

Engineering – A great career choice

Before pursuing an engineering career, you should answer:

- **What is engineering?**
- **What is an engineer?**
- **What are the characteristics of a good engineer?**
- **What are the functions of engineering?**
- **What are the engineering disciplines?**
- **Where does the engineer fit into the technical spectrum?**
- **How are engineers educated?**
- **What are the advantages and disadvantages of graduate degrees?**

What is Engineering?

Our textbook gives several definitions, including:

Engineering has been defined in many ways. It is often referred to as the “application of science” because engineers take abstract ideas and build tangible products from them. Another definition is “design under constraint,” because to “engineer” a product means to construct it in such a way that it will do exactly what you want it to, without any unexpected consequences.

- National Academy of Engineering

Engineering is the application of science and mathematics by which the properties of matter and the sources of energy in nature are made useful to people.

- Merriam-Webster online dictionary

Why Engineering?

Why do students pursue degrees in Engineering? Discuss some possible reasons in class:

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