



## Major/ Career Connections

**Major Profile: Construction Engineering Mgt. Technology (RIE)**

*School of Engineering & Technology*

*Realistic Interest Cluster*

## Is Construction Engineering Management Technology for me?

Find out by answering the following questions. If you answer yes to most of them, read on to learn more. If not, try one of the other **Major Profiles** (<http://uc.iupui.edu/students/academics/mccs.asp>).

	No	Yes
Are you realistic, investigative, or enterprising (see <b>Interest Cluster</b> sheets)?	<input type="checkbox"/>	<input type="checkbox"/>
Do you have an analytical approach to solving problems?	<input type="checkbox"/>	<input type="checkbox"/>
Do you like to follow detailed instructions or plans to create things?	<input type="checkbox"/>	<input type="checkbox"/>
As a child did you like to play with Lego's or build models?	<input type="checkbox"/>	<input type="checkbox"/>
Do you like to experiment with using tools or devising your own?	<input type="checkbox"/>	<input type="checkbox"/>
Was physics, math, or technical course work your favorite subject?	<input type="checkbox"/>	<input type="checkbox"/>
Do you enjoy managing a team through completion of a project?	<input type="checkbox"/>	<input type="checkbox"/>

## What is Construction Engineering Management Technology?

Construction Engineering Management Technology is a curriculum intended to prepare students for leadership positions in the construction industry through knowledge in areas of construction contract administration, specification writing, construction field operations, construction scheduling/project control, construction costs and bidding, and construction management. Additional course work in economics, law, management, mathematics, lab sciences, and written and oral communication is also included.

### What Courses Will I Take?

- Technical Graphics Comm.
- Civil Eng Drafting
- Construction Mech. & Electrical
- Construction Accounting
- Surveying Fundamentals
- Construction Cost & Bidding
- Construction Scheduling
- Project Management
- Hydraulics and Drainage
- Soils & Foundations

### What are Some Related Majors?

- Aircraft Mechanic(REI)
- Construction Inspector (REI)
- Optometry Technology (REI)
- Professional Aircraft Pilot (RIE)
- Automotive Engineering Technology(REI)
- Electrical Engineering Technology(REI)
- Systems Engineering (ERI)
- Drafting (IRE)
- Geography (IRE)

### What Skills Will I Develop?

Construction Engineering Management Technology majors develop skills to build projects, prepare construction estimates, generate project schedules, handle field operations, administer construction contracts, use surveying equipment, perform structural designs (wood, concrete, and steel structures), understand accounting principles, determine economical feasibility, and communicate with others effectively (*IUPUI's Department of Construction Engineering Management Technology, 2008*).

## Where Could I Work?

Graduates of the program are prepared for employment with architects, contractors, building product companies, consulting engineering firms, utilities, and state and other government organizations (*IUPUI's Department of Construction Engineering Management Technology*, 2008).

## What Job Opportunities Exist?

### Related Careers

According to a national survey of college graduates, most graduates from bachelor's level Industrial Production Technology programs work in occupations that are closely or somewhat related to their degree, and are employed in the private for-profit sector of the economy (*The College Majors Handbook*, 2004). Following are some jobs Construction Engineering Management Technology majors might pursue (*IUPUI's Department of Construction Engineering Management Technology*, 2008).

- Project Managers
- Construction Managers
- Superintendents
- Field Engineers
- Estimators
- Schedulers
- Construction Supervisors
- Owners Representatives

### Employment Outlook

According to the *Occupational Outlook Handbook* (2008-09), employment for Drafters is expected to grow slower than average through 2016, while Cost Estimator, Construction and Building Inspector, and Construction Management jobs are expected to grow faster than the average. Job opportunities are expected to be excellent in the construction industry as a whole (*OOH*, 2008-09).

### Salary Expectations

Median annual earnings of architectural and civil drafters were \$41,960; \$52,940 for cost estimators; \$46,570 for construction and building inspectors; and \$73,700 for construction managers (*OOH*, 2008-09). The summer 2008 National Association of Colleges and Employers Survey reports the average starting salary for graduates with a bachelor's degree in Construction Science/Management was \$51,942 per year.

## What Graduate/Professional School Opportunities Exist?

After working in the field for a few years, employers typically approach graduates and encourage them to continue in their studies. Often work experience help graduates pursue Master's degrees in areas like Business Management and Administration. Others may decide to pursue graduate studies in Architecture or Civil Engineering.

## Where Can I Get More Information?

# IUPUI

Department of Construction Engineering Management Technology	<a href="http://www.engr.iupui.edu/cemt/">http://www.engr.iupui.edu/cemt/</a> <b>Office:</b> SL174 <b>Phone:</b> 274-9713
Academic Advising at IUPUI	<a href="http://uc.iupui.edu/students/academics/index.asp">http://uc.iupui.edu/students/academics/index.asp</a>
Career Counseling at IUPUI	<a href="http://uc.iupui.edu/students/career/index.asp">http://uc.iupui.edu/students/career/index.asp</a>
Construction Technology Today	<a href="http://www.constructiontechnologytoday.com/">http://www.constructiontechnologytoday.com/</a>
Building and Fire Research Laboratory	<a href="http://www.bfrl.nist.gov/top/Organization.htm">http://www.bfrl.nist.gov/top/Organization.htm</a>
Constructions Jobs	<a href="http://www.constructionjobs.com/">http://www.constructionjobs.com/</a>