

Engineering

Engineering is the application of scientific, economic, social, and practical knowledge in order to invent, design, build, maintain, and improve structures, machines, devices, systems, materials and processes. The discipline of engineering is extremely broad, and encompasses a range of more specialized fields of engineering, each with a more specific emphasis on particular areas of applied science, technology and types of application.

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STUDENT PROFILE

Engineering students have a curious mind, like solving problems through ideas and designs, and thrive on organizing to get things done efficiently. They have a strong analytical aptitude, show attention to detail and have excellent oral and written communication skills. Engineers must be able translate complex technical lingo as well as communicate with clients and others during the course of a project. A great engineer understands that they are part of a larger team working together to make one project come together successfully.

CAREER OPPORTUNITIES

Most engineers are specialists in a certain field or even in a very specific subfield. Broad specialties include:

- Aerospace
- Agriculture
- Architectural
- Biomedical
- Chemical
- Civil
- Computer
- Electrical
- Environmental
- Industrial
- Marine
- Mechanical
- Mining and geological
- Nuclear
- Petroleum