



## MAKE A DIFFERENCE!

In simple terms, engineers produce creative solutions to real world problems. They study high level math and science and use that knowledge, along with their creativity and imagination, to identify problems and come up with practical ways to change things so they perform better and make things better for us.

## JOB DUTIES

**Civil Engineers** design, build, supervise, operate, and maintain construction projects and systems in the public and private sector, including roads, buildings, airports, tunnels, dams, bridges, and systems for water supply and sewage treatment.

**Environmental Engineers** use the principles of engineering, soil science, biology, and chemistry to develop solutions to environmental problems. They are involved in efforts to improve recycling, waste disposal, public health, and water and air pollution control.

**Mechanical Engineers** research, design, develop, build, and test mechanical and thermal sensors and devices, including tools, engines, and machines. They also design and oversee the manufacture of many products ranging from medical devices to new batteries.



## SALARY

Many jobs in the various fields of engineering offer excellent salary and benefits packages.

### CAREER

CAREER	SALARY RANGE
Engineering Technician	\$40,260-\$70,054
Civil Engineer	\$55,271-\$93,018
Project Engineer	\$61,496-\$103,272
Assistant Director of Engineering	\$64,243-\$131,388
Chief Engineer	\$71,116-\$141,156
Public Works Director	\$75,000-\$164,212

Source: Mid-America Regional Council 2016 Local Government Salary Survey

## WORK ENVIRONMENT

Engineers mostly work in labs, building sites, plants and offices. Some often work outdoors at construction, exploration and production sites, monitoring operations and working to fix onsite problems. Some engineers will need to travel extensively to different sites.

## HIRING OUTLOOK

The engineering field is expected to add about 65,000 new jobs from 2014 to 2024. According to the U.S Bureau of Labor Statistics, civil engineering jobs will increase 8 percent, environmental engineering 12 percent and mechanical engineering 5 percent.



Find your path in ...

# ENGINEERING

# ADVANCEMENT OPPORTUNITIES

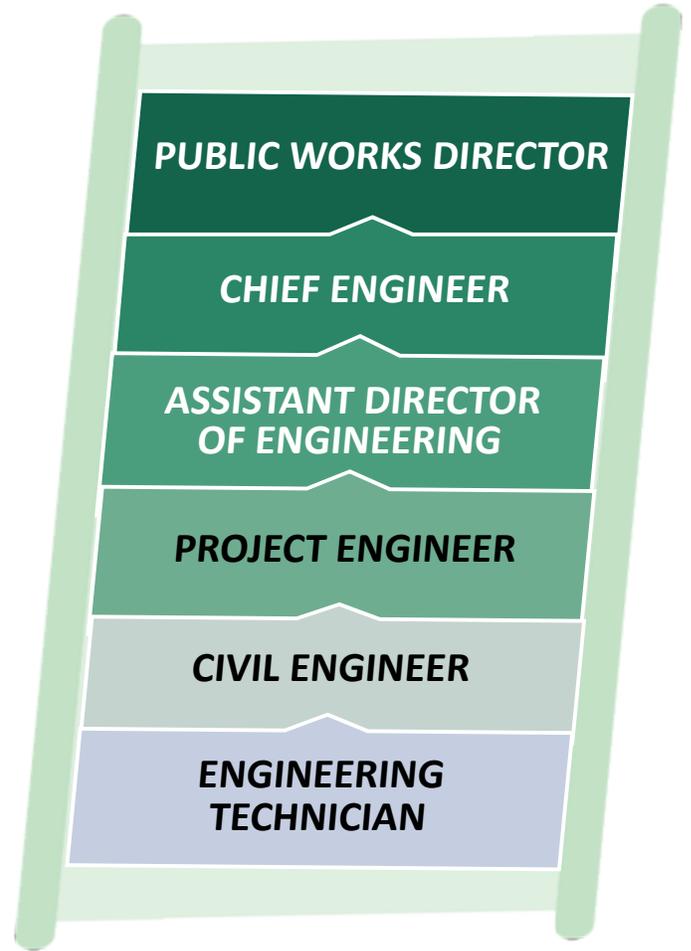
A graduate degree, typically in engineering or business administration, is essential for advancing your engineering career. An engineering master's or management degree can make you eligible for a supervisory, senior management or board-level job.

Many types of engineering positions are available, such as engineering technician, civil engineer, project engineer, project manager, chief engineer and director of public works.



## TOP SKILLS

- Advanced Mathematics
- Drafting
- Problem Solving
- Collaboration
- Communication
- Precision
- Analytical
- Organized
- Strategic



## EDUCATION

Most engineering jobs require a bachelor's degree in engineering. The institution from which you receive your degree also needs to be accredited by the Accreditation Board of Engineering and Technology. All states in the United States require aspiring engineering graduates to obtain professional engineer licenses if they wish to offer their services directly to the public.

