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.

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 (and wider), as required.
- Build and install new geohazard monitoring stations around New Zealand (and wider as required).
- 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.

Reports to: Remote Infrastructure Management Team Leader
Department: Data Science and Geohazards Monitoring
Group: Science
Tenure: Permanent
Location: Avalon
Direct reports: Nil
Budget: Nil
Date: September 2020
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**
- Knowledge of TCP/IP networking, radio, Wi-Fi and other remote communications/telemetry technologies
- Mechanical, electrical and computing skills, including basic familiarity with Unix based operating systems
- 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 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, 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

**Desirable:**
- A full driver’s licence with 4WD/off road driving experience
- Current first aid certificate

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**Competencies**

The following competencies are expected of all staff:

- **Results Orientation:** The ability and commitment to achieve effective results, and work towards or exceed agreed goals.

- **Business Focus:** The ability and desire to apply appropriate principles and practices to maximise revenue, minimise cost, while meeting our obligations.

- **Relationship Management:** The ability and commitment to develop and maintain effective relationships with groups and individuals.

- **Communication:** The ability to express thoughts and ideas clearly and consistently (orally and in writing).

- **Innovation and Initiative:** The ability and commitment to seek and use better ways of doing things (to improve personal and GNS Science performance).

- **Teamwork:** The ability to establish and maintain effective and cooperative relationships.

- **Professional Integrity:** Act in a manner that conveys high personal and professional standards.

- **Technical Expertise:** The ability to maintain and develop technical expertise.

- **Leadership and Management Skills:** The ability to inspire others to achieve desired results and to develop and enable others to realise their full potential.