

Geologist



The Geologist undertakes mapping, petrological research and related technology transfer work into the origin and development of New Zealand's continental crust.

Reports to:	Petrology and Geochemistry Team Leader
Department:	Earth Structure and Processes
Group:	Science
Tenure:	Permanent
Location:	Dunedin
Direct reports:	Nil
Budget:	Nil
Career Path:	Research
Job Family:	Research
Career Step:	To be confirmed
Date:	February 2024

Position priorities and responsibilities

- Undertake mapping, sampling, and provide geological and geochemical interpretation over New Zealand geological terranes.
- Assist other GNS Science researchers with the use of petrological and geochemical techniques in igneous, volcanic, geothermal, and hydrology research.
- Prepare manuscripts for publication in international scientific journals and make public, client and scientific conference presentations.
- Prepare research and consultancy proposals.
- Undertake other duties as agreed by the Department Manager.

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

Internal:

- Petrology & Geochemistry team, Earth Resources and Materials Department
- Hydrothermal Systems & Minerals team, Earth Resources and Materials Department
- Geological Mapping and Stratigraphy, Surface Geosciences Department
- Other scientists from Earth Resources and Materials Department

External:

- Scientists from universities and geological surveys
- Geologists from exploration and mining companies

Person specification

Skills, knowledge and attributes

- Has a proven ability to do fieldwork and the use of petrography and geochemistry in a range of geological settings
- Has undertaken mapping and research on the composition of igneous rocks
- Some experience in economic geology, particularly critical minerals and precious metals, would be an advantage
- Has some knowledge of New Zealand mineral deposits
- Has a PhD in geology/geochemistry, or equivalent experience
- Knowledge of GIS and particular ArcGIS software applied to the spatial distribution of rock/mineral analytical data would be an advantage
- Has demonstrated writing skills and can contribute to scientific publications and reports
- When appropriate, a willingness to work with iwi/Maori groups and organisations to build relationships to facilitate Maori development

Experience

Essential:

- Has previous experience doing fieldwork and geological interpretation, and a demonstrated ability to publish research

Desirable:

- Has previous experience in mapping volcanic and intrusive sequences.
- Has some experience with minerals system science.

Qualifications

Essential:

- PhD or equivalent qualification in earth sciences, preferably specialising in igneous geology.

Desirable:

Other requirements

Essential:

- Full Driver licence.
- Healthy and fit to do field work.

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.