New majors in engineering and computational and applied math give UChicago students more academic options than ever before. The Institute for Molecular Engineering (IME) utilizes a groundbreaking model for engineering education and research by bringing together experts from biology, chemistry, math, and physics under one roof, creating a revolutionary engineering division. By taking a multidisciplinary approach to address societal problems and global issues, UChicago engineers transcend the boundaries of traditional engineering research and open new doors of discovery. Research themes at the IME include Energy Storage and Harvesting, Molecular Engineering of Water Sources, Immuno-Engineering and Cancer, and Nano-Patterning and Nano-Lithography.

Research is part of UChicago’s DNA. Each UChicago student benefits both from the resources of a world-class research university and from the environment of a residential liberal arts college. It’s the best of both worlds in undergraduate science education. Our Core curriculum provides each student with a broad educational foundation, which fosters the spirit of open inquiry that defines our campus culture. These patterns of innovative thinking have helped lead UChicago researchers to discoveries like new species of dinosaurs, the science of ecology, the mathematical theory of black holes, the connection between genetics and cancer, Carbon-14 dating, the measurement of the speed of light, blood preservation, and the first controlled, self-sustaining nuclear chain reaction.
RESOURCES
Cutting-Edge Facilities for World-Changing Research
A vast network of facilities and over 140 research institutes affiliated with the University support UChicago researchers.

- **Fermilab** is a Department of Energy laboratory named for UChicago professor and Nobel laureate Enrico Fermi that explores the nature of the universe using state-of-the-art particle accelerators.

- **Argonne National Laboratory** is the United States’ first science and engineering national laboratory, and its researchers work to solve vital energy, health, technological, and security problems.

- **The Marine Biological Laboratory** in Woods Hole, Massachusetts houses researchers who study biology, biomedicine, and environmental science.

- **Ben-Gurion University of the Negev**, in partnership with UChicago’s own IME, is developing innovative water purification technologies.

- **The Toyota Technological Institute at Chicago** furthers the field of computer science by combining endowed research and education.

- **The Pierre Auger Observatory** in Argentina and the **Yerkes Observatory** in Wisconsin turn an eye towards energy cosmic rays, stellar motions, and astronomical happenings.

- **The Pritzker School of Medicine** and **the University of Chicago Medical Center** give undergraduates limitless possibilities for research on UChicago’s campus.

GROWTH
Lifelong support for STEM Careers
Undergraduates are supported by their academic advisors, professors, alumni, and Career Advancement specialists. Students of any major can participate in UChicago Careers in Science, Technology, Engineering, and Math (UCISTEM), which organizes a workshop curriculum, research opportunities, internships, treks, and innovation competitions. Recent career treks have visited Palo Alto, New York City, and Beijing and have toured companies like Caterpillar, Google, and Chrysler Group. The Chicago Innovation Exchange works with STEM students to foster a culture of entrepreneurship and bridge the gap between theoretical research and mass-market applications, creating an incubator environment to foster undergraduates’ entrepreneurial spirit.