

# Civil Engineering

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## About the Major:

Those who study civil engineering will learn how to conceive, design, build, supervise, operate, construct and maintain infrastructure projects and systems in the public and private sector, including roads, buildings, airports, tunnels, dams, bridges, and systems for water supply and sewage treatment. Many civil engineers work in planning, design, construction, research, and education.

## Marketable Skills Developed in this Major/Minor:

- Analyze long range plans, survey reports, maps, and other data to plan and design projects
- Calculate dimensions, square footage, profile and component specifications, and material quantities
- Use computer-aided design (CAD) and other computer software programs to create models
- Draft detailed dimensional drawings and design layouts for projects to ensure conformance to specifications
- Prepare reports, document project activities and data

## Relevant Fields:

- Structural
- Urban planning
- Construction
- Environmental
- Water resources
- Transportation
- Geotechnical

## Sample Occupational Titles with a Bachelor's Degree:

- Civil Designer
- Transportation Engineering Technician
- Civil Engineering Technician
- Design Technician

## Professional Associations:

- [Architecture, Engineering, Consulting, Operations, and Maintenance \(AECOM\)](#)
- [Kimley-Horn](#)
- [Jacobs](#)

## Career Opportunities and Job Outlook:

Employment of civil engineers is projected to grow 7 percent from 2021 to 2031, about as fast as the average for all occupations. About 24,200 openings for civil engineers are projected each year, on average, over the decade.

## Salary Estimates:

The median annual wage for civil engineers was \$88,050 per year in May 2021.

(This section is intended for informational purposes, not prediction of actual salary.)