Graduate Programs at Illinois Tech

2023

2024
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 power of collective 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. 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.

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Changing the world is serious work. Join us.
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 such as 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.

“One of America’s most beautiful college campuses.”
—Forbes

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

Apply
» iit.edu/admissions-aid/apply
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 artificial intelligence.

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

The mean starting salary for 2022 graduates.

$87,258

91.8% of our graduate students secured either a full or part-time job or were continuing their education within six months of graduation (among 2022 graduates reporting).

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. CHE ’87) Harvard University professor and founder of Le Laboratoire, a cultural center fostering experiments at the frontier of science
Elena 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 ’66, 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, CEO 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
Tim Zamb (Biol ’66, Ph.D. ’78) Head of AIDS Vaccine Design and Development Laboratory of the International AIDS Vaccine Initiative
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

Grad Career Outcomes: elevate.iit.edu/graduates-outcomes
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.

Ranked as the #13 global technology innovation hub
—KPMG 2020

Top 10 U.S. city for tech careers
—CIO magazine

Home to 36 Fortune 500 companies, 100-plus startups and incubators, and 34% women-owned startups

Chicago 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’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.

“I knew that if I came to Illinois Tech I would have the opportunity to connect with a huge network of computer scientists professionals, historians, and all these other scholars that are interested in AI ethics, and it’s this nice blending of working with the technology—the practical side of things—and the humanities—the philosophy, the social scientists—that was a big draw for me. —Monika Sziron Ph.D.

“Illinois Tech made me a subject-matter expert in my field and one focus is to continue to learn more information security and cybersecurity concepts. My master’s has made me more marketable for manager and director roles in information security and cybersecurity.”

—Juan Vasquez (M.A.S CYF ’20)

—Monika Sziron Ph.D. (Technology and Humanities ’21)

Achieve Your Goals.

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 Science in Medical Devices and Biomaterials
- Master of Engineering in Biomedical Engineering
- Master of Computational Engineering, Biomedical Track

Chemical and Biological Engineering
- Ph.D. in Chemical Engineering
- Master of Science in Chemical Engineering
- Master of Science in Biological Engineering
- Master of Chemical Engineering
- Master of Computational Engineering, Computational Chemical Engineering Track
- Master of Pharmaceutics 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 Architecture
- Master of Science in Civil Engineering
- Master of Science in Environmental Engineering
- Master of Engineering in Environmental 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 Public Works
- Master of Engineering Management, Project Management Track
- 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, 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 Advanced Manufacturing, Automation, and Control Systems Track
- Master of Engineering in Artificial Intelligence for Computer Vision and Control
- Master of Engineering in Energy Systems, Energy Transmission, and Markets Track
- Master of Engineering in Wireless Communications and Computer Networks
- Master of Network Engineering
- Master of Power Engineering
- Master of Telecommunications and Software Engineering
- Master of Electrical Engineering

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 Materials Science and Engineering
- Master of Science in Mechanical and Aerospace Engineering
- Master of Computational Engineering, Computational Mechanics Track
- 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 Additive Manufacturing Track

Chicago-Kent College of Law
- Juris Doctor (J.D.)
- Master of Laws (LL.M.)—six discipline options
- Master of Laws in Taxation
- Master of Laws in International Intellectual Property Law
- Master of Laws in Trial Advocacy for International Students
- Master of Laws in Business Administration (Dual Degree)
- Juris Doctor/Master of Laws in Global Business and Financial Law (Joint Degree)
- Juris Doctor/Master of Business Administration (Joint Degree)
- Juris Doctor/Master of Science in Finance (Joint Degree)
- Juris Doctor/Master of Science in Sustainability Analytics and Management (Joint Degree)
- Juris Doctor/Master of Public Administration (Joint Degree)
- Doctor of Judicial 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 Sustainability and Vertical Urbanism
- 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

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 Cybersecurity and Security
- Master of Information Technology and Management
- Master of Science in Information Technology and Management
- Master of Software Development

Institute of Design
- Ph.D. in Design
- Master of Design
- Master of Design Methods
- Master of Design (M.A. Dual Degree)
- Master of Design/Master of Public 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 Biophysics
- Master of Science in Biology for the Health Professions
- Master of Science in Molecular Biochemistry and Biophysics

Chemistry
- Ph.D. in Chemistry
- Master of Materials Chemistry

Chicago-Kent College of Law
- Master of Science in Chemistry
- Master of Science in Computational Chemistry
- Master of Science in Senior 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

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

Stuart School of Business
- Ph.D. in Finance
- Ph.D. in Management Science and Analytics
- Master of Business Administration
- Master of Business Administration/Business Analytics
- Master of Business Administration/Quantitative Finance
- Master of Science in Business Administration (M.B.A. Dual Degree)
- Master of Management
- Master/Master of Science in Industrial-Organizational Psychology (Dual Degree)
- Master of Public Administration
- Master of Science in Finance
- Master of Science in Financial Economics
- Master of Science in Management Science and Analytics
- Master of Science in Marketing Analytics
- Master of Science in Project Management
- Master of Science in Sustainability Analytics and Management
- Master of Science in Technological Entrepreneurship
- Master of Technological Entrepreneurship
- M.B.A./Juris Doctor (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./Master of Science in Sustainability Analytics and Management
- M.B.A./M.P.A. (Dual Degree)
- M.P.A./Master of Design (Dual Degree)
- M.P.A./Juris Doctor (Dual Degree)
- M.S. in Finance/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

iit.edu/academics/programs
Upon arriving at Illinois Tech’s Stuart School of Business, Fenglin joined Stuart Investments, which manages a $1.2 million portfolio and serves as a hands-on training ground for students in equity research, fundamental analysis, valuation models, and portfolio analysis, eventually becoming the group’s fund manager.

She also was part of Stuart teams that participated in two prestigious international competitions: the McGill International Portfolio Challenge and the CFA Institute Research Challenge.

Elevate Your Experience.

At Illinois Tech we’re focused on empowering you to become an innovator and leader through advanced technical education and impactful hands-on experiences that ensure that you graduate with the skills needed to launch a great career.

Our one-of-a-kind Elevate program guarantees that you’ll take part in outside-the-classroom experiences such as internships, research, short courses, and competitions. It also provides personalized academic and career mentorship, all in pursuit of ensuring that you graduate career-ready.

The skills taught through Elevate—emotional intelligence, tech development, creativity, computational thinking, and active learning—are among the relevant skills that companies seek in their employees (and are beneficial for those seeking OPT and CPT).

You can even begin your Elevate experience before you get to campus. Illinois Tech offers virtual internships to prospective students, four-week online experiences where you will learn and apply the hands-on skills needed to lead and innovate in today’s increasingly remote professional world.

“I enjoyed my activities at Illinois Tech, and I am fortunate that such opportunities were available. There are many reasons why I engaged in the campus community. It was a way of giving back to the community that was kind to me. It was also a way to add to the advancement of knowledge. I gained priceless lessons in developing organizational communication, and leadership skills.”

—Leila Mirghaderi (Ph.D. Technology and Humanities ’23)

“Having fundamental knowledge in core courses at Illinois Tech made my internship duties easier….I had the opportunity to work on research projects with my adviser, Kyle Hale. One project was to build a system call interception tool, ‘mktrace,’ for a research paper, which helped me to construct system call hijacking exploits in my internship.”

—Brian Tauro (M.S. Computer Science ’19, Ph.D. Student)

“’My ultimate career goal is to become a successful individual investor, and I came to Stuart School of Business for my graduate studies to learn how to invest. One of the great benefits of Stuart is that you have a lot of opportunities and challenges to improve yourself.’”

—Fenglin Wang (M.S. Finance ’23)

“Leila was one of the inaugural fellows of the Socially Responsible Modeling, Computation, and Design (SofMeD) initiative, where she studied social media and its use among influencers in Iran. She also helped to organize conference panels, presentations, and coordinator symposia while at Illinois Tech.

An internship at Intel is already paying dividends for Brian, who learned the skills and developed the contacts needed to create opportunities for a future in security research. These hands-on experiences outside the classroom helped connect the skills that he learned in the classroom to his real-world opportunities.

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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.

“My involvement in (research with Fermilab’s Superconducting Quantum Materials and Systems Center) has to do with work specifically involving field-programmable gate arrays and machine learning, which are skills I have built through the Embedded Computing and Signal Processing Research Laboratory and through the ECE curriculum. The lab has enabled me to explore avenues of research I never would have considered before I came here!”

—Hans Johnson
(M.S. EE ’21, Ph.D. EE Candidate)

Chicago’s premier tech park, University Technology Park at Illinois Tech, 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.
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.
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.

Explore.
Do.

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.

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
Includes sophisticated information technology and management 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, it incorporates the latest computer and audiospatial technologies in a traditional setting.

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
Home to the Institute of Design, media labs, collaboration/maker spaces, and emerging technologies, this innovation hub provides startup and venture capital-based programming.

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
Our library system offers research/writing assistance, laptop rental, 3D printers, and more—with separate libraries for law, architecture, food safety, and ethics scholarship and training.
Join us.

› iit.edu/admissions-aid/apply