

Remote Infrastructure Technician



This position provides technical/scientific equipment support for GNS Science's geohazard monitoring and geodetic surveillance systems, in particular by carrying out station installations and upgrades, network repairs and maintenance, and contributing to data communications solutions. The position will also provide technical assistance and support to science projects as requested.

Reports to:	Lead Technician
Department:	Data Science and Geohazards Monitoring
Group:	Science
Tenure:	Permanent
Location:	Wairakei
Direct reports:	Nil
Budget:	Nil
Career Path:	Specialist
Job Family:	Research, Lab and Field Technology
Career Step:	5
Date:	April 2022

Position priorities and responsibilities

- Regular long (1 week +) and short (1 day +) term travel to perform maintenance, upgrades and repairs at geohazard monitoring stations and arrays throughout New Zealand, as required, including leadership of field teams.
- Build and install new geohazard monitoring stations around New Zealand.
- Test, maintain and repair GNS Science equipment and components, in the workshop and in the field.
- Monitor the performance of equipment and monitoring stations, initiating action as required.
- Contribute to the documentation of the current electrical, mechanical, hardware and software systems and to the accurate recording of all maintenance, troubleshooting and repairs.
- Liaise with scientific staff regarding equipment requirements and operations.
- Provide appropriate technical support and advice within agreed levels to all areas of GNS Science, including participation in special projects, aftershock deployments, etc.
- Seek out new relevant technologies in geophysical data collection and communications.
- Assist with selection of new geophysical monitoring station locations (including fieldwork) when requested.
- Undertake projects as directed by your manager as and when required.

Responsibilities of all staff

- Comply with all GNS Science policies and procedures.
- Contribute to making GNS Science a healthy and safe place to work by complying with the responsibilities and accountabilities outlined in the Health and Safety Management System Framework.

The responsibilities of this position will change over time to respond to changing needs. The incumbent will need the flexibility to adapt and develop as the company and its environment evolves.

Key working relationships

- EQC
- LINZ
- DoC
- Landowners
- Suppliers
- Scientific research community (GNS and external)
- Public

Person specification

Skills, knowledge and attributes

- Mechanical, electrical and computing skills, including basic familiarity with Unix based operating systems
- Knowledge of TCP/IP networking, cellular communications and other remote communications/telemetry technologies
- The ability to rapidly acquire knowledge of new equipment and systems and to interpret state of health data to identify the potential causes of any problems
- Effective communication and documentation skills

Experience

Essential:

- Working in teams with people with different skills and backgrounds

Desirable:

- Experience in the deployment, repair and maintenance of technical equipment, and data collection in remote field and off-road environments

Qualifications

Essential:

- A tertiary qualification or experience in digital communications, electronics, engineering, instrumentation, or surveying related to science or science support

Desirable:

- A background or qualification in earth science
- Industry recognised networking qualification (e.g., CCNA, Network+)

Other requirements

Essential:

- A proactive and motivated approach
- Commitment to achieving a high standard of work, with quality as a prime consideration
- Innovation, integrity and the ability to work effectively as part of a team
- Flexibility and the ability to participate in fieldwork at short notice, including multiple-day trips
- A methodical approach to problem solving and testing
- A good level of physical fitness
- Confidence and demonstrated self-reliance when working in remote outdoor locations, with ability to work with minimum supervision
- A full driver's licence

Desirable:

- 4WD/off road driving experience
- Current first aid certificate

Performance Dimensions

At a high level, GNS Science recognises six **Performance Dimensions**: three relate to technical capability, one relates to leadership (if applicable) and two relate to the way we work. Below are the general expectations that are the minimum standards expected of all staff. There are also expectations that specifically relate to the career step associated with the role; you can find these on GNS Online.

Technical capabilities

Scope, complexity and innovation

- Enduring commitment to maintaining and developing skills and knowledge in area of expertise.
- Both the ability and desire to apply appropriate rigour, principles and practices to deliver quality work in a cost-effective manner.
- Acts in a manner that conveys high personal and professional standards.
- Open to coaching and feedback – incorporates suggestions to find better ways of doing things (to improve own and GNS Science performance).

Contribution to GNS Science / profession

- Establishes and maintains effective and collaborative working relationships – with colleagues and external individuals and groups.
- Both the ability and commitment to work in a culturally responsive and inclusive manner; respecting and valuing the diverse perspectives of individuals and groups.
- Takes an interest in early career colleagues, graduates and students – provides coaching and/or mentoring as appropriate. Supports initiatives to promote science careers.
- Prevents harm to self and others by carrying out duties safely and responsibly.

Delivery of work

- The ability and commitment to deliver pieces of work and projects on time to required quality, cost and benefit parameters.
- The application of appropriate project management rigour, principles and practices to delivering quality projects in a cost-effective manner

Behavioural expectations

Manaakitanga – we do the right thing

Champions a positive working culture. Works and interacts with colleagues, external partners, stakeholders and customers in a way that is consistent with our values:

- We are **CONNECTED** in our purpose; with each other, with partners and stakeholders and with our communities.
- We are **INSPIRED** by our work to explore, challenge, innovate and aim higher.
- We are **EMPOWERED** to be our best – valued for our differences, encouraged to contribute and enabled to grow and develop.

Bicultural commitment

- As a Crown Research Institute, GNS Science is committed to partnering with iwi/hapū and Māori communities and agencies to achieve their science aspirations.
- We do this in a way that is culturally appropriate (**tikanga**) and honours Māori and non-Māori worldviews (**te ao**).

These expectations are intended to support and guide the development of individual staff.