The duties of engineers and architects often interact, but each profession has its own unique skills and responsibilities. Engineers apply math and science to develop safe and innovative products that meet the needs of people and industry. Architects design structures and indoor and outdoor spaces to create engaging experiences for people at home, work or play.

**Career Options**

Engineering graduates may work in a variety of industries, such as construction, biomedical, environmental and computer networks. Architecture occupations include designer, project manager, landscape or interior architect.

**Hiring Outlook**

Kansas City has long had a strength in global design occupations. Over the next 10 years Kansas City companies will hire (due to growth and replacement) over 17,000 people.

**Salary**

Many jobs in engineering and architecture offer excellent salary and benefits packages. Below are the average wages for several high-demand professions.

<table>
<thead>
<tr>
<th>CAREER</th>
<th>AVERAGE STARTING WAGE</th>
<th>AVERAGE ANNUAL WAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architects (except landscape and naval)</td>
<td>$44,000</td>
<td>$74,500</td>
</tr>
<tr>
<td>Civil Engineering Technicians</td>
<td>$35,500</td>
<td>$54,300</td>
</tr>
<tr>
<td>Civil Engineers</td>
<td>$54,100</td>
<td>$81,900</td>
</tr>
<tr>
<td>Electrical and Electronic Engineering Technicians</td>
<td>$46,400</td>
<td>$69,000</td>
</tr>
<tr>
<td>Electrical Engineers</td>
<td>$68,100</td>
<td>$90,100</td>
</tr>
<tr>
<td>Electronics Engineers (except computer)</td>
<td>$65,600</td>
<td>$92,700</td>
</tr>
<tr>
<td>Environmental Engineers</td>
<td>$57,800</td>
<td>$88,100</td>
</tr>
<tr>
<td>Industrial Engineers</td>
<td>$60,100</td>
<td>$84,500</td>
</tr>
<tr>
<td>Mechanical Engineers</td>
<td>$59,000</td>
<td>$85,500</td>
</tr>
<tr>
<td>Surveyors</td>
<td>$42,200</td>
<td>$62,900</td>
</tr>
</tbody>
</table>

Source: JobsEQ®

To learn more, visit KCWorkforce.org and KCRising.com.
Education Requirements

Engineers must complete a bachelor’s degree in engineering. Engineers who work with the public must also become licensed. To become a licensed architect, you will need to complete a master’s degree in architecture, gain relevant experience through a paid internship and pass the Architect Registration Examination.

Education Programs

There are many education opportunities for students seeking careers in engineering and architecture. Below are some related degree programs offered by KC Scholars postsecondary institutions.

Baker University
- Engineering, B.S.

Johnson County Community College
- Drafting Technology, A.A.S.
- Electrical Technology, Certificate, A.A.S.

Kansas City, Kansas, Community College
- Drafting Technology, A.A.S.

Kansas State University
- Architectural Engineering, B.S., M.S.
- Architecture, M.S.
- Civil Engineering, B.S.
- Electrical Engineering, B.S.
- Engineering Management, M.S.
- Industrial Engineering, B.S.
- Mechanical Engineering, B.S.
- Mechanical Engineering Technology, B.S.

Lincoln University
- Civil Engineering, B.S.

Metropolitan Community College
- Engineering, A.A.S.
- Computer-Aided Drafting & Design, Certificate, A.A.S.

Missouri University of Science and Technology - Rolla
- Aerospace Engineering, Graduate Certificate, B.S., M.S.
- Architectural Engineering, Graduate Certificate, B.S.
- Chemical Engineering, B.S., M.S., Ph.D.
- Civil Engineering, Graduate Certificate, B.S., M.S., Ph.D.
- Construction Management, Graduate Certificate
- Construction Technology, B.S.
- Electrical Engineering, Graduate Certificate, B.S., M.S., Ph.D.
- Engineering, Graduate Certificate
- Engineering Administration, B.S., M.S., Ph.D.
- Manufacturing Engineering, Graduate Certificate, M.S., Ph.D.
- Materials Engineering, Graduate Certificate, B.S., M.S., Ph.D.
- Mechanical Engineering, Graduate Certificate, B.S., M.S., Ph.D.
- Mining Engineering, Graduate Certificate, B.S., M.S., Ph.D.
- Physics, B.S., M.S., Ph.D.

University of Central Missouri
- Applied Lean Six Sigma, Certificate
- Design & Drafting Technology, B.S.
- Engineering Technology, B.S.
- Industrial management, M.S.
- Lean Six Sigma, Graduate Certificate

University of Kansas
- Architectural Engineering, B.S., M.S.
- Architecture, M.Arch, Ph.D.
- Architectural Studies, B.A.
- Architectural Design Management, M.A.
- Civil Engineering, M.C.E, B.S., M.S., Ph.D.
- Electrical Engineering, B.S., M.S., Ph.D.
- Engineering, Ph.D.
- Engineering Physics, B.S.
- Engineering Management, M.S.
- Mechanical Engineering, M.S., Ph.D.

University of Missouri – Columbia
- Architectural Studies, B.S.H.E.S., M.A., M.S.
- Civil Engineering, B.S.
- Electrical Engineering, B.S., M.S., Ph.D.
- Industrial Engineering, B.S.
- Mechanical Engineering, B.S.

University of Missouri-Kansas City
- Civil Engineering, B.S., M.S., Ph.D.
- Construction Management, Graduate Certificate
- Electrical Engineering, B.S., M.S., Ph.D.
- Mechanical Engineering, B.S., M.S.
- Urban Planning & Design, B.A.

William Jewell College
- Civil Engineering, B.S.

Key Area Engineering & Architecture Employers

- BHC Rhodes
- Black & Veatch Corporation
- BNIM
- Burns & McDonnell
- Garmin
- Gould Evans
- HDR, Inc.
- Henderson Engineers
- HNTB Corporation
- HOK
- Hollis & Miller Architects
- Honeywell
- Kiewit Corporation
- Populous
- SFS Architecture

Source: JobsEQ 2018 & Book of Lists 2016-2017