

WHAT CAN I DO WITH MY MAJOR?

ELECTRICAL ENGINEERING

Electrical Engineering focuses on the study and application of electricity, electronics, and electromagnetism. This field involves designing, developing, and maintaining electrical systems and components, ranging from small-scale electronics to large power grids.

COMMON JOB TITLES * additional education or certification required post graduation

ENTRY & MID LEVEL POSITIONS

Circuit Design Engineer
Controls Systems Specialist
Electrical Distribution Engineer*
Electrical Drafter
Hardware Engineer
Robotics Engineer*

Electrical Power Systems Engineer*
Instrumentation Designer
Network Security Specialist
Project Engineer
Systems Engineer
Telecommunications Engineer

AREAS OF EMPLOYMENT: WHERE DO ELECTRICAL ENGINEERING MAJORS TYPICALLY WORK?

Automotive Companies: Peterbilt Motors, Tesla, Inc., Ford Motor Company

Steel Businesses: Nucor Steel, Tenaska, Valmont

Telecommunications Companies: Allo, Cox Communications, Lumen

Consumer Electronics: LG Electronics, Sony

Government: NE Dept. of Transportation, NE Public Power District,

Aerospace & Defense: Northrop Grumman, NASA, Dept. of Defense

Computer/Tech Companies: HP Inc., Google, Dell

Energy & Power Businesses: Aurora Cooperative, NextEra Energy Resource

Research Institutions: NE Engineering Innovation Center, PKI

Utility Companies: OPPD, MUD, Black Hills Energy

Medical Companies: Omaha Scientific Inc., Celerion, NAMSA

Robotics: Omaha Automation Inc., Kawasaki, Molex

IMPORTANT QUALITIES:

Transferable Skills Gained:

Creativity
Analytical Skills
Communication Skills
Teamwork & Collaboration
Critical Thinking
Problem Solving Skills

Concrete Skills Gained:

MATLAB
Python
C/C++
AutoCAD Electrical
Altium Designer

HOW TO DEVELOP YOUR SKILLS :

Get involved in an **ECE Student Organization** to learn more about the field, connect with other students, and participate in the community

Explore **ECE Research Opportunities** to collaborate with faculty and pursue your interests

Join **NESCO** to further advance your leadership skills, professionalism, and your future career goals

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MAJOR + MINOR SPECIALIZATION: HOW CAN I SPECIALIZE IN SOMETHING BEFORE I GRADUATE?

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Electrical Engineering + Engineering Leadership minor = Project Engineer/Systems Engineer

Electrical Engineering + Robotics Engineering minor = Robotics Engineer

Electrical Engineering + Environmental Engineering minor = Electrical Power Systems Engineer

OCCUPATIONAL OUTLOOK:

Electrical & Electronics Engineers

Environmental Engineers

EMPLOYMENT OPPORTUNITIES:

Check out daily job postings on **Handshake** related to accounting jobs, internships, and opportunities to boost your student experience

ADDITIONAL EDUCATION:

Graduate School

Getting a **Masters Degree** or **Doctoral Degree** could be beneficial depending on your career goals or desired area of study, as these advanced degrees can provide deeper specialization, research opportunities, and eligibility for higher-level positions in academia, research, or specialized engineering fields

More Information:

UNL Engineering Graduate Degree Programs

Licensure

The **Fundamentals of Engineering (FE exam)** is an exam that is required to pass before achieving licensure as a professional engineer (P.E.), targeting recent graduates and those nearing completion of their undergraduate engineering studies. More information here: FE Exam

To become a licensed Professional Engineer (PE), one must pass the **Principles and Practice of Engineering Exam (PE)**. To learn more about this exam and the licensure process, please visit the **National Council of Examiners for Engineering and Surveying (NCEES)**

OTHER RESOURCES :

UNL College of Engineering

Career Exploration in Career Services

U.S. Bureau of Labor Statistics: Occupational Outlook Handbook

NEED SOME EXTRA HELP?


Book an appointment with Career Services

Book an appointment with your Advisor


Career Services

 EAB 113

 6001 Dodge Street, Omaha, NE 68182

 402.554.3672

 careers.unomaha.edu

 careers@unomaha.edu

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