Hydrogeologist

This position is responsible for conducting groundwater-related research and consultancy, with a focus on numerical modelling of hydrologic systems, and for increasing revenue for GNS Science from these areas. In particular, this position is responsible for helping the Groundwater Modelling Team Leader to develop GNS groundwater team capacity related to numerical modelling of water-related systems (e.g. surface water and groundwater flow systems), and further enhance its skill base, its research capability and its commercial consultancy.

Reports to: Hydrogeology and Geophysics Team Leader
Department: Surface Geosciences
Group: Science
Tenure: Permanent
Location: Wairakei
Direct reports: Nil
Budget: Nil
Date: August 2020

Position priorities and responsibilities

Scientific Research

- Developing research plans in consultation with senior staff
- Assisting with planning, execution and reporting of established projects
- May be involved in supervising technicians or other staff.

Commercial

- Undertake commercial projects under the guidance of senior staff
- Commercial projects work will comprise at least 0.5 FTE

Communication

- Communicating scientific research through authorship or co-authorship of scientific publications papers or reports
- Making presentations at conferences and seminars
- May represent GNS Science at conferences

Projects

- Undertake projects for 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**

**Internal:**
- Work with hydrogeologists, chemists, isotope scientists, and modellers in the Department of Surface Geosciences on collaborative projects such as: groundwater resource assessments, aquifer mapping and characterisation, security of drinking water supply.

**External:**
- This position is required to interact closely with environmental and water resources managers; senior and principal scientists, senior policy planners and senior project managers from Regional Councils, Ministries, Government Departments, CRIs and Universities.

**Person specification**

**Skills, knowledge and attributes**
- Ability to apply geology and hydrogeologic concepts to groundwater research and commercial consultancy problems, in particular in relation to water quantity and water budgets.
- Experience with local, catchment and regional flow system characterisation for resource assessments, groundwater-surface water interactions, aquifer characterisation, and/or water quality assessment.
- Ability to apply geology and hydrogeologic concepts to groundwater research and commercial consultancy problems, in particular in relation to water quality.
- GIS and coding skills, with aptitude and committed willingness to expand and grow these skills.
- Quality scientific publication record and high level of commitment and motivation to performing quality scientific work would be an advantage.

**Experience**

**Essential:**
- Experience in groundwater modelling

**Desirable:**
- Knowledge of the NZ research and technology transfer business environment in which the Department operates
- Experience in personnel and project management
- Experience in marketing and business development with respect to hydrogeology, or interest in and potential to take on such responsibilities

**Qualifications**

**Essential:**
- MSc in hydrogeology or related topic

**Desirable:**
- PhD in hydrogeology or related topic
Other requirements

Essential:
- Good computer skills.
- Excellent communication skills, with the ability to make oral and written scientific reports in English.
- A valid driver’s licence or the ability to obtain a valid New Zealand driver’s licence within a reasonably short time

Desirable:
- First aid certificate

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.