

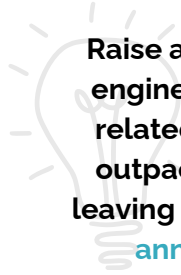


Many industries, including engineering, face a shortage of skilled professionals. Over 50% of Indiana's consulting engineering firms face difficulties in filling salaried professional positions due to lack of available talent. Simply put, **there are not enough Hoosier students obtaining degrees in civil engineering, if they attend college at all.**

We need your help to build our pipeline of Hoosier engineers!

EDUCATORS & COUNSELORS

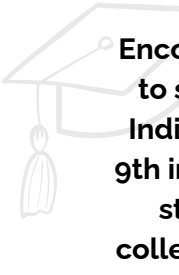
It is critical to provide early STEM exploration activities and access to explore real-time, real-world application of STEM fields. **Exploration of engineers disciplines ~early and often~ will help students develop a STEM identity and build confidence on their educational journey.** It also provides opportunities to explore career options and make critical decision about post-secondary education, training and more. **You can help by advocating for the industry:**



Raise awareness of the civil engineering profession and related careers. Demand is outpacing available talent, leaving Indiana's firms with an **annual gap of 50-100 entry-level hires.**



Increase opportunities for the engineering industry to engage with students earlier in their education. **Only 20% of Indiana STEM graduates are engineers.**



Encourage Hoosier students to seek their education at Indiana colleges. Indiana is 9th in the nation in attracting students to Indiana for college, but **36th in retaining college graduates.**

WHY INDIANA IS BEST FOR CIVIL ENGINEERING

Educational Opportunities & Financial Aid | Indiana is home to many esteemed universities including 13 ABET-accredited* engineering colleges that provide excellent resources for both education and networking. **Indiana is also 1st in the Midwest, 5th in the nation, for offering need-based financial aid to full-time Hoosier students.**

Growing Job Market | Indiana's economy is robust, with a growing demand for civil engineers. **Indiana has seen significant investments in infrastructure, creating ample job opportunities in sectors such as transportation, utilities, and construction.** Indiana has ranked in the top 10 in CNBC's annual Top States for Business Report in the infrastructure category for the past decade.

Quality of Life & Cost of Living | **Indiana offers a balanced lifestyle with a mix of urban amenities and natural beauty.** Cities in Indiana offer a blend of urban, suburban, and rural living options, allowing civil engineers to work near major projects without high housing costs. **Housing in Indianapolis is 7% lower than the national average.**

Strong Professional Networks | **Professional organizations focused on engineering, like ACEC Indiana, the American Society of Civil Engineers (ASCE) and Women in Transportation Symposium (WTS), have active chapters in Indiana.** These professional associations provide networking events, seminars, and career development resources.





ACEC *Indiana* ENGINEERING ED

a quarterly update from the civil
engineering consulting community

What is a Civil Engineer? What is a Consulting Engineer?

Civil Engineers design elements of civil society, our natural and physically built environment. **Civil Engineers are integral in shaping our communities and our world—designing our highways, bridges, tunnels and transit systems; modern buildings, schools and hospitals; energy-efficient mechanical, electrical and fire safety systems; and water and wastewater treatment plants.** Consulting engineers are licensed professionals in the private sector who provide design services and expertise to both public and private entities.

What is ABET-Accreditation*?

ABET accreditation provides assurance that a college or university program meets the quality standards essential to prepare graduates to enter critical STEM fields. **Graduates from an ABET-accredited program have a solid educational foundation and are capable of leading the way in innovation, emerging technologies, and in anticipating the welfare and safety needs of the public.**

What is ACEC Indiana doing to support workforce development?

ACEC Indiana is committed to being 'part of the solution' and volunteering introducing young minds to STEM concepts through hands-on activities. We aim to foster a culture of innovation and entrepreneurship, driving interest and diversity to our industry. Currently, volunteers are available to:

- Participate in speaking opportunities (National Engineers Week in February, STEM Education Week, etc.).
- Participate in college/career fairs.
- Engage with students at industry spotlights/panels.
- Recruit and hire college students as interns or apprentices.
- Partner on the development of innovative solutions to address industry challenges.
- Support industry-focused needs of Indiana's colleges and universities.

ACEC *Indiana*

The American Council of Engineering Companies (ACEC) is a federation of 51 state and regional councils, including Indiana, that **serves as a unified voice for the business interests of engineering companies. ACEC Indiana represents over 135 engineering and associate firms in Indiana, over 5,000 employees.** ACEC Indiana is committed to attracting talent for the consulting engineering industry to develop a diverse, sustainable workforce.

 lwalker@acecindiana.org

 317-637-3563



 Find more educator resources for
engineering at ACECIndiana.org