TECH

Discover. Create. Solve.

#44 BEST VALUE SCHOOLS

—U.S. NEWS & WORLD REPORT 2023



SMART.
SOPHISTICATED.

SERIOUS.



Excellence doesn't happen overnight. At **Illinois Tech** innovation and achievement is a story more than 130 years in the making.

It began in 1890, when a giant of Chicago's industry established a university to educate talented people capable of harnessing technology and leading the city into the great industrial era of the early twentieth century.

Since then Illinois Tech has embraced the same pioneering spirit of invention and discovery, working to liberate the collective power of difference to advance technology and progress for all. Our community of exceptionally smart graduate students and faculty is driven to rethink the known and bring new ideas into the world. As a result our graduate alumni have changed the course of human history, giving us the cell phone, the Pentium chip, Linksys, the telestrator, architectural marvels, and many other innovations that have revolutionized the world.

As a graduate student at Illinois Tech, you will surround yourself with passionate people who share your quest for discovery. Here you will find a one-of-a-kind graduate experience—one that offers hands-on learning, expert guidance, and world-class resources. You will explore what motivates you and create your own excellence.

Changing the world is serious work.

Join us.





WHAT MAKES A LEGACY?

When you step foot on **Illinois Tech's** landmark campus, one of the first things you might notice is our lack of ivy-covered walls. Illinois Tech is a university rich with tradition, but we offer a new vision for what constitutes academic and research excellence in the twenty-first century. It is less about just remembering the past and more about upending the status quo. It is not about simply breaking down walls, but rather shattering their very purpose and constructs. It is about redefining words like innovation at a time of extraordinary growth and invention.

Our history is strong, but we don't need ivy to tell you we have been around for a while. Our story is rooted in our accomplishments—both yesterday and today—and our legacy is told in our countless alumni who continue to **change the world.**



VISIT US IN PERSON

Contact us to schedule a visit and tour of our Mies Campus, which includes meetings with faculty members, current students, and admissions representatives.

go.iit.edu/grad-visit

VISIT US ONLINE

Illinois Tech also offers an online campus tour of our buildings, labs, and open spaces.

iit.edu/admissions-aid/visit-and-tour/virtual-tour



“One of America’s *Most Beautiful* College Campuses”

—FORBES



ALUMNI INNOVATOR: FROM ILLINOIS TECH TO AMAZON ALEXA

At **Illinois Tech** you're inspired to dream as much as you are empowered to do.

Graduate alumnus **Rohit Prasad** (M.S. EE '99), senior vice president and head scientist for Amazon Alexa, says Illinois Tech's excellent faculty mentorship fostered his growth and helped him follow his passions.

"I was fortunate to have a great graduate school adviser who trained me up for industry and what was going to be my passion," Prasad says. "I thank him for all the rigor that he instilled in me in terms of scientific advances—how it's not just about having the best algorithm you can think of, but how to prove it with sound methodology, and whether it works in a real-world setting. That preparation, of not just being an academic, but actually making your inventions matter in the real world, I learned from my adviser."

This personalized attention, coupled with Illinois Tech's state-of-the-art facilities and close relationships with industry partners, allowed Prasad to thrive. Now he is living his passions by inventing the future of AI.

"It's critical as a budding student, whether you're an undergraduate student or a graduate student, to have a passion," Prasad says. "If you follow your passion you're ultimately going to make the right decisions that fulfill your dreams."

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OUTCOMES. A HISTORY OF EXCELLENCE.

Illinois Tech graduate students earn advanced degrees that have significant value in the marketplace. Illinois Tech alumni are evidence of this return on investment. Our graduate alumni have changed the world and highlight how Illinois Tech is making good on our vision to shape the future.

- **Marty Cooper (EE '50, M.S. '57)** Inventor of the cell phone
- **Rajeev Chandrasekhar (M.S. CS '88)** Part of the team that developed Intel's Pentium chip
- **Lois Graham (M.S. ME '49, Ph.D. '59)** The first woman in the United States to earn a doctorate in mechanical engineering
- **Marvin Camras (EE '40, M.S. '42)** Pioneer in magnetic recording technology
- **David Edwards (Ph.D. CHBE '87)** Harvard University professor and founder of Le Laboratoire, a cultural center fostering experiments at the frontier of science
- **Ilana Diamond Rovner (LAW '66)** Judge on the U.S. Court of Appeals for the Seventh Circuit
- **Leonard Reiffel (EE '47, M.S. '48, Ph.D. '53)** Inventor of the telestrator (used to highlight sports plays on TV)
- **Victor Tsao (M.S. CS '80)** Founder of Linksys
- **Sam Karlin (MATH '44, M.S. '45)** National Medal of Science recipient who contributed to software used to first map DNA sequences
- **Tim Zamb (BIOL '68, Ph.D. '78)** Head of AIDS Vaccine Design and Development Laboratory of the International AIDS Vaccine Initiative
- **John P. Calamos Sr. (ECON '63, M.B.A. '70)** Founder/chairman/CIO of Calamos Investments
- **Phyllis Lambert (M.S. ARCH '63)** Design visionary behind New York's Seagram Building and founder of the Canadian Centre for Architecture
- **Virgil Abloh (M.ARCH. '06)** Men's artistic director for Louis Vuitton
- **Kwame Raoul (LAW '93)** Illinois Attorney General
- **Alireza Khaligh (Ph.D. EE '06)** University of Maryland professor with more than \$5 million in research grants and an expert for the National Science Foundation's Energy, Power, Control, and Networks Program
- **YooJung Ahn (M.D.M. '06)** Waymo head of design

\$77,848

the average starting salary for 2017–2020 graduates



86.4%

of our masters students have secured either a **full or part-time job** or are continuing their education within six months

ILLINOIS TECH IS A VIBRANT INTERNATIONAL CAMPUS WITH A GRADUATE STUDENT BODY THAT REPRESENTS 33 STATES AND 54 COUNTRIES.



Illinois Tech's Mies Campus is just minutes south of Chicago's Loop and less than a mile from Lake Michigan and the city's 18 miles of stunning beachfront.



Illinois Tech is proud of our hometown, and we are a product of our city's culture. We value hard work, ambition, community, bold thinking, and rebelliousness. **Just like the great global city of Chicago.**

Chicago offers graduate students an unparalleled environment to study, conduct research, and explore a diverse range of intellectual and professional pursuits. From medicine to financial markets and from high-tech startups to nonprofits, Chicago provides countless pathways in life. The city's burgeoning tech ecosystem feeds growth in multiple sectors including science, law, management, energy, and marketing and creative industries.

Chicago is also a friendly and charming city of neighborhoods, rich with cultural attractions including museums, music venues, parks, and nature, plus professional sports venues and many other opportunities to explore something new.

Chicago is a living laboratory for architecture study. From landscapes including the Alfred Caldwell Lily Pool to iconic buildings such as 875 North Michigan Avenue (formerly John Hancock Center), Willis Tower, and Marina City, many notable built spaces in Chicago are affiliated with current or former Illinois Tech students, alumni, faculty, or firms.

CHICAGO IS:

- Ranked as the **#13 global technology innovation hub**—KPMG 2020
- Home to **36 Fortune 500 companies, 100-plus startups and incubators, and 34 percent women-owned startups**
- **#1 among "Best Large Cities in the U.S."**—Conde Nast Traveler Readers' Choice Awards
- **Top 10 U.S. city for tech careers**—CIO magazine

OUR HOMETOWN IS AN ARCHITECTURAL LIVING LABORATORY

ACHIEVE YOUR GOALS.

Illinois Tech's seven colleges offer study options that give you maximum flexibility to achieve your goals. Illinois Tech offers traditional master's and doctoral programs (thesis required), professional master's programs (no thesis required), dozens of certificate specializations, dual-degree plans, and short-term executive and professional packages. Some or all of your graduate study may be completed online.



“If you want to get a grad-level degree in biology and you are looking for a school where you will get personalized attention and research opportunities, Illinois Tech is a great option. There are several labs that accept new grad students every year and offer a good variety of disciplines and projects, so you can find what you like best.”

Adriana Mañas Nuñez

(M.A.S. Biological Engineering '14, Ph.D. Biology '18)
Madrid

“The structure of academic programs at Illinois Tech at all levels requires working with students from other academic disciplines. The diversity of the campus also creates opportunities to engage with people from different walks of life, and from my experience, working in inclusive spaces is encouraged by the faculty.”

Michael Anthony DeAnda

(Ph.D. Technology and Humanities '19)
El Paso, Texas



ARMOUR COLLEGE OF ENGINEERING

BIOMEDICAL ENGINEERING

- Ph.D. in Biomedical Engineering
- Master of Science in Biomedical Data Science and Modeling
- Master of Science in Biomedical Engineering
- Master of Biomedical Imaging and Signals
- Master of Science in Medical Devices and Biomaterials
- Master of Engineering in Biomedical Engineering

CHEMICAL AND BIOLOGICAL ENGINEERING

- Ph.D. in Chemical Engineering
- Master of Science in Chemical Engineering
- Master of Biological Engineering
- Master of Engineering in Energy Systems
- Master of Pharmaceutical Engineering
- Master of Chemical Engineering

CIVIL, ARCHITECTURAL, AND ENVIRONMENTAL ENGINEERING

- Ph.D. in Architectural Engineering
- Ph.D. in Civil Engineering
- Ph.D. in Environmental Engineering
- Master of Science in Architectural Engineering
- Master of Science in Civil Engineering
- Master of Science in Environmental Engineering
- Master of Science in Engineering Management, Project Management Track
- Master of Engineering in Architectural Engineering
- Master of Engineering in Urban Systems Engineering
- Master of Engineering in Construction Engineering and Management
- Master of Engineering in Energy Systems, Energy Conservation, and Buildings Track
- Master of Engineering in Environmental Engineering
- Master of Engineering in Public Works (Infrastructure Engineering and Management)
- Master of Engineering in Structural Engineering
- Master of Engineering in Transportation Engineering

ELECTRICAL AND COMPUTER ENGINEERING

- Ph.D. in Computer Engineering
- Ph.D. in Electrical Engineering
- Master of Science in Computer Engineering
- Master of Science in Computer Engineering and Electrical Engineering
- Master of Science in Electrical Engineering
- Master of Biomedical Imaging and Signals
- Master of Electrical and Computer Engineering
- Master of Computational Engineering
- Master of Computational Engineering, Optimization, Machine Vision, and Decision Making Track
- Master of Computer Engineering in Internet of Things
- Master of Cybersecurity Engineering
- Master of Electricity Markets
- Master of Engineering in Artificial Intelligence, Computer Vision, and Control
- Master of Engineering in Energy Systems, Energy Transmission, and Markets Track
- Master of Network Engineering
- Master of Power Engineering
- Master of Telecommunications and Software Engineering
- Master of VLSI and Microelectronics

INDUSTRIAL TECHNOLOGY AND MANAGEMENT

Master of Industrial Technology and Operations

MECHANICAL, MATERIALS, AND AEROSPACE ENGINEERING

- Ph.D. in Materials Science and Engineering
- Ph.D. in Mechanical and Aerospace Engineering
- Master of Science in Advanced Manufacturing
- Master of Science in Autonomous Systems and Robotics
- Master of Science in Manufacturing Engineering
- Master of Science in Materials Science and Engineering
- Master of Science in Mechanical and Aerospace Engineering
- Master of Engineering in Energy Systems, Energy Generation, and Sustainability Track
- Master of Engineering in Manufacturing Engineering
- Master of Engineering in Materials Science and Engineering
- Master of Engineering in Advanced Manufacturing
- Master of Engineering Management
- Master of Engineering in Mechanical and Aerospace Engineering
- Master of Engineering in Wireless Communications and Computer Networks

CHICAGO-KENT COLLEGE OF LAW

- Juris Doctor (J.D.)
- Master of Laws (LL.M.)—six discipline options
- Master of Taxation
- Master of International Intellectual Property Law
- Master of Technological Entrepreneurship
- Master of Trial Advocacy for International Students (LL.M.)
- Master of U.S., International, and Transnational Law (LL.M.)
- Juris Doctor/Master of Laws in Financial Services Law (Joint Degree)
- Juris Doctor/Master of Laws in Taxation (Joint Degree)
- Juris Doctor/Master of Business Administration (Dual Degree)
- Juris Doctor/Master of Science in Finance (Dual Degree)
- Juris Doctor/Master of Science in Environmental Management and Sustainability (Dual Degree)
- Juris Doctor/Master of Public Policy and Administration (Dual Degree)
- Doctor of Juridical Science (J.S.D.)

COLLEGE OF ARCHITECTURE

- Ph.D. in Architecture
- Master of Science in Architecture
- Master of Architecture
- Master of High Performance Buildings
- Master of Landscape + Urbanism
- Master of Architecture/Master of Landscape Architecture (Dual Degree)

COLLEGE OF COMPUTING

APPLIED MATHEMATICS

- Ph.D. in Applied Mathematics
- Master of Science in Applied Mathematics
- Master of Science in Computational Decision Science and Operations Research
- Master of Applied Mathematics
- Master of Data Science
- Master of Financial Technology
- Master of Mathematical Finance

COMPUTER SCIENCE

- Ph.D. in Computer Science
- Master of Artificial Intelligence
- Master of Cybersecurity
- Master of Science in Computational Decision Science and Operations Research
- Master of Science in Computer Science
- Master of Computer Science
- Master of Data Science
- Master of Telecommunications and Software Engineering

INFORMATION TECHNOLOGY AND MANAGEMENT

- Master of Science in Applied Cybersecurity and Digital Forensics
- Master of Cyberforensics and Security
- Master of Information Technology and Management
- Master of Science in Information Technology and Management

INSTITUTE OF DESIGN

- Ph.D. in Design
- Master of Design
- Master of Design Methods
- Master of Design/M.B.A. (Dual Degree)
- Master of Design/Master of Public Policy and Administration (Dual Degree)

LEWIS COLLEGE OF SCIENCE AND LETTERS

BIOLOGY

- Ph.D. in Biology
- Ph.D. in Molecular Biochemistry and Biophysics
- Master of Science in Biology
- Master of Science in Biology for the Health Professions
- Master of Science in Molecular Biochemistry and Biophysics

CHEMISTRY

- Ph.D. in Chemistry
- Master of Material Chemistry
- Master of Science in Chemistry
- Master of Science in Analytical Chemistry
- Master of Science in Sensor Science and Technology

FOOD SCIENCE AND NUTRITION

- Ph.D. in Food Science and Nutrition
- Master of Science in Food Process Engineering
- Master of Science in Food Safety and Technology
- Master of Science in Nutrition Science
- Master of Food Process Engineering
- Master of Food Safety and Technology

HUMANITIES

- Ph.D. in Technology and Humanities
- Master of Science in Technical Communication and Information Architecture
- Master of Science in Technology and Humanities

PHYSICS

- Ph.D. in Physics
- Master of Science in Applied Physics
- Master of Science in Physics
- Master of Health Physics

PSYCHOLOGY

- Ph.D. in Psychology with Specialization in Clinical Psychology
- Ph.D. in Psychology with Specialization in Industrial-Organizational Psychology
- Ph.D. in Rehabilitation Counseling Education
- Master of Science in Clinical Counseling
- Master of Science in Industrial-Organizational Psychology
- Master of Science in People Analytics
- Master of Science in Rehabilitation and Mental Health Counseling
- Master of Science in Rehabilitation and Mental Health Counseling with Advanced Standing

STUART SCHOOL OF BUSINESS

- Ph.D. in Management Science
- Accelerated M.B.A.
- Master of Business Administration
- Master of Design/M.B.A. (Dual Degree)
- Master of Financial Technology
- Master of Science in Clinical Counseling
- Master of Science in Finance
- Master of Science in Management Science
- Master of Science in Marketing Analytics
- Master of Science in Environmental Management and Sustainability
- Master of Public Policy and Administration
- Master of Technological Entrepreneurship
- M.B.A./Juris Doctor (Dual Degree)
- M.B.A./Master of Design (Dual Degree)
- M.B.A./Master of Science in Environmental Management and Sustainability (Dual Degree)
- M.B.A./Master of Science in Finance (Dual Degree)
- M.B.A./Master of Science in Marketing Analytics (Dual Degree)
- M.B.A./M.P.P.A. (Dual Degree)
- M.P.P.A./Master of Design (Dual Degree)
- M.P.P.A./Juris Doctor (Dual Degree)
- M.S. Finance/Juris Doctor (Dual Degree)
- M.S. in Environmental Management and Sustainability/Juris Doctor (Dual Degree)

Illinois Tech also offers more than 50 certificates in business, science, engineering, computing, and the humanities.

Each of our colleges is accredited by the leading accreditation authority. Illinois Tech is accredited by the Higher Learning Commission.

For detailed information on these degree programs, including certificate courses, visit admissions.iit.edu/graduate/programs.

Facilities for food safety include the Biosafety Level 3 (BSL-3) laboratory, one of the first in the country specifically designed to study the behavior of pathogens and virulent organisms in real-world food processing conditions



EXPLORE.
DO.

Illinois Tech has an extensive network of state-of-the-art facilities across our four Chicago-area campuses that are focused on research and innovation. Just a few of these facilities include:

- **Idea Shop** 13,000-square-foot rapid-prototyping lab with 3D printers, CNC milling machines, wood cutters, and a staff dedicated to helping students transform ideas into products
- **Ed Kaplan Family Institute for Innovation and Tech Entrepreneurship** An innovation hub that is home to the Institute of Design, media labs, collaboration spaces, emerging technologies, and maker spaces, and where the entrepreneurial mindset is instilled in our students through programming focused on startups, venture capital, and much more
- **Robert B. Kyts Design Studio and Machine Shop** Nationally known prototyping and machining provider for small-quantity custom projects, specializing in model building, wind tunnel modeling, one-of-a-kind prototypes, and special projects
- **Architecture Materials Lab** 10,000-square-foot lab with tools and machinery for working with wood, metal, and plastics, in addition to a laser lab and 3D printing
- **Libraries** A five-library network offering a broad array of research journals, staff who provide research and writing assistance, laptop rental, 3D printers, and many other resources, with separate libraries for law, architecture, food safety, and ethics scholarship and training
- **Center for Synchrotron Radiation Research and Instrumentation** Operates the BioCAT and MR-CAT X-ray beamlines at the Advanced Photon Source at Argonne National Laboratory
- **Financial Research Lab** Dual-monitor Bloomberg work stations that allow screen sharing from Bloomberg terminals
- **Facilities in the College of Computing** focused on information technology and management include sophisticated labs for embedded systems, real-time communications, and more
- **Judge Abraham Lincoln Marovitz Courtroom** Modeled on the best courtrooms and trial advocacy training facilities in the country, incorporates the latest computer and audiovisual technologies in a traditional setting



Elevate Your Education

At Illinois Tech, we're focused on empowering our students to become innovators and leaders through advanced technical education and impactful hands-on experiences that ensure that they graduate with the twenty-first century skills needed to launch a great career. Our one-of-a-kind Elevate program guarantees that our students take part in outside-the-classroom experiences such as internships, research, study away, and competitions. It also provides personalized academic and career mentorship, all in pursuit of ensuring that our students graduate career-ready.



CHICAGO-KENT
COLLEGE OF LAW

A+ Intellectual Property Law—preLaw Magazine (2022)
#7 Trial Advocacy, #12 Intellectual Property Law, #39 Legal Writing, and #13 Part-time Law Program—U.S. News & World Report (2023)



Interdisciplinary collaboration permeates Illinois Tech's academic and research programs. At Illinois Tech's **Wanger Institute for Sustainable Energy Research (WISER)**, more than 80 faculty members are currently involved in energy and sustainability research and educational activities across the colleges and institutes at the university.

EXPERIENCE.

EXPOSURE.

Typically your graduate years are when you hone your expertise by focusing on a relatively narrow field or topic. That may be appropriate for some areas of study, but for some students it can be unnecessarily rigid. Moreover, it ignores the reality that in today's workplace you will need dynamic skills and relevant experience across various disciplines in order to be an effective problem solver who can navigate the complex layers of any evolving field.

Illinois Tech's 80-plus graduate degrees are distinctive by design. Innovation, invention, technology, and entrepreneurship are woven throughout our programs. You will gain valuable exposure to relevant and hands-on work within your chosen program, combined with unique **interdisciplinary pathways** that allow you to work across traditional silos.



MORE INTERDISCIPLINARY PATHWAYS

Below are a few of Illinois Tech's academic and research strengths with appeal to students across multiple majors. Our graduate advisers and faculty members can assist you in determining which major and department will best suit your needs.

- Architecture and Design
- Artificial Intelligence
- Big Data
- Cloud Computing
- Cybersecurity
- Energy and Sustainability
- Engineering Innovation
- Entrepreneurship
- Finance
- Food Science
- Health and Medicine
- Human and Digital Sciences
- Imaging
- Information Technology
- Manufacturing
- Nanotechnology
- Quantitative Analysis
- Robotics
- Transportation
- Science and Technology



Work Across Boundaries

**INTERDISCIPLINARY PATHWAY:
ENERGY AND SUSTAINABILITY**

ENERGY AND SUSTAINABILITY

Illinois Tech is a pioneer in this area, which is just one example of a general field of interest for many students. Outside of specific degree programs, students can take part in a wide range of interdisciplinary work to expand their knowledge base and explore relevant topics within a field of interest. This includes research centers, faculty research assistance, certificate programs, free lectures and seminars, and more opportunities. The same is true for many pathways, from design to computational science to health.

PROGRAMS

Any engineering degree, Biology, Chemistry, Physics, Industrial Technology and Management, Law, Sustainability Management, Architecture, Design

CERTIFICATES

Programs include topics such as water and wastewater treatment, current energy issues, electricity markets, sustainable enterprise, indoor air quality, and more

PARTNERSHIPS

Illinois Tech has a strong network of partners in the academic, research, and public and private sectors. The university's longstanding relationship with Argonne National Laboratory includes faculty and graduate student research in a range of energy and sustainability domains, from alternative fuels to the microgrid.

RESEARCH INSTITUTES AND CENTERS

Wanger Institute for Sustainable Energy Research; Grainger Power Electronics and Motor Drives Lab; Built Environment Research Group; Center for Sustainable Enterprise, Energy/Environment/Economics; Institute for Science, Law, and Technology

It may come as no surprise that **Illinois Tech**—home of the country's first industrial nuclear reactor and the university that operates the nation's first functional microgrid—is known for advanced research that is moving the needle toward significant innovation.

Through our academic departments, and our research centers and institutes, we offer graduate students the opportunity to participate in meaningful, hands-on, and boundary-breaking research. Illinois Tech's research partnerships with locally based national laboratories such as Argonne and Fermilab, leading medical schools, tech incubators, and government organizations provide our graduate students unparalleled experiences and training at world-class facilities.

Our professors include editors of scientific journals, entrepreneurs, influential design and architecture practitioners, academic society fellows, and thought leaders in numerous fields. As important, our faculty are excellent teachers, uniquely regarded for their accessibility to students and for their commitment as advisers and mentors. You will receive personalized guidance during your graduate course of study.

“The structure of academic programs at Illinois Tech at all levels requires working with students from other academic disciplines. Illinois Tech is at the forefront of research and applied technology. The list of faculty achievements is impressive as well as motivational. I've found the real-world experience of faculty to be extremely useful throughout my course of study. The availability of world-class facilities also sets Illinois Tech apart. The Robotics Lab in particular stands out as a unique and interesting facility that encourages technical know-how and possibility.”

Joshua Kazanova
(M.A.S Cyber Forensics and Security '18)
Chicago

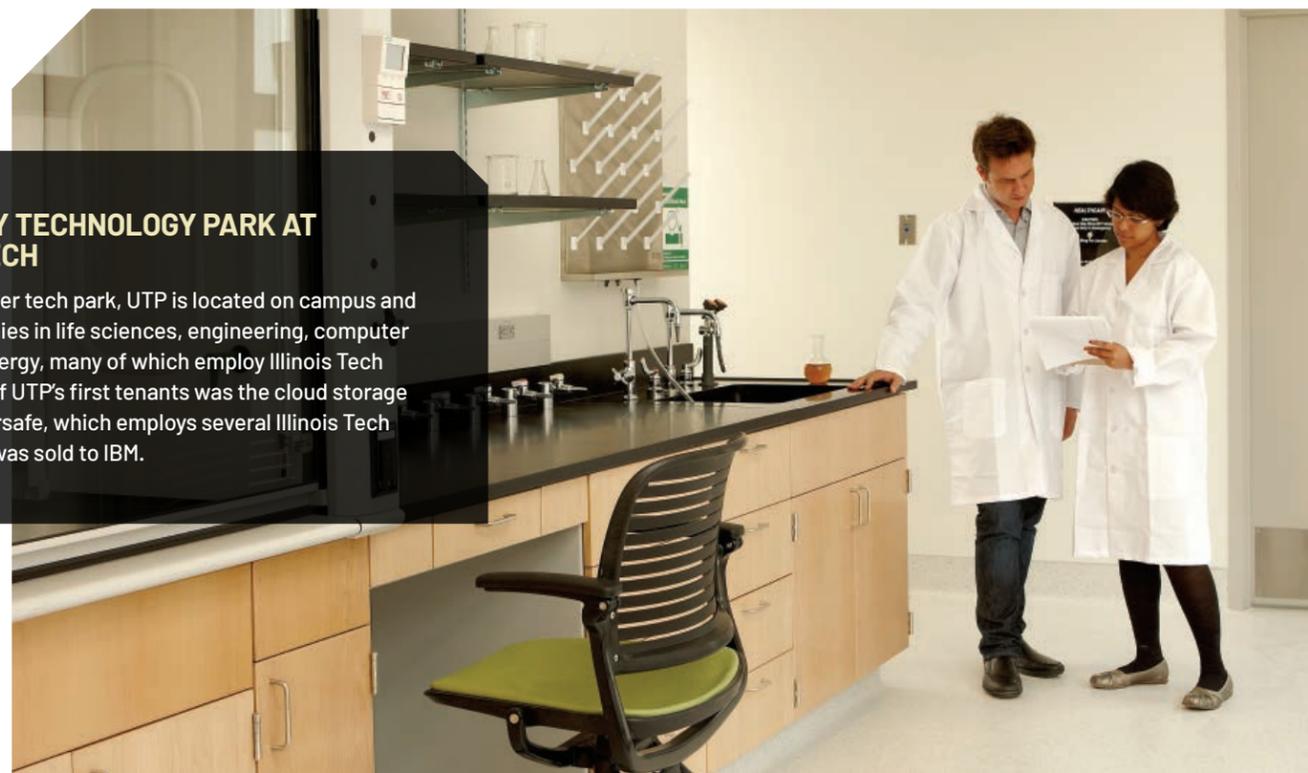


FACULTY & RESEARCH.

ACCESS & IMPACT.

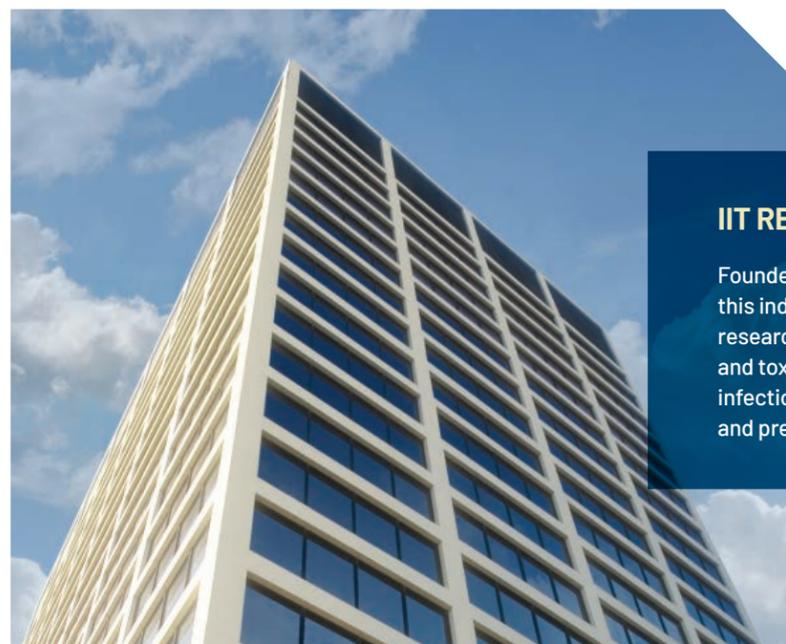
UNIVERSITY TECHNOLOGY PARK AT ILLINOIS TECH

Chicago's premier tech park, UTP is located on campus and houses companies in life sciences, engineering, computer science, and energy, many of which employ Illinois Tech students. One of UTP's first tenants was the cloud storage company Cleversafe, which employs several Illinois Tech graduates and was sold to IBM.



IIT RESEARCH INSTITUTE

Founded in 1936 as the research arm of the university, this independent, not-for-profit preclinical contract research organization specializes in preclinical safety and toxicology, inhalation toxicology, biodefense, and infectious disease studies, and evaluates the efficacy and preclinical safety of cancer therapeutics.

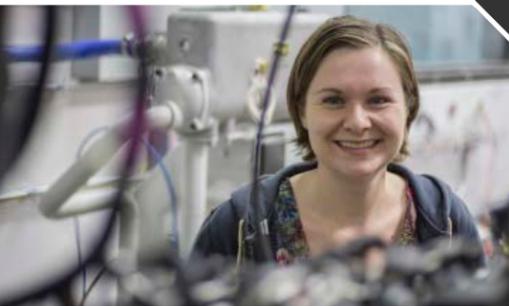


Mahesh Krishnamurthy, professor of electrical and computer engineering, and **Eun-Jeong Lee**, professor of psychology, engage in a form of community-based participant research that incorporates end users in the product design—and especially the redesign—process in order to improve the quality of life for people with disabilities.



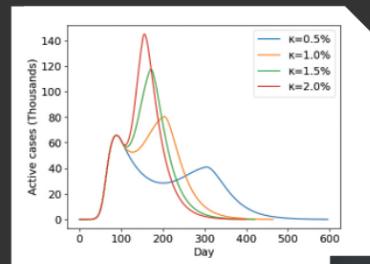
MADE IN CHICAGO. **CHANGING THE WORLD.**

Illinois Tech is committed to collaboration that blurs traditional boundaries, and this is evident in both our graduate programming and our faculty research. Many of our faculty-experts work across departments—and often in partnership with businesses, government entities, and community groups—to conduct meaningful work that makes a measurable, positive contribution to society.



CARRIE HALL, MAHESH KRISHNAMURTHY, AND MATTHEW SPENKO, ARMOUR COLLEGE OF ENGINEERING

An Illinois Tech team has earned a spot as one of only 13 teams to participate in the prestigious EcoCAR EV Challenge sponsored by the United States Department of Energy, General Motors, and MathWorks. This team of engineering professors will lead students in a four-year project to design, build, refine, and demonstrate the potential of their advanced propulsion system implemented in a 2023 Cadillac LYRIQ. They will have four years to engineer a next-generation fully electric vehicle that deploys connected and autonomous vehicle features to implement energy-efficient and customer-pleasing features while meeting the decarbonization needs of the automotive industry.



SANJIV KAPOOR, COLLEGE OF COMPUTING



A cautious pace of reopening communities and economies is necessary to control the spread of the coronavirus during the COVID-19 pandemic, according to new research. Sanjiv Kapoor, professor of computer science, developed a social distancing based Susceptible, Infectious, or Recovered (SIR) model studying the tradeoffs between the timing of removing these restrictions and increases in infection rates both in Illinois and New York state. Results show dramatic spikes in infection rates in both states if restrictions are lifted weeks from the peak of new cases, if too many people are released at a time, or if the daily rate of population release exceeds 1 percent after peak.



WESLYNNE ASHTON AND NASRIN KHALILI, STUART SCHOOL OF BUSINESS AND IIT INSTITUTE OF DESIGN

In the project Pathways to Cleaner Production in the Americas, supported by the Department of State, professors Weslynn Ashton and Nasrin Khalili (Ph.D. ENVE '92) collaborated on a multinational effort to address issues preventing a move toward sustainability in Latin America and the Caribbean. Backed by more than \$1 million in funding, the project researched low demand for environmentally friendly industrial-development strategies and the limited number of skilled professionals to implement such strategies. The project team trained hundreds of students across the region in interdisciplinary skills and methods while also exposing 136 micro, small, and medium-sized enterprises to cleaner practices. The researchers looked at everything from how market-based incentives and access to capital spur smaller enterprises to adopt cleaner production practices, to the design of educational models that will adequately prepare individuals who can support sustainable development.



TOMOKO ICHIKAWA, IIT INSTITUTE OF DESIGN

Led by Tomoko Ichikawa, associate teaching professor and an expert in communication design, a group of Illinois Tech students worked with UChicago Medicine to redevelop patient materials for cancer patients undergoing external beam radiation therapy. Typically, these materials are written at an advanced reading level and feature little to no imagery. By extensively studying visual narrative styles, the team zeroed in on an illustrative and communicative style that mirrors that of a graphic novel. The result was materials that are more approachable and thus better help anxious patients navigate the treatment process.



ARATHI GOWDA, TIARA HUGHES, AND DAWVEED SCULLY, COLLEGE OF ARCHITECTURE

Arathi Gowda, Tiara Hughes, and Dawveed Scully are College of Architecture adjunct professors and architects at the Chicago architecture firm of Skidmore, Owings, and Merrill where they specialize in performative design, urban design, and urban planning, respectively. Together, they lead the studio "The Green(line) New Deal," which challenges students to design architectural interventions at various points along Chicago's Green Line that recognize and address the link between climate change and social injustice.

95% OF ILLINOIS TECH FACULTY MEMBERS HOLD THE HIGHEST DEGREES IN THEIR DISCIPLINE.

Join us. *Apply today!*

iit.edu/admissions-aid/apply

ILLINOIS INSTITUTE OF TECHNOLOGY

GRADUATE ADMISSION AT ILLINOIS TECH

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Perlstein Hall, Room 206
Chicago, IL 60616

grad.admission@iit.edu
312.567.3020 (office)
312.567.3138 (fax)

www.iit.edu/admissions-aid/graduate-admission

