



Exploring Career Paths and Career Clusters

Industrial & Engineering Technology

Occupations in this path are related to technologies necessary to design, develop, install, and maintain physical systems. These include engineering, manufacturing, construction, service, and related technologies.

**ARCHITECTURE & CONSTRUCTION • SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS
MANUFACTURING • TRANSPORTATION, DISTRIBUTION & LOGISTICS**

CAREER PATH INVENTORY

- Do these activities interest you?**
- Fixing things
 - Inventing or designing things
 - Working on cars, mechanical things
 - Using advanced math to solve problems
 - Using tools and machines
 - Other: _____

- Do you have these personal qualities?**
- Like using my hands
 - Practical Logical
 - Observant
 - Good at following instructions
 - Other: _____

- In your free time would you enjoy?**
- Building stage sets for a play
 - Working on cars or motorcycles
 - Touring a factory
 - Other activities: _____

- Do you enjoy or do well in these subjects?**
- Math Geometry
 - Science Technology
 - Other subjects: _____



CAREER CLUSTERS

Within the six Career Paths are 16 Career Clusters. School counselors recommend that before or during high school students select a career area that interests them to shape plans for coursework and deepen exploration. The Industrial & Engineering Technology Path has the four Career Clusters listed above.

TIP!
Visit with your school counselor and your parents to help identify career areas that might be good for you to explore further. Take classes that can support your goals.

Questions to Ask Yourself

While you are exploring your career options, nothing compares with the first-hand information you can get by talking with someone in your Career Cluster of interest.

Who could you talk to in this Career Path? _____

Gaining a variety of career-related experiences can help you identify growing interests, such as job shadowing, completing a project at school, volunteering in your community or taking courses related to your career interests.

What experience could you seek? _____

School activities related to Career Clusters in the Industrial and Engineering Technology Career Path include:

- FFA
- SkillsUSA
- DECA
- Technology Student Association
- Mathematics Student Competitions
- Discover Engineering Day
- Science Club
- Science Fairs

Can you identify professionals and opportunities in this Career Path in your community? _____

In your newspaper, look for news stories or features about people who work in this Career Path. Check the Classifieds section for job listings in this career area. Look at ads for businesses that might employ people working in this career path.

SAMPLE OCCUPATIONS & SALARY RANGES

Architect	\$45-83,000
Auto Mechanic.....	\$23-44,000
Biochemist.....	\$44-104,000
Carpenter.....	\$30-58,000
Chemist.....	\$45-78,000
Civil Engineer.....	\$54-85,000
Electronics Engineer.....	\$63-97,000
Nuclear Technician.....	\$51-79,000
Plumber.....	\$38-68,000
Welder	\$25-38,000

(Annual salaries based on 2007 BLS wage data.)

For more information about salaries and job outlook in Missouri, visit www.missourieconomy.org

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This is one of a seven-part career series brought to you by this newspaper, the Missouri Department of Elementary and Secondary Education and the Missouri Press Association.

This series will explore each of the six Career Paths – information about each Career Cluster, occupations, education and skills you need, salary ranges and more!



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