

# What are our graduates saying about the construction engineering program?



My construction technology class taught me to think about problems more comprehensively and logically and I am excited to explore all of its possibilities to make the construction industry safer.

Yizhou Xiao

One thing that was surprising about the construction engineering major is that it contains aspects of both civil engineering and construction management, so I got to understand both sides.

Ryan Laverdiere



Construction engineering is never the same. There are always new problems to be solved which are constantly changing. The people in the industry make it fun as well, especially working towards the same goal and accomplishing it as a group.

Ashley Colaizzi



# We built that.

Del E. Webb  
School of Construction



ASU Ira A. Fulton Schools of Engineering  
Arizona State University

## Are there opportunities to connect with other engineering students, faculty and industry?

There are a number of **active student organizations on campus that regularly host events**, professional development activities and even industry mixers. Active student clubs include: Associated General Contractors, Advancing Women in Construction, Construction in Indian Country, Design-Build Institute of America, North American Society for Trenchless Technology and the American Society of Civil Engineers. We also have an honor society for construction/civil engineering majors, Chi Epsilon at ASU.

**The Del E. Webb School of Construction has a strong bond with industry partners** who work to create opportunities for our students. Our executive committee helps guide our program to ensure graduates are ready for industry careers. The Industry Partner Circle helps provide financial support to keep our program strong and one of the best in the nation.

**School of Sustainable Engineering and the Built Environment**  
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The **Del E. Webb School of Construction** is housed in the **School of Sustainable Engineering and the Built Environment**, also known as SSEBE, one of the seven schools in the Ira A. Fulton Schools of Engineering. SSEBE is not only home to the construction management and technology and construction engineering programs, but also the civil engineering, environmental engineering, and sustainable engineering programs. This unique collaboration enables our faculty, students, alumni and industry partners to help address and solve issues related to the construction and sustainability of the built environment in our communities, both locally and globally.

# Construction engineering

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[ssebe.engineering.asu.edu/dewsc](https://ssebe.engineering.asu.edu/dewsc)

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# What is construction engineering?

**Construction engineering** focuses on planning, design and management for building infrastructure projects such as **highways, pipelines, bridges, airports, railroads, industrial plants, buildings, dams and reservoirs**. The construction engineering degree prepares students who wish to gain a professional engineering license, while working at the interface of design activities and field construction.

## What will I study?

The construction engineering degree program combines **engineering design and construction management courses** with a focus on **heavy infrastructure and exposure to sustainability and building information modeling topics**. This includes coursework in contract management, construction methods, cost and schedule control, people management and project estimating. The design content includes **structures, geotechnical and transportation engineering**. You will be further prepared to succeed with computer, management and people skills. The curriculum prepares students for licensed Professional Engineer (PE) registration.

The construction engineering BSE degree program at Arizona State University is accredited by the Engineering Accreditation Commission of ABET, the **Accreditation Board for Engineering and Technology** ([www.abet.org](http://www.abet.org)).

## Do I need any construction experience to enter this program?

No, we will teach you **engineering design, management, leadership and communication skills** needed to succeed in industry. All construction engineering students are required to complete at least one paid summer internship.

## Are there hands-on learning and research opportunities?

There are a number of programs offering students hands-on experience and mentorship from faculty and staff, including the **Fulton Undergraduate Research Initiative**, or FURI, and the **Grand Challenges Scholars Program**, or GCSP. There are also opportunities for students to complete internships with industry and government partners. Many classes also include project site visits to enable students to better understand real-world applications of what they learn in their classes.

## What do construction engineers do?

Construction engineers hold jobs as field engineers, project engineers or project designers working for **facility owners, design firms, construction companies, trade partners or material suppliers**. As a career progresses, many construction engineers take on leadership roles in the construction field or choose to start their own companies.

## What is the job outlook?

As long as there are people who rely on infrastructure to live and work, there will be a need for construction engineers to design, create and maintain it. The job outlook for construction engineers is excellent.

## Is construction engineering a good career for women?

Increasingly, women pursuing construction careers are in demand by government agencies, engineering firms and construction companies. Women find the construction engineering profession to be an extremely rewarding career choice. **Our program has a very successful mentoring program for female students, including a strong partnership with Advancing Women in Construction**, which pairs them with women in the construction industry who know what it takes to be successful. Find out more at [awic.engineering.asu.edu](http://awic.engineering.asu.edu).



## What resources and support are available to students in the construction engineering program?

In addition to resources offered by ASU, the Ira A. Fulton Schools of Engineering hosts a number of tutoring centers open to students at all levels of their academic career. The Fulton Schools also has an **engineering-focused career center** that can help students create winning resumes and connect students with internships or jobs.

The School of Sustainable Engineering and the Built Environment, where the construction engineering program and the Del E. Webb School of Construction are located, also has its own team of academic advisors who **work with students one-on-one to help students achieve their educational and career goals**.

