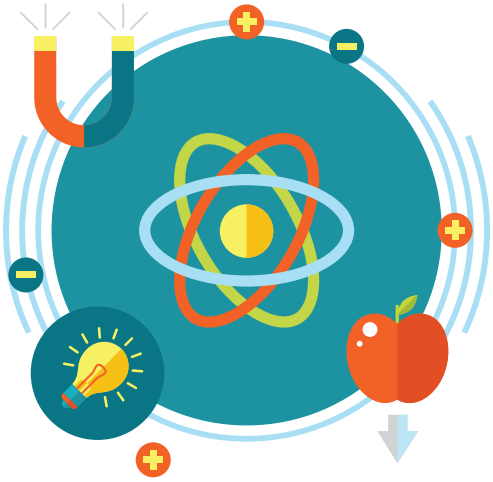
Cutting-Edge Programs, Smart People, Cool Research

FIND IT ALL AT ILLINOIS TECH

BE IT ALL PHYSICS.

Illinois Tech is a small, private university that educates students to go on to do big things. Similarly, the Department of Physics is small, so you have access to your professors; and the approach is hands-on, so you don't just read about it—you do it.



Physics at Illinois Tech is challenging. And when you finish the program, you'll find that many different graduate school and professional options await. For our physics graduates this has included top graduate schools and jobs at such places as NASA, Google, Microsoft, Target, IBM, and more. That's because when you study physics you learn more than how nature works at its most fundamental levels. You also learn skills that can be used in many other areas—such as **finance**, **law**, **business**, and **engineering**—quantitative skills, analytical-thinking skills, problem-solving skills.

B.S. Programs in Physics Fields

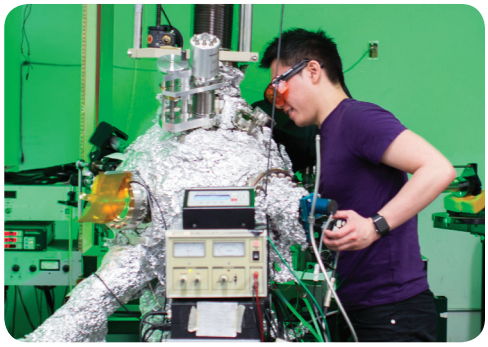
Receive your bachelor's degree in an area of focus with the greatest interest to you.

- Applied Physics
- Astrophysics
- Physics

2'Fer Advantage

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

- Bachelor of Science in Physics/ M.S. in Computer Science
- Bachelor of Science in Physics/ M.S. in Health Physics



Research—Even As an Undergrad!

Physics undergraduates at Illinois Tech get the opportunity to work on major research right from the start, including at nearby Argonne and Fermi national laboratories. Our new **Elevate** program consists of summer courses that allow all undergraduates to experience research early in their careers at Illinois Tech (the summer after your first year, or the summer before your first year for transfer students). We also offer **$5,000 Undergraduate Summer Research stipends** to select students.

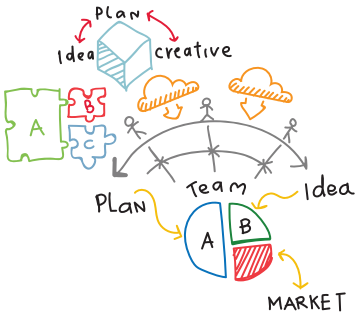
Illinois Tech physics faculty are developing nanoelectrofuel battery technology, exploring the surface conductivity of Nb for reactors, using biophysics to study the molecular basis for muscle physiology, and doing work on the role of accelerator component design and materials on beam dynamics of particle accelerators.

Research on the Edge

With Ph.D.s from Stanford; the University of Chicago; the University of Cambridge; the universities of California, New York, and Virginia; and other major research universities, our physics faculty include fellows of the American Physical Society, NSF CAREER Award recipients, and recipients of major research funding. They are pushing the boundaries of what we know in many areas, including:

- Elementary particle physics/experimental neutrino physics
- Accelerator physics
- Nuclear reactor physics
- Condensed matter and advanced materials physics
- Synchrotron radiation, X-ray spectroscopy and diffraction
- Experimental and computational biophysics
- Computational physics
- Health physics (radiation protection)

Several Illinois Tech physics faculty and Ph.D. students were among the winners of the **2016 Breakthrough Prize in Fundamental Physics**, which was awarded to five global teams that conduct neutrino oscillation experiments. Among them was Professor of Physics and Vice Provost for Research **Christopher White**, a researcher with the Daya Bay reactor neutrino experiment.



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 physics-oriented IPROs include:

- Developing an antimatter gravity interferometer
- Galilean test of the Einstein principle of equivalence
- Developing a new strategy to detect smuggled nuclear material
- Auto engines as combined heat+power systems

STAND OUT.

Our graduates are far from ordinary.
But we expect them to be extraordinary.
Meet some of our alumni.

Aram Apyan
(Physics and Applied Mathematics '11)—In the Ph.D. program in theoretical physics at MIT, working on research at CERN

Emily Hommerding
(Physics '13)—Laboratory physicist at Research International

James Kapaldo
(Physics '11)—In the graduate program in electrical engineering at the University of Notre Dame

EXPERIENCE IT:
Physics at Illinois Tech

"The cool thing about physics at Illinois Tech is that the curriculum covers such a variety of subjects, making us really versatile students and workers. When I came to Illinois Tech, one of the first things I was told was companies like physics majors because they know we know how to learn, and that's certainly true. You get enough lab experience to be a competitive applicant for industry internships and funded undergraduate research projects. In my case, I had enough programming experience to secure a job as a full-time software developer months before I graduated. It's challenging but definitely rewarding at the end."

— **Carly Ilg** (Physics '16), Oak Forest, Illinois
Software Engineer, Target Technology Leadership Program

College of Science
ILLINOIS INSTITUTE OF TECHNOLOGY

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