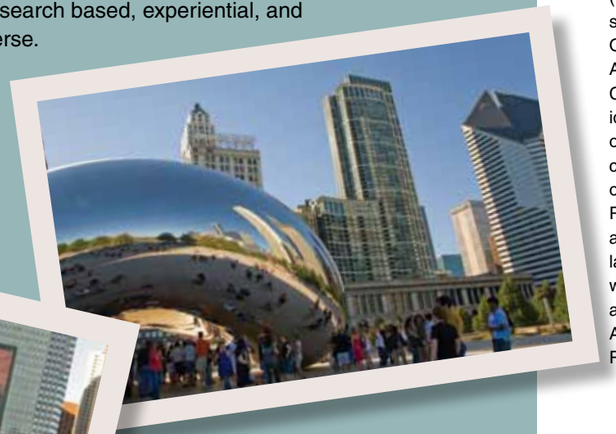
The IIT Experience

IIT offers the advantages of a small, private college combined with a major research university.

The IIT education is distinguished by the integration of rigorous learning content, professional perspectives, and applied experiences.

It is distinguished by an educational environment that is personalized, research based, experiential, and internationally diverse.

At IIT, you will also be located in the heart of one of the world's greatest cities, Chicago.



IIT offers the personal touch of a small school. You'll know your professors and they will know you. You can talk to them, get advice, make connections; they can watch your progress, point out opportunities, help you steer your course.

The IIT Legacy in Chemistry

Susan Solomon (CHEM '77), a senior scientist at the National Oceanic and Atmospheric Administration in Boulder, Col., is credited with identifying the cause of the ozone hole. She was co-chair of Working Group One of the Intergovernmental Panel on Climate Change and helped to compile a landmark report on global warming. In 2007, the IPCC and former Vice President Al Gore shared in the Nobel Peace Prize for their efforts.

Vincent Rotello (CHEM '85), professor at the University of Massachusetts at Amherst, is considered a world leader in nanotech research, pioneering the understanding of how molecules work and how they can be put together for therapeutic, materials, and diagnostic purposes.

Shannon Kelly (CHEM '02) is a manager of regulatory affairs for AVEO Pharmaceuticals Inc. in Cambridge, Mass. Shannon's degree launched her career in drug discovery and development and provides her with the technical expertise to help scientists develop new treatments for patients with cancer. Shannon says, "My degree is the foundation of my career as a regulatory professional and thus my ability to help patients that suffer from incurable diseases."

The IIT chemistry program is approved by the American Chemical Society.

IIT College of Science and Letters
ILLINOIS INSTITUTE OF TECHNOLOGY

Engineering 1 Building
Illinois Institute of Technology
10 W. 32nd Street
Chicago, IL 60616

To Learn More and How To Apply

http://www.iit.edu/csl/pathways/

Undergraduate Admissions:
http://www.iit.edu/undergrad_admission/

800.448.2329

Chemistry at IIT: Where Can It Take You?

ILLINOIS INSTITUTE OF TECHNOLOGY

What Is Chemistry?

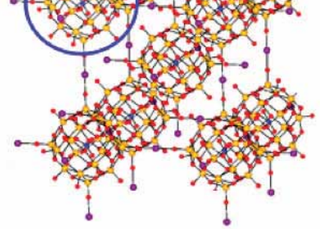
Chemistry is the study of physical matter and its changes. With this knowledge, chemists create new molecules and materials to meet the needs of industry and society; study the composition of the atmosphere to better understand climate change; study chemical processes in the human body and other living organisms to treat disease; and more.

Traditional areas of chemistry include organic chemistry, inorganic chemistry, analytical chemistry and physical chemistry. Beyond these traditional areas, IIT also offers optional chemistry degree programs in biological chemistry, pharmaceutical chemistry, polymer chemistry, materials chemistry, chemical physics and chemical education.

Why Is It Important?

Chemistry is crucial for driving advances and solving some of the most important challenges of the twenty-first century in medicine and pharmaceuticals, energy, the environment, and more.

As a chemist, you might create new materials or reactions for better solar cells, new organic compounds for use in cancer diagnostics and therapy, or study the chemistry of the environment and our impact upon it.



Where Can a Chemistry Degree Take You?

With a degree in chemistry, you might go on to a career in academic or industrial research and development, chemical analysis, or chemical manufacturing and marketing; in other areas of science; or in professions such as medicine, law, or business.

The median annual salary for chemists in May 2008 was $66,230, and for materials scientists $80,230. (Source: Bureau of Labor Statistics, U.S. Department of Labor)

Just some of the places where students from our program have gone:

- **Graduate school in chemistry** (Illinois Institute of Technology, Duke University, Northwestern University, University of Chicago, University of California, Berkeley)
- **Jobs in industry** (Abbott Labs, Stepan Chemical Company, L'Oréal, UOP LLC)
- **Dental school** (Temple University)
- **Pharmacy school** (University of Illinois at Chicago)
- **Medical school** (Johns Hopkins University)
- **Law school** (George Washington University)

Chemistry Facilities and Equipment at IIT

- New chemistry teaching labs
- New Pauling Computer Cluster for quantum chemistry calculations and molecular visualization
- Ultraviolet-visible spectrometer
- Atomic absorption spectrometer
- Polarimeter
- High-performance liquid chromatography
- Gas chromatographer-mass spectrometer
- Two nuclear magnetic resonance spectrometers
- Fourier transform infrared spectrometer
- Atomic force microscope
- Fluorescence spectrometer
- Calorimeter

Why Chemistry at IIT?

The chemistry program at IIT provides rigorous education in the fundamental areas of chemical theory and chemical experimentation. It roots you in the discipline and provides you with a firm foundation so that you can take many paths from here.

The flexible curriculum offers you the opportunity to specialize beyond the traditional areas with one of six options: biological, pharmaceutical, polymer, or materials chemistry; chemical physics; or chemistry education (combined bachelor's/teaching certificate). Also possible are dual-degree, major plus minor, combined bachelor's/master's, premedical, or honors law options.

Research

If you like to learn hands-on, IIT's program is for you:

Requirement. All chemistry majors are required to do research with faculty (except chemistry education majors). Three courses in the program are research related.

Summer research. The College of Science and Letters awards select students a $5,000 stipend for 10 weeks of research in the summer.

Your research with faculty might be in such areas as:

- Solar energy conversion and catalysis
- Protein/cell function and dynamics
- Novel materials, tools, and methods for bioscience research

Round out your studies with chemistry club, study abroad, an Interprofessional Projects (IPRO) Program (ipro.iit.edu) to develop affordable energy solutions for the world's poor, and other activities.

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