Telecommunication engineering is a branch of engineering relating to the exchange of information that takes place across channels via either wired or wireless means. This field combines parts of electrical engineering, computer engineering, and systems engineering to design and advance telecommunications.

**Responsibilities of a Telecommunication Engineer**

- **Design**
  - Engineers must design electronic components, software, products, or systems to be used for commercial, industrial, medical, military, or scientific applications.

- **Develop**
  - Engineers have to maintain and test procedures for electronic components and equipment.

- **Test**
  - Engineers evaluate systems and then recommend design modifications or repair for equipment.

- **Debug**
  - Engineers inspect electronic equipment, instruments and systems to ensure they are safe to use.

**Telecommunication Companies**
- AT&T
- Verizon
- NTT
- Telefonica
- Vodafone

**Significance of Telecommunications**

Telecommunications is integral to effective and reliable communications across businesses, governments, communities, and families. Telecommunication companies have built the infrastructure that enables the exchange of voice, words, video, and audio anywhere on Earth.

**Average Telecommunications Engineer Salary in the United States:**

$86,527

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[Links to related websites for further reading]

https://www.fieldengineer.com/skills/what-is-a-telecom-engineer
http://www.allaccess telecom.com/the-importance-benefits-of-telecommunication/
https://www.rcrwireless.com/20160720/featured/what-is-telecommunications-engineering-tag31-tag99

**Relevant Courses**

- EEL 4512 - Communication Systems
- EEL 4519 - Telecommunication Engineering
- EEL 4461 - Intro to Antennas