

CAREERS IN... CONSTRUCTION ENGINEERING TECHNOLOGY



WHAT CAN I DO WITH A DEGREE IN CONSTRUCTION ENGINEERING TECHNOLOGY?

The Construction Engineering Technology concentration emphasizes the management aspects of the construction industry. Construction is the largest and most diversified industry in the U.S., accounting for approximately 10% of the gross national product. The key professional in this vast field is the construction manager. Construction management has the final responsibility for planning, scheduling, and constructing projects designed by architects and engineers. Graduates of this concentration are employed in both office and field positions in all realms of the construction sector.

The University of Akron offers both a bachelor's of science and an associate's of applied arts degree in Construction Engineering Technology. In addition, certificates are offered in construction management, heavy construction, materials testing, and residential building. For more information, visit the Construction Engineering Technology website at: <http://www.commtech.uakron.edu/?/engscitech/ConstructionTech2990.html>.

AREAS OF SPECIALIZATION

- Project manager
- Field Engineer
- Superintendent
- Office Engineer
- Scheduler
- Estimator
- Cost Engineer
- Project Engineer

REQUIRED SKILLS

- Active listening
- Mathematics
- Information gathering and organization
- Implementation planning
- Writing
- Problem identification
- Idea generation and evaluation
- Active learning

COMPANIES THAT HIRE

- Construction supervision
- Construction testing
- Construction inspection engineering companies
- All areas of federal, state, and local governments
- Public and private companies
- Construction estimating

PROFESSIONAL ORGANIZATIONS

- American Society of Civil Engineers www.asce.org
- Student Chapter of Associated General Contractors of America (AGC) www.agc.org
- University Of Akron's Society of Students in Construction www.commtech.uakron.edu/?/links/StdOrg.html

JOB AND EARNING OUTLOOK

According to the Occupational Outlook Handbook, opportunities in this field will be best for individuals with an associate degree or extensive job training in engineering technology. As technology becomes more sophisticated, employers continue to look for technicians who are skilled in technology and require little additional training. Engineers are expected to see average employment growth through 2014. Spurred by general population growth and an increased emphasis on infrastructure security, more civil engineers will be needed to design and construct safe and higher capacity transportation, water supply, and pollution control systems, as well as large buildings and building complexes. They also will be needed to repair or replace existing roads, bridges, and other public structures. Because construction and related industries—including those providing design services—employ many civil engineers, employment opportunities will vary by geographic area and may decrease during economic slowdowns, when construction often is curtailed.

The Occupational Outlook Handbook states that the median annual earnings of civil engineering technicians were \$35,990 in 2000. The middle 50 percent earned between \$27,810 and \$44,740.

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ZIPPY MASCOT

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OBJECTIVE

Seeking a Spring 2004 Co-op in the field of Construction Engineering Technology

EDUCATION

Bachelor of Science Construction Engineering Technology

The University of Akron

Major: Construction Engineering Technology

- Dean's List

Expected, May 2004

Akron, OH,

GPA: 3.5/4.0

RELEVANT COURSE WORK

PeopleSoft

PowerPoint

Lotus 1-2-3

MS Word

Auto CAD

Primavera Project Planner

Excel

Wolf Pack

RELATED EXPERIENCE

Project Manager Co-op

Ohio Department of Transportation

Summer 2003

Cleveland, OH

- Inspected project site and evaluated contractor work to detect design malfunctions
- Assisted in analyzing proposed site factors, and designed maps and diagrams to illustrate findings
- Planned and conducted field surveys to locate new sites and analyze details of project sites
- Developed plans and estimated costs for the construction of a road structure

Field Engineer Co-op

City of Akron

Summers, 2001- 02

Akron, OH

- Drafted detailed dimensional drawings and designs layouts for projects to ensure conformance to specifications
- Read and reviewed project blueprints and structural specifications to determine dimensions of structure or system and material requirements
- Calculated dimensions, square footage, profile, and component specifications, and material quantities, using computer or calculator

Administrative Assistant

Configuration Services, Inc.

1997 - Present

Cleveland, OH

- Planned regular interdepartmental meetings to synchronize company efforts and troubleshoot organizational concerns
- Increased office efficiency by training office staff on appropriate software applications
- Compiled in-depth contract reports, processed mail, maintained customer records, and answered in coming calls

ACTIVITIES

Yearly participant in Harvest for Hunger

Youth Soccer coach

2004 - Present

2002 – Present

REFERENCES

References and additional information available upon request