Mechanical Engineering (B.S.)

Our Mechanical Engineering program will give you the skills to understand the practical uses of math, science and engineering - preparing you for a rewarding engineering career.

Machines are at the core of our daily lives, and mechanical engineers are responsible for designing them. Mechanical Engineering students can specialize in four different areas: mechanical design, thermal sciences, manufacturing and materials, and aerospace.

Program type: Major  
Format: On Campus or Online  
Est. time to complete: 4 years (on campus); 6+ years (online)  
Credit hours: 129

Why study mechanical engineering at UND?

Application Deadlines

Fall: Aug. 17  
Spring: Dec. 15  
Summer: May 1

Every engineering program offers education, but not every program prepares students to make a real impact the way UND does. UND is increasingly regarded as one of the top academic and research institutions in the nation for engineering. We consistently rank among the best for educational quality, affordability, and career outcomes.

Gain hands-on experience from the first courses you take in the University of North Dakota's Mechanical Engineering program. You'll take four science courses with labs during your first two years, and you'll build a component or system designed by you in at least one class every year. All your classes will emphasize teamwork and collaborative problem solving, mandatory skills in today's engineering workplace.

Our combined mechanical engineering degree program could let you earn a master's degree in mechanical engineering in just one additional year.

You may focus on one of four optional concentrations:

- Mechanical Design
- Thermal Sciences
- Manufacturing and Materials
- Aerospace (134 credit hours required)

Mechanical Engineering at UND

- UND's mechanical engineering program is accredited by the Engineering Accreditation Commission of ABET.
- Work on wind-tunnel experiments, space hardware design, nanotechnology and other projects.
- Solve real-world industrial problems in design projects sponsored by 3M, NASA, Arctic Cat and more.
- Earn a mechanical engineering degree wherever you live or work through UND Online. UND was one of the first online engineering programs in nation.
- Experience hands-on learning from the start when you build a design project and prototype during your first year on campus.
Get on-the-job experience as an entry-level engineer in our co-op program. Work for companies such as Honda, Energizer, Xcel Energy and more while still a student—and while being paid.

**Jobs in Mechanical Engineering**

**84K** Median annual salary for a mechanical engineer*  
- U.S. Bureau of Labor Statistics

**25K** Number of new mechanical engineering jobs expected by 2026*  
- U.S. Bureau of Labor Statistics

You'll graduate with the skills to pursue a career in mechanical design, thermal systems, and manufacturing and materials in industry or government. As one of the most versatile engineering disciplines, you'll find job opportunities in a broad spectrum of industries, including:

- Aerospace
- Renewable Energy
- Manufacturing
- Consumer Products
- Defense Industries
- Medical
- Petroleum
- Transportation

**When You Major in Mechanical Engineering**

A Mechanical Engineering degree gives you the strategic skills you need, including:

- Computer-Aided Design
- AutoCAD
- SolidWorks (CAD)
- Creo Elements/Pro (Computer-Aided)
- Design Software
- Finite Element Methods

**UND Mechanical Engineering Major Alumni**

Mechanical Engineering alumni have gone on to a variety of successful careers with:

- Seconn Automation Solutions, Inc.
- 3M Company
- Cirrus Design Corporation
- The Boeing Company
- Center for Energy and Environment

**Top Online Mechanical Engineering Program**

UND is regarded as one of the top academic and research institutions in the nation for engineering. Our mechanical engineering program consistently ranks among the best for educational quality, affordability, and career outcomes.

**Top Online Engineering College in the Nation**

UND mechanical engineering graduates have gone to work at companies including:

- 3M
American Crystal Sugar
AMETEK
Arctic Cat
BAE Systems, Inc.
Blandin
Boeing
Boise Cascade
Cargill
Case IH
Caterpillar
Central Boiler
Cirrus Aircraft
Comm Dell Industries
Doosan Bobcat
Dow Chemical
Emerson
Epic
Erskine Manufacturing
Excel Energy
FCA North America
FedEx
Field of View
Fusion Automation
Goodyear Tire & Rubber
Harris Corporation
Hewlett Packard
Lund Boats
Marvin Windows
Mattracks
Minnkota Power
NASA
Northrup Grumman
Oakridge National Lab
Ottertail Power
PepsiCo
Philadelphia Macaroni
Daktronics
DELPHI
Honda R&D Americas
Polaris
Sandia National Labs
Steffes
TAG
Team Industries
Tesla
UTC Aerospace Systems
City and State Agencies
IBM
John Deere
Lockheed Martin
Dakota Gasification Company

Explore More Options
Looking to add a double major, pursue graduate work or connect with the mechanical engineering department?

- Mechanical Engineering Department
- Explore Similar Majors
- Pursue a Graduate Degree