# | CAREER SERVICES WHAT CAN I DO WITH MY MAJOR? ARCHITECTURAL ENGINEERING

Architectural engineering combines the principles of architecture and engineering to design and construct safe, efficient, and sustainable buildings. It emphasizes the integration of structural systems, environmental systems, and building materials to create functional and aesthetically pleasing structures.

# COMMON JOB TITLES \* additional education or certification required post graduation

### ENTRY & MID LEVEL POSITIONS:

**Acoustical Consultant** Architectural Engineer\* Design Engineer\* Sustainability Consultant **Building Code Analyst** CAD Technician

Project Engineer\* **Building Performance Analyst** Building Information Modeling (BIM) Manager Fire Protections Systems Engineer\* Architectural Engineer Manager\* Lighting Designer\*

# AREAS OF EMPLOYMENT: WHERE DO ARCHITECTURAL ENGINEERING MAJORS TYPICALLY WORK?

**Engineering Firms**: HDR, Schemmer **Corporations**: Intel, Accenture, Ford Motor

**Design-Build Firms**: DLR Group, RDJ Planning & Design, Mcnell

**MEP Firms**: Olsson, Alvine Engineering, M/E Engineering **Architecture Firms**: Holland Bashan, BCDM Architects

**Construction Firms**: Hawkins Construction, Ronco, NMG, MCL Construction **Government Agencies**: NE Dept. of Transportation, NE. Dept of Admin. Services

**Real-Estate Developers**: White Lotus Group, Lockwood Development

**Utility Companies**: OPPD, MUD

**Consulting Firms**: HDR, Inc., HGM Associates, Morrissey Engineering Inc.

# **IMPORTANT QUALITIES:**

### Transferable Skills Gained:

Analytical Skills Creative Skills Critical Thinking **Problem Solving Decision Making Skills** 

### **Concrete Skills Gained:**

Microsoft Office AutoCAD Revit **ETABS** SAFE

# HOW TO DEVELOP YOUR SKILLS:

Get involved in a Durham School Student Organization to learn more about the field, connect with other students, & participate in the community Attend **Durham School Events** to enrich your student experience and explore 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?

Architectural Engineering + Computer Science minor = CAD Technician

Architectural Engineering + Mathematics minor = Business Performance Analyst

Architectural Engineering + Engineering Management minor = Project Manager

# OCCUPATIONAL OUTLOOK: EMPLOYMENT OPPORTUNITIES:

Engineers
Architectural & Engineering Managers
CAD Designers

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

\* additional education or certification required post graduation

## 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. <u>More information here: **FE Exam**</u>

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:

**NEED SOME EXTRA HELP?** 

UNL Architectural Engineering & Construction

Career Exploration in Career Services

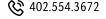
U.S. Bureau of Labor Statistics: Occupational Outlook Handbook

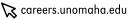
Book an appointment with <u>Career Services</u>
Book an appointment with your Advisor

### Career Services



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