



STUDENT ACTIVATION



Facilities Engineer



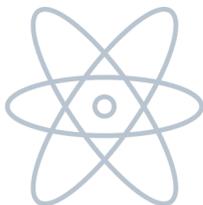
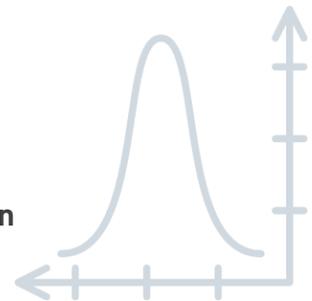
OVERVIEW

Facilities Engineers design and construct facilities such as oil platforms, refineries, dams, hospitals, and auto plants. These engineers, with a team of other facility engineers and professionals, plan all aspects of improving a facility or building a new one. They consider everything from labor costs and procedures to reviewing the construction of the facility. Facilities Engineers could be working for any company focused on building or renovating facilities in industries such as oil and gas, water management, construction, and government. Facilities Engineers have a future that includes designing facilities to be safe and effective in some of the most challenging locations.



EVALUATE YOUR INTEREST

- I like the idea of working on large scale projects in technology fields.
- I enjoy planning and seeing a project through to its completion.
- I like to write and communicate with others, supporting my points with data.
- I like the idea of seeing my plans come to life in surprising ways.
- I enjoy paying attention to detail and keeping things organized.



Facilities Engineer

STUDENT ACTIVATION (CONTINUED)



CAREER CONNECTION

How does this career affect me?	What are some other similar careers?	How does this career affect the world? 
<p>Facilities Engineers design products that form the backbone of society. Your natural gas, water, and oil are all harvested from the environment using projects these engineers have seen from start to finish. The infrastructure that supports your daily life, such as roads, trash processing, and municipal water, is all made possible on the local level by facilities created by these engineers. Some places in the world, such as California, U.S. and Cape Town, South Africa, would have severe drought without facilities that process saltwater into drinking water. Facilities Engineers build the structures needed to keep our modern society functioning.</p> 	<p>Pant Engineers support a current facility in enhancing performance and reliability. They support equipment, systems, documentation, and training. Plant engineers find ways of saving energy, reducing operating costs, and reducing environmental impact.</p> <p>Electrical Facilities Engineers provide project management, electrical design, and maintenance support services for new and existing buildings. They review data concerning facility or equipment specifications, company or government restrictions, and feasibility.</p> <p>Facilities Managers manage multiple functions of building operations and maintenance for a facility, campus, or portfolio of buildings. They coordinate, oversee, and/or manage repair and maintenance work assignments performed by technicians, vendors, and contractors. They may be performing building maintenance, landscaping, or janitorial work.</p>	<p>Facilities Engineers create facilities that make it possible for society to function on a large scale. The larger the community, the more significant the support systems they need. If everyone had to find their own water, power, and food, we would have a very different society. Turning on the tap and getting a glass of clean drinking water is central to modern life. Turning on a light switch and having the room brighten is taken for granted in many places. Without facilities to distribute the power, clean the water, and process the raw materials to create energy, none of those things would be possible. Facility Engineers create those facilities and do so with goals of efficiency, safety, and environmental protection in mind.</p> 

TAKE ACTION

- Investigate your home or school for ways facilities support your life. Do you have a well or city water, gas, oil, or electric heat? Where does your trash go? Then, consider how much effort you would exert to do those things all yourself. Compare the cost versus the time and effort you would have to use to accomplish those tasks. Could you do those things yourself? Once you have all the data, share it with your family or school!
- Contact a local facility, such as a recycling center or an electric plant, and ask if you can go for a tour. Prepare a list of questions beforehand and investigate what had to be done to plan and design the facility. If you know a worthy cause that this company could consider contributing to, be sure to recommend it!
- Put your design and planning skills to the test as you design and plan an event for your community. Follow a planning process like flow charting or diagramming to develop all the needed parts to make your plan. Delegate tasks to people and manage the event. Have fun, and enjoy your event!