There has never been a better time to enter the exciting field of robotics. With the rebirth of the automotive industry, rapid advancements in technology, and the opening of new markets around the globe, the demand for robots, co-robots, and highly skilled robotics engineers is on the rise – and expected to grow well into the 21st century.

With Lawrence Technological University’s Bachelor of Science in Robotics Engineering, you’ll not only be well-positioned to hit the ground running early in your career, but you’ll also gain the background and experience needed to face the challenges presented by this cutting-edge field.

An ever-evolving discipline, robotics engineering goes beyond designing and building remote controlled machines and tethered robot arms. Today, robotics plays a role in nearly every aspect of our lives. Robotics engineers find employment opportunities in a wide variety of industries, including agriculture, aeronautical and aerospace, automotive, chemical, defense, energy, food and beverage, health care, pharmaceutical,

**CURRICULUM**
Your 136-credit-hour program consists of:

- Humanities (with emphasis on leadership) 19
- Basic Science, Communications, Computer Science, Math 51
- Mechanical Engineering 11
- Electrical Engineering 13
- Robotics Engineering 29
- General Engineering 4
- Technical Electives 9

**Total Credit Hours 136**
Bachelor of Science in Robotics Engineering

material processing and handling, manufacturing, marine, medical, mining, and nuclear.

Robotics engineers may design and maintain robots, develop new applications for robots, or conduct research to expand the application of robots. They have to be well-versed in the world of systems engineering as well as possess the versatility to design and build a “human-like” system, consisting of control algorithms that represent the brain of the product, sensing and actuating schemes that simulate the nerves and muscles, and a mechanical system that makes up the skeleton of the design.

Lawrence Tech’s faculty are dedicated to helping you build the foundation you need to either enter the field after graduation or continue your studies.

Why Robotics Engineering at Lawrence Tech?
Lawrence Tech’s undergraduate program is the first one of its kind in the state and the second in the nation. It is a truly unique and interdisciplinary degree, offering a progressive curriculum that blends mechanical and electrical engineering, robotics, and computer science.

In keeping with Lawrence Tech’s motto of theory and practice, the program also integrates experimental components throughout your studies, providing you an avenue for hands-on implementation of the knowledge gained in the classroom. You’ll have access to a dedicated robotics lab fitted with a test area, build benches, and robotics kits. You’ll also receive a high-end laptop computer, equipped with the latest industry standard software, allowing you to work whenever – and wherever – the moment strikes.

Whether in or out of the classroom, you will be afforded a myriad of opportunities to gain practical, real-world experiences. In addition to your required projects, you will be encouraged to participate in competitions that put Lawrence Tech teams on a global stage, up against some of the best robotics developers in the world. These challenging opportunities include:

- **Robofest VCC (Vision Centric Challenge)**: A competition presented by Lawrence Tech that promotes research on computer vision and autonomous mobile robots. (www.robofest.net)
- **Intelligent Ground Vehicle Competition (IGVC)**: This hands-on design experience is at the very leading edge of engineering education. Multi-disciplinary and theory-based, IGVC is an autonomous robot vehicle competition that encompasses the latest technologies impacting industrial development. (www.igvc.org)

As a BS in Robotics Engineering student, you’ll also have the opportunity to mentor robotics teams from local middle and high schools. On-campus research and development jobs in robotics labs may also be available to highly qualified robotics engineering students, allowing you to gain even more professional experience and putting you one step closer to a rewarding career in robotics engineering.

Getting Started
For more information, contact Lawrence Tech’s Office of Admissions at 800.225.5588 or admissions@ltu.edu. For specific questions about the Bachelor of Science in Robotics Engineering, call 248.204.2579.

Lawrence Technological University produces leaders with an entrepreneurial spirit and a global view. That’s why most Lawrence Tech students are employed within a month of graduating and the earning power of a Lawrence Tech bachelor’s degree ranks in the top third of all U.S. universities. Your benefits:

- Leadership Program that helps you develop the marketable skills that employers seek
- Leadership Portfolio that enhances your diploma – and your resume
- 12:1 student-faculty ratio
- Faculty with current industry experience
- High-end personal computer customized with all needed software – a benefit, valued up to $15,000, unique in Michigan and nationally
- Schedules that work for you, with convenient day, evening, weekend, or online classes
- High-tech, wireless 102-acre campus that’s commuter friendly, with recreation, housing, and meal service options
- Financial-aid, co-op, and internship opportunities
- Proactive career placement services

Explore over 100 undergraduate, master’s, and doctoral programs in Colleges of Architecture and Design, Arts and Sciences, Engineering, and Management.