

CAREERS IN SUSTAINABILITY

Civil Engineers (Water Industry)



What do civil engineers do?

Civil engineers are involved in the construction and maintenance of infrastructure that is needed to keep towns and cities functioning. Some may specialize in working on water systems to:

- Ensure their community has safe drinking water.
- Create environmentally friendly ways to manage water resources.

You can also see civil engineers working on buildings, roads, bridges, and other structures.

Their work includes:

You are using similar skills when you:



Use computer models and other data to understand how well water treatment and filtration systems work.

Recognize patterns and use them to predict results or make systems better (e.g., sports, video games, sleep patterns, etc.).



Brainstorming creative ways to solve water management and filtration problems.

Build or create things using paper, cardboard, or other materials.



Comparing and contrasting different design solutions, considering cost and effectiveness.



Creating drawings and graphs to better explain information to other people.

Visually express your ideas through sketches or digital drawings.



Learn more!

Watch "[Where Your Water Comes From](#)" on YouTube (2:35 min) to learn more about how water reaches your community and the systems that ensure it is clean.



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These career exploration resources were developed in collaboration with [Santa Clara County Office of Education](#)