

LAWRENCE TECHNOLOGICAL UNIVERSITY

Founded in 1932 on the site where Henry Ford perfected the moving assembly line, Lawrence Technological University offers over 100 undergraduate, master's, and doctoral programs in Colleges of Architecture and Design, Arts and Sciences, Business and Information Technology, and Engineering. With a focus on leadership through theory and practice, Lawrence Tech seeks to help students understand not only why something should work, but also how it works in real-life situations. Consequently, many of the University's programs encourage students to participate in professional projects in which they solve real problems facing practicing architects, engineers, managers, and scientists. Through co-ops, part-time work, internships, student projects, and participation in professional organizations, students network with leaders in their chosen fields.

This approach gives LTU students a competitive edge.

92%

Students employed or registered for graduate school at commencement

5th

in nation for boosting graduates' earning potential
—Brookings Institution

TOP 11%

Highest graduate starting salaries among U.S. colleges and universities
—PayScale

Lawrence Tech integrates the capstone design project with the competition teams, resulting in an eight-month period to design and build. Not all institutions do this. The benefit of this restricted timeframe is to reflect real-world deadlines and simulate engineering work situations.



CON
CRETE

Lawrence Technological University

TO

BOG

BLUE DEVIL 

GAN 2021

Lawrence Technological University

21000 West Ten Mile Road,
Southfield, MI 48075-1058

www.ltu.edu

KING OF THE HILL
BEST STEERING PERFORMANCE
BEST BRAKING PERFORMANCE



BEST PERFORMING TOBOGGAN
3RD, BEST TECH DISPLAY
MOST IMPROVED TEAM

COMPETITION + TEAM

More than 500 engineering students from 20+ Canadian universities compete in the Great Northern Concrete Toboggan Race (GNCTR) each year in January alternating between the Canadian West and East coast. Lawrence Technological University, participating for the 7th year in a row, is the **only U.S. team competing**. While this is a Civil Engineering competition, all students are welcome to become a part of the team.



The 2020 LTU theme was Ford's Model T

Each year, an approved theme must be submitted by each competition team. Students then design and build a toboggan based on the theme. There are strict guidelines regarding how the toboggans are made. This gives students an engineering and design challenge to solve. The toboggans can weigh no more than 300 pounds, must have fully functional steering and mechanical braking systems, must be able to withstand 5Gs of force in case of a crash, have a running surface made entirely of concrete with the toboggan frame made out of metal, and the design should include space for up to five riders. The toboggans are raced and judged on design and technical functions.

Team members gain skills and experience and are able to represent the United States and Lawrence Tech in an international competition. They have the added value of creating memories and meeting other students from across Canada.

DONOR INVOLVEMENT

The success of Lawrence Tech's Concrete Toboggan team would not be possible without the generous support of donors and sponsors. This year's team has set a fundraising goal of \$10,000. These funds will assist in securing the materials needed to design, build, and test the toboggan. Individuals or companies can provide cash support or donations of materials and equipment.



DONOR BENEFITS

Most donations are 100% tax-deductible. Your donation not only supports hands-on, experiential learning, but it also provides you with valuable promotional opportunities. Your name or your company's name will be displayed at the Great Northern Concrete Toboggan competition and will be included in the team's printed materials and news releases. This exposure promotes your business to the general public and future engineers and designers.

CONTACT

Andra Malburg, amalburg@ltu.edu

TEAM MEMBERS	Allison Andrews	Rebekah Holbrook	Adam Stavros
	Brittney Bult	Kyle Huisman	Alysha Vipushan
	Austin Curtis	Michael Karsten	Bradley Woods
	Logan Dewan	Andra Malburg	
	Melissa Ferrier	Ryan Stahovec	