Program Description

**Telecommunications Engineering**, or telecom engineering, is an engineering discipline that combines electrical engineering with computer science to enhance telecommunication systems. Work ranges from basic circuit design to strategic mass developments, and in many instances also overlaps with broadcast engineering. A telecommunication engineer is responsible for designing and overseeing the installation of telecommunications equipment and facilities, such as complex electronic switching systems, copper wire telephone facilities, and fiber optics.

Sample Occupations
- Telecommunications Engineer
- Network Engineer
- Wireless Engineer
- Infrastructure Engineer
- Telecommunication Project Manager

Sample Work Settings
- Wired Telecommunications Carriers
- Federal Executive Branch
- Semiconductor and Other Electronic Component Manufacturing
- Software Publishers
- Audio and Video Equipment Manufacturing
- Communications Equipment Manufacturing
- Navigational, Measuring, Electromedical, and Control Instruments Manufacturing
- Aerospace Product and Parts Manufacturing
- Specialized Design Services

Job Search & Career Planning Resources

Use Career Center online resources (GWork, GoingGlobal, Vault)

Keywords: Telecommunications, Audio & Video, Communications, Wireless Networks

Top Employer in this field:
Black & Veatch, Bechtel, Parsons, Jacobs, Syska Hennessy Group, Exp Us Services Inc., KCI Technologies Inc., GPD Group, Morrison Hershfield, Corgan, Vanderwell Engineers, Gensler, CH2M Hill, Tectonic Engineering & Surveying

Job Search Sites  Engineering Jobs: [www.engineerjobs.com](http://www.engineerjobs.com)  Engineer.net: www.engineer.net

Professional Organizations

Tips: Join professional organizations to network and find out more about your field.

- The Society of Cable Telecommunications Engineers [www.scte.org](http://www.scte.org)
- IEEE Communications Society [www.comsoc.org](http://www.comsoc.org)
- Association of Communication Engineers [www.ace-engineers.org](http://www.ace-engineers.org)