Energy Engineering

From rising fuel costs to global warming, we face environmental concerns today that require innovative thinking and strong leadership skills. We can no longer afford to rely solely on traditional energy sources, which is why now, more than ever, we look to those trained in alternative fuel and energy systems to help create a brighter, cleaner, and more sustainable future.

Why Energy Engineering at Lawrence Tech?
Lawrence Technological University has been at the forefront of the green revolution for many years. In fact, Lawrence Tech was one of the very first schools in Michigan to offer a program in energy engineering. The University’s minor and graduate certificate programs are designed to prepare you with the knowledge and advanced skills needed to meet the demands of this exciting and growing field.

Do you want to be part of the solution? Do you want to make a difference for generations to come? Not only is alternative energy the wave of the future, it also could be one of the keys to Michigan’s – and the nation’s – economic recovery. As an energy engineer, you could be right there on the leading edge.

The minor in energy engineering is geared toward students pursuing an undergraduate degree in mechanical engineering, while the graduate certificate is aimed at professionals who hold a bachelor of science in engineering or the natural sciences, particularly physics and chemistry. Both programs feature a rigorous curriculum consisting of 18 credit hours – three core courses and three electives. You can choose to learn about alternative and traditional energy sources, nuclear energy, or energy management and conservation.

Both programs offer you flexibility as well as a broad spectrum approach that reflects the ever-changing and evolving profession itself. Depending on your interests, you may choose to study a variety of topics, including solar, wind, and geothermal energy, biomass, energy storage systems, and fuel cells, or you may specialize in one area.

In keeping with the University’s signature “theory and practice” approach to learning, you will participate in hands-on projects in

“\"I feel that this program allowed me to focus my degree on something that will make a profound difference in the world.\"”

Ryan Smith, BSME’07, project engineer, NextEnergy

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<th>CURRICULUM</th>
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<tr>
<td>Both the minor and certificate programs require 18 credit hours and consist of:</td>
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<tr>
<td>Core Courses</td>
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<td>Alternative Energy Fundamentals</td>
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<td>Applied Thermodynamics</td>
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<td>Energy Resources and Technologies</td>
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<td>Electives</td>
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Lawrence Tech’s state-of-the-art Alternative Energy Laboratory. Optional internship and co-op opportunities can further provide you with practical, real-world experiences, and the University’s proactive career placement services can help put you on the path to success.

**Admission**

If you are earning a Bachelor of Science in Mechanical Engineering at Lawrence Tech, you are eligible to declare a minor in energy engineering.

Professionals who hold an undergraduate degree in engineering, chemistry, or physics are eligible to enroll in the certificate in energy engineering program. Students with related degrees may be admitted if they meet all course prerequisites, pending approval from the program director.

**Getting Started**

For more information, visit [ltu.edu/engineering/mechanical/energyminor.asp](http://ltu.edu/engineering/mechanical/energyminor.asp) or contact Lawrence Tech’s Office of Admissions at 800.CALL.LTU or [admissions@ltu.edu](mailto:admissions@ltu.edu).

For specific questions about the minor or certificate in energy engineering, contact 248.204.2550 or [energy@ltu.edu](mailto:energy@ltu.edu).

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**GET MORE. DO MORE.**

Lawrence Technological University produces leaders with an entrepreneurial spirit and a global view. That’s why Lawrence Tech graduates are known for top job placement and higher starting salaries. Your benefits:

- Intensive leadership-driven programs that embrace theory and practice
- Faculty with current industry experience, not just book smarts
- Convenient schedules that include day, evening, weekend, and online classes
- Well-connected career placement services
- A high-tech, wireless 102-acre campus that’s commuter friendly, with recreation, housing, and meal service options

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