

LAWRENCE TECH

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, LTU seeks to help students understand not only why something should work, but also how it works in real life.

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. Students learn to network with leaders in their chosen fields through co-ops, part-time work, internships, student projects, and participation in professional organizations.

This approach gives Lawrence Tech students a competitive edge:

5th

Among U.S. colleges and universities for boosting graduates' **earning potential** – *Brookings Institution*

TOP 11%

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

92%

Students **employed** or registered for grad school at commencement

MEET THE TEAM



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Robert Florence
Varvara Gromakova
Mark Harting
Patrick Herschelmann
Yunxin Hu
Ashley Jordan
Dylan Lanctot
Matt Larson
Nick Lee
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The labs of LTU's Blue Devil Motorsports teams are located in the Applied Research Center (ARC) behind the Ridler Field House.



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Lawrence Technological University

FORMULA SAE 2021



THE COMPETITION

The Formula SAE® student design competition was originally founded by SAE International in 1979 as Mini Indy. What started off as a small group of colleges participating in an event, once hosted on LTU's campus, has grown to include hundreds of colleges and universities participating in over a dozen annual competitions held in seven countries.

Formula SAE® challenges students to conceive, design, engineer, fabricate, and race a small high-performance Formula-style race car intended for the non-professional weekend autocross racer. Students are asked to assume that a manufacturing company has contracted their design team to develop the vehicle, which should cost less than \$40,000 to produce. The car also must be reliable and easy to maintain. Few other vehicle design restrictions are specified in order to promote clever problem-solving and to give teams the greatest flexibility to express their creativity and imagination. LTU students validate their hard work by putting their car through performance tests in a real racing environment at the Michigan International Speedway. In competition with 120 teams from across the globe, they undergo trials in acceleration, skidpad, autocross, fuel economy, and endurance and are judged for their problem solving, innovative thinking, and teamwork in their presentation and engineering design.



THE TEAM

Lawrence Tech's Formula SAE® team gains valuable practical real-world experience and knowledge in this rigorous year-long effort. Students at all grade levels from all of the University's colleges participate in this unique experience and engineering challenge. Being part of the Formula SAE® team provides students many opportunities to network with alumni and industry leaders as well as participate in events open only to Blue Devil Motorsports members.

The multidisciplinary competition develops students' strengths in:

Engineering	Business Planning	Communication
Teamwork	Marketing	Manufacturing
Leadership	Organization	Career Preparation

DONOR INVOLVEMENT

The history of success of LTU's Formula SAE® team would not be possible without the generous support of donors and sponsors. The team has set a fund-raising goal of \$50,000 to purchase the materials needed to design, build, and test the vehicle. The aim is not only to fund this year's team, but also to support future Formula teams. Individual and company contributions can take the form of money, equipment, or materials. Industry-leading equipment is essential for keeping the Formula teams competitive.

The team hopes to purchase such foundational equipment and tools as:

- Data acquisition equipment
- Lab equipment and technical support
- Powertrain components
- Chassis materials and components
- Fabrication assembly tools

DONOR BENEFITS

Most donations are 100% tax deductible, and 100% of the donations go directly to fund the Blue Devil Motorsports teams. Supporting LTU's Formula team gives sponsors valuable promotional opportunities. Donor names will be displayed on the vehicle and in the team's printed materials and press releases. For a company, participation provides exposure to the automotive and racing industries and promotes the business to the general public and future engineers and designers. Donors can also receive feedback on the performance of their products under racing conditions. Upon request, the team can also display the vehicle at donors' places of business or special events.

BLUE DEVIL MOTORSPORTS

Lawrence Technological University was one of the first universities in the United States to participate in the SAE® Collegiate Design competitions, recognizing the close fit with Lawrence Tech's motto of "Theory and Practice." The motorsports program has grown to encompass Formula SAE®, Formula Electric™, Baja SAE®, SAE® Aero Design, and SAE Supermileage® and includes not only engineering students, but also those in business administration, transportation design, and media communication. This provides students a unique opportunity to work on the type of teams they will encounter in their careers. In 2011 Blue Devil Motorsports was awarded first place in the SAE International Student Exhibit Competition at the SAE World Congress.



HIGHLIGHTS

2019

31st, acceleration
71st, overall

2018

3rd, business
8th, design
16th, autocross

2017

5th, design

2010

7th, design
11th, endurance
16th, overall

2008

13th, presentation
15th, design
20th, skidpad
25th, acceleration

2007

16th, presentation
19th, autocross
20th, skidpad
2006
10th, design

2005

11th, design

2004

1st, Visteon Powertrain
Cooling System Award
12th, design

2003

8th, acceleration
9th, skidpad

2002

1st, Road and Track Triathlon
3rd, autocross
5th, skidpad
8th, design
11th, acceleration