The GeoNet Lead Developer will design, develop and maintain software systems to deliver information from GeoNet and provide technical leadership and advice to the Systems Development team.

Position priorities and responsibilities

Technical Leadership and Fullstack Development

- Provide technical leadership, direction and advice to the team to lift the technical knowledge, competency and skill levels
- Lead the development, implementation and review of procedures, systems and tools for the team’s efficient operation in collaboration with IS, with particular attention to architecture, security, privacy, development processes etc
- Key liaison with Platform Team to automate the staging and successful deployment of code to production
- Build effective working relationships with the various GeoNet and IS teams
- Design, create and maintain packages and libraries to support the effective and sustainable development of software
- Continuous improvement of tools and processes to support SDLC, eg. CI/CD in consultation with the team
- For new developments within GeoNet work as a member of an agile cross functional team
- Develop and maintain web applications, mobile applications, data access services, and supporting services
- Peer review code and documentation written by other team members and related teams
- Diagnose and resolve issues with GeoNet services and systems as required
- Assist with any stakeholder meetings relating to GeoNet systems

Other

- Be an active member of the GeoNet Applications Support Duty Team
- Deputise for the GeoNet Systems Development Manager as required
- Undertake projects for the GeoNet Systems Development 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:
- Platform team, Network Operations and Development team, Data management team, Volcano team, IS teams, research scientists

External:
- Users of GeoNet eg. CDEM sector, the public and scientists

Person specification

Skills, knowledge and attributes

- Proven competence with:
  - Programming in Go, Java or Swift, with a preference for Go
  - CI/CD, Travis preferred
  - Amazon Web Services and an appropriate cloud automation tool. Terraform preferred.
  - HTML, CSS, JS and experience developing responsive web sites
  - Git/Github and tools for code review
  - Championing DevOps practices
- Ideally would also have experience with
  - Docker
  - Relational databases. PostgreSQL an advantage with PostGis a bonus
  - Mobile development
- Proven experience working with Agile development methods (Scrum preferred) in cross functional teams. Knowledge of DevOps an advantage
- Knowledge of web service architectures and technologies
- A willingness to learn and stay up to date with new technology. A self-starter who can see a project from idea to production
- Clear communication skills
- Ability to build and maintain effective working relationships
- Excellent problem-solving skills

Experience

Essential:
- Secure Web Coding
Demonstrated ability to provide technical leadership across a diverse range of projects/products in an agile environment over the last 3-5 years

**Desirable:**
- Understanding of GeoNet and its operational goals, stakeholders and obligations

**Qualifications**

**Essential:**
- Relevant IT tertiary qualification or demonstrable relevant experience

**Desirable:**
- Agile Certification
- AWS Certification, or working towards it

**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.