



**South Dakota
High Demand
&
High Wage
Career**



**Career Cluster:
Architecture & Construction**

Civil Engineers

What They Do

Plan, design and supervise construction of building structures and facilities, including roads, buildings, airports, pipelines, tunnels, dams, bridges and systems for water supply and sewage treatment.

Is This For You?

Work Interests are described in the following categories (compatible with Holland's Model). People who tend to succeed in this career are:

Realistic (Doers) — Prefer to work with objects, things, machines, tools, plants or animals. They have mechanical ability, enjoy being outdoors and working with their hands.

Investigative (Thinkers) — Interested in science and logic. They like to analyze, evaluate and solve problems, and enjoy learning and understanding the causes of events.

Standard Occupational Code 17-2051

Work Values are aspects of work that are satisfying to you. The following work values are generally associated with this career.

Independence — Allow employees to work on their own and make decisions.

Working Conditions — Offer job security and good working conditions.

Recognition — Offer advancement, potential for leadership, and are often considered prestigious.

Abilities reflect a person's aptitude to acquire skills and knowledge. The following abilities are important for success in the career.

- Deductive Reasoning
- Inductive Reasoning
- Oral Comprehension
- Oral Expression
- Problem Sensitivity
- Written Comprehension
- Written Expression

Basic Skills You Need

- Active Listening
- Complex Problem Solving
- Critical Thinking
- Mathematics
- Reading Comprehension
- Speaking
- Science
- Systems Analysis

Education & Training

Civil engineer positions require the minimum of a bachelor's degree in civil engineering or a related program. Some employers prefer a master's or even a doctoral degree. Civil engineers must be licensed by the South Dakota Board of Technical Professions. For more information, please see the South Dakota Board of Technical Professions website at <https://dlr.sd.gov/btp>.

Recommended Levels* for the National Career Readiness Certificate

Applied Math	6
Workplace Documents	6
Graphic Literacy	6

*Using the median skill level.

Where They Work

The South Dakota industries which employ the largest number of civil engineers are:

- State Government, excluding Education and Hospitals
- Local Government, excluding Education and Hospitals
- Federal Government, excluding Post Office

South Dakota Employment & Wages

2022 Employment	2032 Employment	Numeric Change	Percent Change	Average Annual Openings	Annual Median Wage	Annual Average Wage
1,435	1,565	130	9.1%	101	\$95,110	\$96,590

Additional References

Labor Market Information Center

www.dlr.sd.gov/lmic

Career OneStop

www.careeronestop.org

O*Net Online

www.onetonline.org

mySkills myFuture

<https://www.myskillsmyfuture.org/>

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Labor Market Information Center
South Dakota Dept. of Labor and Regulation
605.626.2314

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