

Computer engineering integrates principles of electrical engineering and computer science to design, develop, and optimize hardware and software systems.

COMMON JOB TITLES * additional education or certification required post graduation

ENTRY & MID LEVEL POSITIONS

Application Engineer Computer Hardware Designer Systems Engineer* Control Systems Specialist Microprocessor Designer **Optical Communications Engineer** Software Engineer* Network Designer Instrumentation Designer Integrated Circuit Design Engineer* Robotics Engineer* **Project Engineer**

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

Technology Companies: Google, Microsoft, Apple

Electronic Manufacturing Companies: Jabil, Inc., Sanmina Corporation

Telecommunications Companies: Verizon, Cox Communications

Government: NASA, CIA, NSA

Consumer Electronics Companies: Dell, Garmin, John Deere **Healthcare Companies**: Cerner Corporation, Nebraska Medicine **Aerospace & Defense Businesses**: Offut Air Force Base, Honeywell Aerospace

Automotive Companies: Ford Motor Company, General Motors

Mechatronics Corporations: Rockwell Automation, ABB, Yaskawa America

Financial Institutions: Charles Schwab, FNBO, Mutual of Omaha

Universities/Colleges: UNO, UNMC, UNL

IT Service Companies: Lutz Tech, Firespring, Interpublic Group,

IMPORTANT QUALITIES:

Transferable Skills Gained:

Analytical Skills Communication Skills Creativity Problem Solving Project Management

Concrete Skills Gained:

C/CC+ Java Python SOL MATLAB

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



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

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Computer Engineering + Robotics minor = Robotics Engineer

<u>Computer Engineering + Engineering Leadership minor = Project Engineer</u>

<u>Computer Engineering + IT Innovation minor = Software Engineer/IT Project Manager</u>

OCCUPATIONAL OUTLOOK:

<u>Computer Hardware Engineers</u> <u>Software Developers</u> Network & Computer Systems Administrators

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 fields

More Information:

UNL Engineering Graduate Degree Programs

Licensure

Computer engineers are currently not required to obtain licensure, except in cases where it is a specific requirement by their employer

OTHER RESOURCES:

<u>UNL College of Engineering</u> Career Exploration in Career Services

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

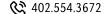
NEED SOME EXTRA HELP?

Book an appointment with <u>Career Services</u> Book an appointment with your <u>Advisor</u>

Career Services



6001 Dodge Street, Omaha, NE 68182





careers@unomaha.edu

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