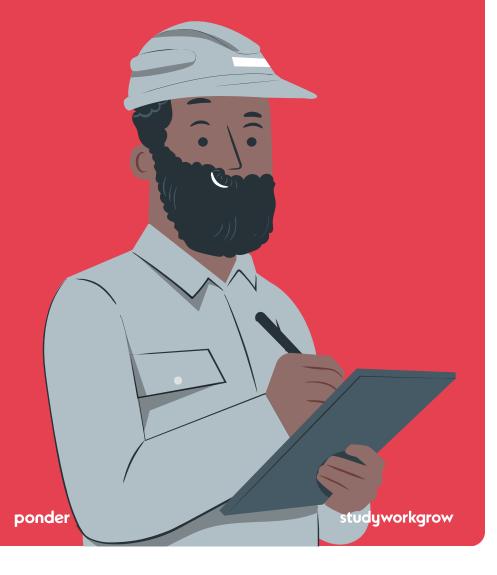
Telecommunications Pathways

DEVELOP • MAINTAIN • IMPROVE



Telecommunications Pathways

Develop, maintain, and improve communication networks and systems

Telecommunications is a dynamic field that focuses on the transmission of information through various channels. It includes a wide range of technologies and services that enable us to communicate and connect with others.

This pathway might be right for you if you enjoy exploring the latest advancements in technology and communication systems.

Growth



Moderate

Field size



Small

Interest area



Technology

Skills needed

- Digital literacy
- Critical thinking
- Innovation
- Making decisions
- Adaptability

Common tasks

- Inspect, test & maintain systems
- Install new equipment
- Troubleshoot technical issues
- Monitor network performance
- Design new systems
- Plan budgets & timelines
- Lead teams of workers
- Monitor regulatory compliance
- Stay up to date with changes



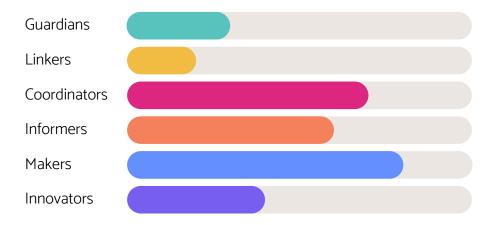
About the pathway

Work environment and conditions

This pathway includes roles in all kinds of environments, from desk work to field work. Some office jobs may allow for remote working, but hands-on roles will require you to be on-site.

Most workers in this field work either full-time or part-time, with some casual roles and contract work available too. Self-employment is relatively uncommon.

The Career Clusters in telecommunications



Things you can do now

Places for work experience

- Telecommunications companies
- Tech start-ups specialising in telecommunications solutions
- Electrical businesses
- Data centres
- Mobile phone providers

Activities

- Study basic networking to understand data transmission
- Research telecommunications standards like 5G
- Take a virtual tour of a telecommunications centre

Suggested subjects

- English
- Mathematics
- Technology
- Engineering
- Physics



Roles to explore

Entry level

Cable Technician

Install and repair cable services (like TV, internet, and phone) in homes and businesses.

Telecommunications Linesworker

Construct and maintain the physical network of telephone and internet lines.

Telecommunications Technician

Install, maintain, and repair telecommunications equipment.

Mid-level

Network Designer

Plan and create the layout of telecommunications networks.

Systems Engineer

Manage the overall telecommunications infrastructure and ensure different parts work together.

Telecommunications Engineer

Design and improve specific telecommunications systems (like mobile networks and internet infrastructure).

Senior

Technical Director

Lead teams of engineers and technicians, making sure everyone works together effectively.

Chief Technology Officer

Make decisions about what technology the company should use and invest in.

Project Manager

Coordinate teams of engineers, technicians, and other professionals to get big projects done on time.

Similar pathways

Utilities | Electrical Engineering | Network Administration | Robotics



PATHWAY SPOTLIGHT

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