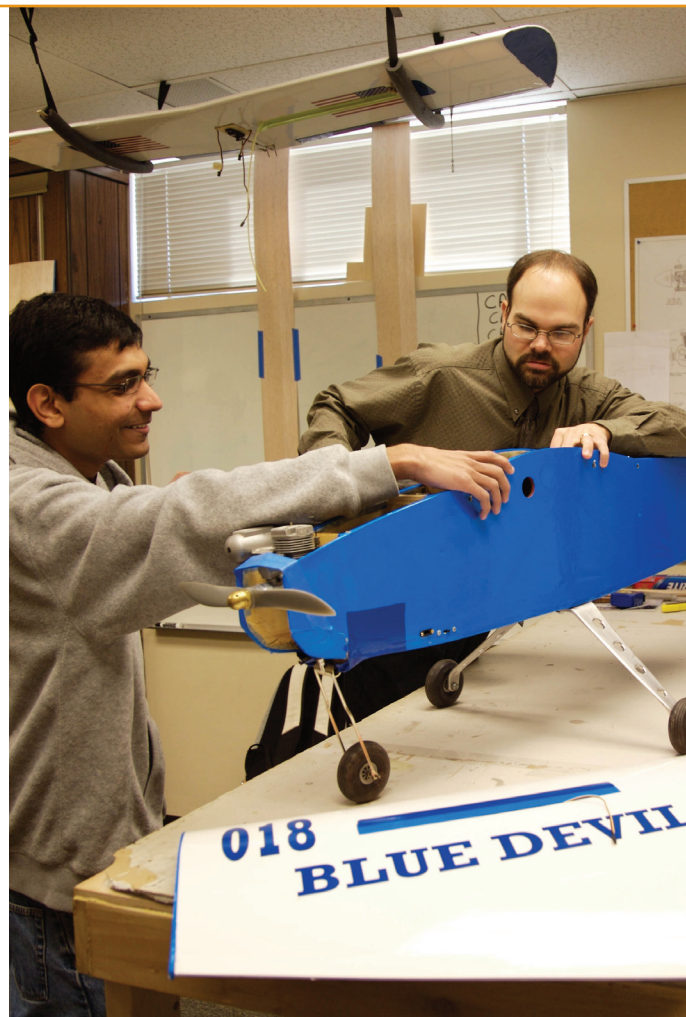


Aeronautical Engineering

MINOR/CERTIFICATE IN

Aeronautical engineers are in growing demand as air travel becomes faster, safer, and more environmentally friendly.

Increased competition in the commercial aircraft industry, new initiatives in space exploration, the evolution of smaller aircraft and airports as alternatives to traditional airline travel, including the expanding market for personal jet aircraft known as very light jets or VLJs, are also fueling this trend. With our world becoming smaller by the day, the aeronautics industry relies on highly skilled aeronautical engineers to help meet the demands of business and pleasure travelers alike.



Why Aeronautical Engineering at Lawrence Tech?

Aeronautical engineering is one of the fastest-growing engineering fields in the United States today and demands engineers with specialized skills. Lawrence Technological University's programs offer you a strong foundation with which to enter the industry, featuring a comprehensive curriculum focused on the fundamentals of aeronautical engineering necessary for aircraft design, analysis, and testing.

Designed for mechanical engineering students or graduates, the aeronautical engineering program at Lawrence Tech provides you with a deeper understanding of this broad field – beyond what is covered in the mechanical engineering program. The minor is geared toward students pursuing

a Bachelor of Science in Mechanical Engineering, and the certificate is geared toward graduates of a mechanical engineering (or comparable) program.

Both options require 18 credit hours – three core courses and three electives – all built around theory and practice. Throughout your studies, you will explore fluid dynamics, propulsion sources, aerodynamics, structural mechanics, control systems, noise and vibration, and engineering materials.

Proud History, Bright Futures

Lawrence Tech has a long history of aeronautics education and research:

- In competitions of the 1930s involving glider teams from across the nation, students from Lawrence Tech won

CURRICULUM

Both the minor and certificate programs require 18 credit hours and consist of:

Core Courses	9
Aeronautical Engineering Fundamentals	
Applied Fluid Mechanics	
Advanced Mechanics of Materials	
Electives	9
Total	18

You may apply up to six credits from Lawrence Tech's undergraduate or graduate mechanical engineering program toward your minor or certificate.



Graduates with a minor or certificate in aeronautical engineering have many career options:

- Aircraft acoustics and noise reduction
- Aircraft control and stability systems
- Aircraft manufacturing
- Aircraft structural analysis
- Aircraft testing
- Airplane or helicopter design
- Jet propulsion systems
- Spacecraft systems
- Supersonic flight research

so often that the University was permanently awarded the national championship trophy!

- An experimental racing airplane, the *Spirit of Lawrence Tech*, was designed and built by Lawrence Tech students in the late 1940s.
- During World War II, a Lawrence Tech alumnus developed the revolutionary high wing/rear door design still used in cargo aircraft worldwide.
- Other alumni played key roles in developing rockets, the Apollo missions that took men to the moon, and the Space Shuttle.

Today, aeronautical engineering at Lawrence Tech continues to thrive. Each year, students successfully compete in SAE Aero Design® competitions and are active on campus in the student

branch of the American Institute of Aeronautics and Astronautics. In recent years, graduates have been hired by major aeronautical and aerospace companies including NASA, Cessna, Boeing, and Goodrich Aerostructures.

Admission

If you are earning a Bachelor of Science in Mechanical Engineering, you are eligible to declare a minor in aeronautical engineering. If you have already completed a Bachelor of Science in Mechanical Engineering, or a comparable degree, you may pursue a certificate in aeronautical engineering.

Getting Started

For more information, contact Lawrence Tech's Office of Admissions at 800.CALL.LTU or admissions@ltu.edu. For specific questions about the minor or certificate in aeronautical engineering, call 248.204.2574.

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 hi-tech, wireless 102-acre campus that's commuter friendly, with recreation, housing, and meal service options

Explore over 80 undergraduate, master's, and doctoral programs in Colleges of Architecture and Design, Arts and Sciences, Engineering, and Management.

