

BECOME A **CIVIL ENGINEER** CHANGE THE WORLD

Engineers design, build, or maintain engines, machines, systems or public works.

Civil Engineers design elements of civil society, our natural and physically built environment including roads, bridges, airports, buildings and waterways.



Civil Engineering Careers

Engineering is a rewarding career that enhances our civil society:

- Connect people to places and **everyday life amenities** (roads, drinking water, etc.)
- Contribute to a **cleaner environment**.
- **Aid victims of disasters** by assessing environmental human health impact.
- Foster **teamwork and collaboration** with other partners in the design and **construction industry**.
- Civil consulting firms hire both **high school and college interns**.
- **Strong job security** in Indiana; historic investment funded by federal, state and local governments, as well as private investment.

Other Industry Careers

The civil engineering construction industry has a variety of career opportunities:

- **Engineers** offer professional planning, design and construction services.
- **Land Surveyors** determine precise boundaries and depths for foundations to help map optimal routes for construction.
- **CAD Technicians** create electronic design plans for all aspects of civil engineering, using computer-aided design software.
- **Construction Inspectors** inspect the project throughout development to ensure it complies with construction plans.
- **Field Technicians** handle on-site sampling and testing of construction materials and operations.
- **Environmental Scientists** use their knowledge of the natural sciences to protect the environment and human health.

We're here to help!

The American Council of Engineering Companies of Indiana serves as a unified voice for the business interests of engineering companies.

We are committed to developing a diverse and sustainable workforce for the consulting engineering industry.



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**EDUCATION
REQUIREMENTS**
FOR FUTURE
ENGINEERS



CIVIL ENGINEERING EDUCATION



Civil Engineering Education in Indiana

There are many great colleges and universities to choose from in Indiana, but students interested in civil engineering should enroll in an ABET-accredited institution or a related career program. The following Indiana institutions offer a **Bachelor's of Civil Engineering, leading to PE Licensure:**



The following institutions offer programs aligned with our industry, such as **Surveying, Construction Management, and other Engineering disciplines:**



SCAN TO
LEARN ABOUT
**ACEC INDIANA
SCHOLARSHIPS**
FOR COLLEGE
STUDENTS



Engineering Education Step-by-Step

- **Demonstrate necessary skills** ranging from a strong aptitude in mathematics, studying and analysis to problem-solving, creativity and teamwork.
- **File your FAFSA** (Free Application for Federal Student Aid) and any other **scholarships and grants** early to ensure the greatest chance at receiving financial aid.
- **Enroll in an engineering program** at an ABET-accredited institution (or a short-term credential for related careers).
- **Complete an internship** and make connections with industry professionals.
- Apply for **ACEC Indiana Scholarships** as a college junior, senior or Master's student (\$15,000+ awarded annually).
- **Pass the FE Exam** (Fundamentals of Engineering) before college graduation.
- **Pass the PE Exam** (Professional Engineer) after four years of employment to become licensed "PE."
- **Complete continuing education** programming to maintain licensure.