

Engineering the Water Treatment System by Kaitlyn Dougherty

Engineering ways to make clean and safe drinking water is a critical role in the water industry. Engineers estimate costs, make sketches, and do research on the environmental impact of their design. They have to plan how water treatment systems can be better and benefit their economy. Engineers are one of the most important jobs in the water industry. It takes much thinking, researching, and planning.

Water treatment engineering requires a Bachelor's degree, including courses in mathematics, science, and computer skills. For this job, designing suits, preventing pollution, and inspecting facilities are some skills needed in order to be an engineer. Their abilities must include hands-on assistance, supervising equipment operators, and communication between workers. They must know how to work with computers, deal with chemical safety, and find the best way to protect and care for water sources. Engineering in the water industry is important because engineers find the best ways to care for water, keep workers safe, and keep the environment safe.

I've always been interested in engineering, but engineering with the water industry is twice as interesting. I love finding ways to improve things and help my environment, so this job would be perfect for me. I understand how vital water is to my community, so helping make the industry better would be a profound job. I would love designing safety for workers, inspecting facilities for insight on better designs, and finding better ways to store and treat water. I've never

imagined the engineering processes that have to happen in order to treat and store water. I've always just turned on the tap and got my water without really thinking about the process that has to be undergone in order to make it safe to drink. It's a more complex process than one would think; it requires so many different specialties. I love to think about the design processes to everything about treating water, and considering my love for engineering, I would probably enjoy this job immensely.

Engineering is in everything, but sometimes you don't truly think about everything that had to go into the process. Water treatment is something that no one would think takes much to design, but between finding ways to protect water sources, designing suits for workers, and dealing with chemical safety, the process is so complex! Researching this subject has really opened my eyes to the complexity of water treatment design. I love engineering, and I would love designing better water treatment systems and protecting my environment!

Works Cited

“Engineer.” *Work for Water*, 2021, <https://www.workforwater.org/careers-in-water/>. Accessed 9 September 2021.