As the nation’s infrastructure ages, civil engineers are researching, designing, and building the way to a new, more sustainable landscape. Those with the deepest experience and education will be at the forefront of envisioning and creating that future.

A master’s degree has long been considered sufficient education for a practicing civil engineer. However, as technology advances, solutions become more complex, and the demand for an educated workforce grows, engineering doctorates are increasingly desired by employers, universities, and research facilities.

Earning a Doctor of Philosophy in Civil Engineering at Lawrence Technological University can make a difference in your career, opening up significant leadership opportunities for you in academia, research, and professional practice.

Why a PhD in Civil Engineering at Lawrence Tech?

You will participate in and lead pioneering applied research projects that offer you exceptional hands-on experience. Most projects are funded by research grants from private foundations and public entities, such as the National Science Foundation and numerous state transportation departments.

Much of the civil engineering research is conducted at Lawrence Tech’s Center for Innovative Materials Research (CIMR), a national resource for the research, development, and testing of carbon fiber composites and other new materials for defense and infrastructure applications. CIMR houses such leading-edge instruments as a comprehensive environmental test chamber, a four-post load frame, a fire chamber, an Electro-Puls E10000 capable of performing combined axial and torsional loading, and two structural testing frames with static and dynamic loading capacities up to 150,000 pounds.

The Michigan Department of Transportation (MDOT) has designated Lawrence Tech’s Department of Civil Engineering as a Center of Excellence for Sustainable Infrastructure and Structural Testing for its ongoing research to improve the structural integrity and longevity of concrete bridges.

Whether you want to test the strength of structures, study settlement mechanics of bioreactor landfills, develop environmentally sound stormwater management techniques, or initiate your own project, the PhD in Civil Engineering program at Lawrence Tech can provide you with an individually focused research experience.

Lawrence Tech’s dedicated faculty, who have rich professional, research, and publications backgrounds, will guide and mentor you throughout the process. The

CURRICULUM
Your program requires a minimum of 24 credit hours beyond your master’s degree and 36 dissertation credits.

You must also pass:
• a PhD qualifying examination,
• a proposal examination, and
• a dissertation defense.
advanced testing facilities, intimate private university atmosphere, and low student-to-faculty ratio can help prepare you to build an exciting civil engineering career.

**Specializations**
Students may select one of the following PhD in Civil Engineering program specializations:
- Construction Engineering and Management,
- Environmental and Water Resources Engineering,
- Geotechnical and Geoenvironmental Engineering, or
- Structural Engineering and Materials.

**Getting Started**
Admission to the PhD in Civil Engineering program requires:
- A Master of Science in Civil Engineering (or equivalent) from an accredited college or university. Exceptional students with a Bachelor of Science in Civil Engineering may be considered for direct admission into the doctoral program,
- A minimum GPA of 3.3 in the master’s degree, and
- Submission of the following documents:
  - A completed Application for Doctoral Admission
  - Official transcripts of all college work
  - Three letters of recommendation from professors who have directly evaluated your academic performance during previous degrees
  - A research statement describing your subject(s) of interest, including your intended area of specialization within civil engineering
- Non-native speakers of English must document English proficiency upon entry to the program (TOEFL minimum 550 or IELTS minimum 6.0).

If you do not meet all the conditions for regular admission, you may be considered for provisional admission.

For more information, contact Lawrence Tech’s Office of Admissions at 800.225.5588 or admissions@ltu.edu. For specific questions about the PhD in Civil Engineering, contact the Department of Civil Engineering at 248.204.2545.

**GET MORE. DO MORE.**
Lawrence Technological University produces leaders with an entrepreneurial spirit and a global view. That’s why Lawrence Tech grads earn a return on their tuition investment that ranks among the highest 30 percent of all U.S. universities. Your benefits:
- Intensive leadership-driven programs that embrace theory and practice
- Faculty with current industry experience
- Convenient schedules that include day, evening, weekend, and online classes
- Well-connected career placement services
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Explore over 100 undergraduate, master’s, and doctoral programs in Colleges of Architecture and Design, Arts and Sciences, Engineering, and Management.