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.

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.

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

<table>
<thead>
<tr>
<th>CAREER</th>
<th>SALARY RANGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering Technician</td>
<td>$40,260–$70,054</td>
</tr>
<tr>
<td>Civil Engineer</td>
<td>$55,271–$93,018</td>
</tr>
<tr>
<td>Project Engineer</td>
<td>$61,496–$103,272</td>
</tr>
<tr>
<td>Assistant Director of Engineering</td>
<td>$64,243–$131,388</td>
</tr>
<tr>
<td>Chief Engineer</td>
<td>$71,116–$141,156</td>
</tr>
<tr>
<td>Public Works Director</td>
<td>$75,000–$164,212</td>
</tr>
</tbody>
</table>

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

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.

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