Master the critical components, devices and electrical systems that make our world work.

Electrical engineers solve complex problems that pave the way for components and devices to run safely and energy efficiently in today’s powered society. If you want to expand your career opportunities, consider a Master of Science or Master of Engineering degree in Electrical Engineering. This graduate program offers hands-on experiences for a real-world understanding of electrical challenges and solutions.

Program Snapshot

Program type: Master’s Degree
Format: On-campus or online
Est. time to complete: 2+ years
Credit hours: 30

Why Study Electrical Engineering at UND?

Those with electrical engineering expertise are well-positioned to be a crucial talent in a society that is increasingly powered. Strong trends like energy efficiency, sustainability, security and health advocacy are powered by those with the right expertise to solve electrical problems. Through our electrical engineering master's program, you will develop:

- A comprehensive and in-depth understanding of electrical engineering through graduate-level challenging coursework.
- Critical thinking skills through research and project-focused activities.
- Preparation for rewarding careers at top global companies in a range of major industries.
- Skills to communicate the results of your research in an effective and professional manner.

Tailor your program to match your career goals by choosing courses in applied electromagnetics, biomedical engineering, power and energy systems, signal and image processing, wireless communications, cyber security, and unmanned systems.

M.S.E.E. vs. M.Eng.

UND offers both Electrical Engineering Master of Science (M.S.E.E.) and Master of Engineering (M.Eng.) degrees. It is recommended you connect with the Department of Electrical Engineering before making a final decision. However, in general, a M.Eng. program is more course-based, while the more popular M.S. program includes a thesis or research project/independant study.

Application Deadlines

FALL: Mar 1* | May 1
SPRING: Aug 1* | Oct 1
SUMMER: Dec 1* | Feb 1
*designates priority deadline

Program Highlights

- Collaborate on research opportunities with the Department of Mechanical Engineering, Department of Chemical Engineering, College of Nursing & Professional Disciplines, the John D. Odegard School of Aerospace and the School of Medicine & Health Sciences.
- Gain the broad and practical electrical component and device engineering knowledge valued in the job market.
- Participate in the annual NASA Robotics competition at the NASA Kennedy Space Center in Florida.
- Gain support from the U.S. Department of Energy’s National Renewable Energy Laboratory (NREL).

Outcomes

96K  Median annual wage for electrical engineers in 2016*
13% Engineers in various fields with a master's degree had a median salary up to 13% higher than their counterparts with a bachelor's degree.*

*U.S. Bureau of Labor Statistics

As an electrical engineer, you can work in a variety of industries such as electric utilities, aerospace manufacturing, telecommunications, engineering consulting firms and the federal government.

University of North Dakota graduates of the M.S.E.E. program have gone on to work at:

- Apple
- Amazon
- Emerson
- IBM
- John Deere
- Microsoft
- Rockwell Collins
- Siemens
- UTC Aerospace Systems

Beyond preparing you to work in private industry or government, your Master of Science in Electrical Engineering degree will prepare you for doctoral studies in electrical engineering or related fields.