

More South Dakota Hot Careers

Beyond the
Top **30**



High Demand & High Wage Career

Career Cluster:
Architecture & Construction

Civil Engineers

Standard Occupational Code 17-2051

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.

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.

Achievement — Results oriented and allow employees to use their strongest abilities, giving them a feeling of accomplishment.

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:

- Professional, Scientific and Technical Services
- State Government, Excluding Education and Hospitals

South Dakota Employment & Wages

2020 Workers	2030 Workers	Numeric Change	Percent Change	Average Annual Demand for Workers	Annual Median Wage	Annual Average Wage
1,264	1,472	208	16.5%	116	\$81,480	\$86,710

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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Provided By

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

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