

MECHANICAL ENGINEERING

Mechanical engineers create products and technologies that improve modern society.

As a mechanical engineer, you will develop an understanding of mechanics, design and production, and the flow and transfer of energy. You will have the freedom to direct your knowledge and skills toward the products and systems that interest you most: from the very large—think aircraft, power plants, and factory equipment—to the extremely small, in the realm of nanotechnology.



“I’m excited to be working on projects that could change the fundamental way we look at the universe.”

Annie McDonnell, Mechanical Engineering '16
Systems Engineer, NASA Jet Propulsion Laboratory

Flying high

Imagine having to not only fly a drone accurately, but also design and build it. UIC students, including several ME majors, took on the challenge at a competition sponsored by the U.S. Army Combat Capabilities Development Command. More than 1,700 colleges and universities were eligible to compete, but only the top 11 proposals made the finals. Finalist teams had to propose and prototype solutions to real-world technological problems that the Army faces in the area of unmanned aerial vehicles.

UIC’s design used 3D printing technology to eliminate copper wires, minimize assembly time and user intervention, and improve structural rigidity—all properties that are useful in the field. For their ingenuity and in-flight performance, the UIC team won third place in the competition and \$3,000 in prize money.

Visit mie.uic.edu for more information about major requirements, student groups, and courses.



CREATIVITY IN ACTION

For our annual senior design showcase, the UIC Engineering Expo, mechanical engineering students have created:

- ▶ An injection-molding machine for chocolates
- ▶ A design for an autonomous Mars rover
- ▶ A method of remotely refilling space rockets with nitrous oxide
- ▶ A tuning plan for a Formula 1 exhaust system

With a mechanical engineering degree, you might:



Work on the rocket propulsion that will enable our next Mars mission



Investigate alternative energy sources to help the world adapt to climate change



Develop next-generation automotive fuels, parts, and systems

