



Industrial engineering covers a range of different disciplines. Industrial engineers aim to create more efficient processes, saving time, money, materials, energy and more for public and private organizations. Industrial engineers look to reduce costs associated with production, improve quality, optimize safety, comply with regulations or improve environmental compliance. They work closely with the administration of businesses to achieve strategic organizational goals.



Possible Career Options

- Industrial Engineer
- Quality Engineer
- Manufacturing Technician
- Quality Assurance Inspector
- Industrial Mechanic
- Industrial Electrician
- Professor
- Industrial Designer
- Manufacturing Production Supervisor
- Supply Chain Analyst
- Cost Estimator
- Mechanical Designer



Possible Employers

- Engineering Firms
- Non-Profit Organizations
- Governmental Organizations
- Colleges/Universities
- Research Firms
- Consulting Firms
- Manufacturing Firms
- Supply Chain Firms



Skills Required

- Proficiency in oral and written communications
- Detail-oriented
- Ability to organize, analyze and interpret numerical data
- Creative approach to problem solving
- Critical thinking skills
- Ability to interpret data
- Ability to work independently or as part of a team
- Ability to concentrate for long periods of time



Personal Attributes

- Achievement-oriented
- Capacity for detail and order
- Capacity for analytical and logical thinking
- Patient
- Capacity for precision
- Thorough
- Skills with numbers
- Resourceful
- Have integrity



Ways to Get Experience

- Doing an internship
- Working part-time or volunteering in an engineering firm
- Volunteering as a research assistant in a university's industrial engineering department
- Joining a professional organization or related student club