

Railway Maintenance Engineering Technician - Telecoms

Railway maintenance engineering technicians (telecoms) install and maintain the communication network which assists with and controls the safe and efficient passage of trains.

The Work

You could check, maintain and repair all aspects of Network Rail's complex computer and telephone network, such as:

- the cab secure radio system, which currently allows the signaller to communicate directly with individual train drivers and give them instructions
- the copper and fibre optic cables that form the telecoms infrastructure and enable things such as telephone exchanges to work
- the customer information systems, such as boards that display train information, CCTV and public address systems
- the telephone systems, which provide communication between level crossings and the signal boxes that control them
- the new railway communication system, which combines a fixed telecoms network (FTN) and a new digital network.

Pay

Employment is with Network Rail. The first year salary for Network Rail Level 3 Engineering Apprentices as of 2025 is £19,838. Your salary will increase yearly.

Once you have completed the apprenticeship you can earn up to around £35,000 a year and more with further experience.

Conditions

- You will work both indoors and outdoors as well as underground.
- If you have to work beside the track you'll work in a team with a lookout to warn when a train is approaching.
- You travel to different sites wherever a fault occurs or a repair is needed.
- You work shifts, including evenings, nights, public holidays and weekends.
- You are sometimes on call and may have to work overtime.
- You will have to wear protective clothing such as high visibility jacket, hard hat and safety boots.

Getting In

- Network Rail offers a three-year Level 3 Engineering Apprenticeship Scheme which trains Maintenance Engineering Technicians in areas such as: Signalling, Track, Distribution and Plant, Telecoms or Overhead Line.
- Entry requirements: 4 subjects at National 5 including English, Maths and a science or engineering subject.

- Check the [Network Rail website](#) for information on when applications open.
- To qualify you need to be 18 years of age or older by the time you start your training.
- If your online application is successful, you will then complete an online assessment, consisting of some tests and a video interview. If you pass these then you will attend the assessment centre and complete activities.
- You need a good level of physical fitness, and have to pass a medical examination, which includes sight and hearing tests.
- You will undergo regular drug and alcohol tests to make sure you are not under any influence during working hours – Network Rail have a zero tolerance policy.

Jobs are with Network Rail, which is responsible for maintaining around 3,000 miles of track and related infrastructure in Scotland.

What Does It Take

You need to have:

- patience
- an eye for detail to notice small defects
- good manual skills
- good concentration
- awareness of health and safety procedures
- an understanding of electrical principles and networks.

You need to be able to:

- meet deadlines
- deal with emergencies quickly and calmly
- work in isolation as well as in a team
- work quickly and accurately.

Training

- Training is on the job combined with off the job training.
- All apprentice technicians must attend the Westwood training centre in the midlands region of England, for their first 23 weeks of training. Accommodation, meals, work clothing and safety equipment is provided. The remainder of training is based at a depot close to your home address.
- On completion of the apprenticeship you'll have two Level 3 Diplomas in Railway Engineering Technician Knowledge & Competence, as well as leadership and management skills.

Getting On

- With experience and suitable qualifications, you may be able to gain promotion to a senior technician post.
- There are also opportunities to move into technical support, new works testing or design.
- Once you have qualified, you may be able to do further study and gain more advanced qualifications in

engineering.

- With these advanced qualifications, you may be able to register as an Engineering Technician (EngTech) or as a professional engineer (IEng or CEng).
- There can be opportunities for further promotion to supervisory or management positions.
- There also could be opportunities to move into related technical posts within the rail industry.

More Information

Network Rail is currently working towards a complete digital railway communications system based on the type of wireless networks that mobile phones use as well as fixed networks that use fibre and copper cabling.

Contacts

Network Rail

Tel: 020 7557 8000

Website: www.networkrail.co.uk

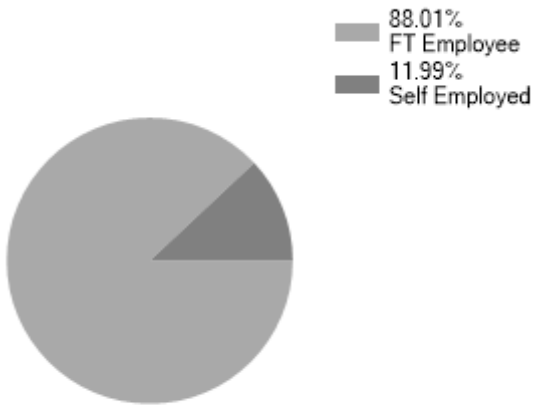
Website (2): www.networkrail.co.uk/careers

X: @networkrail

Facebook: www.facebook.com/networkrail

Statistics

Employment Status UK %



Past Unemployment - Scotland

No Claimant statistics available for Scotland.

LMI data powered by [LMI for All](#)

Predicted Employment Statistics : Not available this career.