
POSITION DESCRIPTION

Job Title:	Senior Systems Engineer
Team:	Engineering
Reports To:	Project Manager
Manager Once Removed:	General Manager - Engineering
Supervises Directly:	System Design Engineer
Prepared / Updated By:	Project Manager
Revision Date:	February, 2006
Approved By:	Chief Executive Officer
Approval Date:	March 2006

Company Dynamics

GroundProbe is an exciting and dynamic company supplying unique radar based measurement technologies to the international mining and civil infrastructure industries.

Winner of multiple awards and achievements, GroundProbe was ranked the second most successful start-up company by Business Review Weekly (2006), Second fastest growing company in the technology sector for Deloitte Technology Fast 50 (2005), 12th fastest growing company in Australasia in the Deloitte Technology Fast 500 Australasia, winner of the Australian Emerging Exporter Award (2005), winner of the Premier of Queensland Exporting Award – Emerging Exporter (2005), winner of Telstra Small Business – AMP Business Award (2005), winner of Premier of Queensland Smart State Award – Rising Star (2004) and winner of Queensland Engineering Excellence Award for Small Business (2003).

Slope Stability Radar (SSR) technology is making open cut mining safer and more efficient. GroundProbe also provides Ground Penetrating Radar (GPR) services to the civil infrastructure and mining industries. Ground Penetrating Radar is used to provide high resolution images of the subsurface. GroundProbe is currently expanding this technology to provide 3D subsurface imaging.

Strong demand for these technologies is generating rapid growth in the company. To continue the growth of GroundProbe, the role of Senior Systems Engineer has been created.

Position Summary

Based at GroundProbe's head office in Brisbane, the Senior Systems Engineer is responsible for the systems development of a number of GroundProbe technologies including components of the SSR and GPR product families.

This position demonstrates GroundProbe's commitment to strong engineering research and development of its new technologies, along with the support and improvement of its current technologies.

Responsibilities

- Work safely, and with regard to the safety of others, including identification and eliminations of hazards in the workplace. Build safety into designs and methods of working;
- Take a leadership role in the development of systems and subsystems for GroundProbe's next generation technologies;
- Develop and specify work packages for suppliers and consultants and negotiate supplier and consultancy agreements;
- Control the performance of suppliers and consultants;
- Prepare systems engineering management plans including design, development, integration and testing;
- Prepare budget estimates for non-recurring and recurring engineering effort including parts and materials, special equipment, testing and manufacture;
- Ensure safety, manufacture, maintenance and operational needs are built into designs. Assess reliability and EMC requirements and develop designs to address;
- Review and approve designs including requirement & design specifications, engineering drawings and design reports;
- Define and implement systems engineering processes;
- Supervise systems and design engineers and act as the technical lead for designated projects; and
- Review and approve designs, specifications, manufacturing data and drawings including from suppliers.

Duties

- Work with a diverse engineering team to specify, design and analyse systems and subsystems including microwave, high speed digital electronics circuits and supporting mechanical and power subsystems;
- Integrate market and business needs into technology advancements and improvements;
- Participate in quality assurance processes for systems engineering, testing and verification of systems and subsystems prior to delivery;
- Create and document procedures and processes within area of responsibility;

- Provide a summary of project progress for designated projects to the relevant Project Leader on a weekly basis;
- Contribute to customer relations and act as GroundProbe's representative when working at customer sites; and
- Assist with marketing and development of a positive image of GroundProbe and its employees.

Special Circumstances

- This position is based in Brisbane, Australia, but may require travel to remote locations to test new & innovative technologies at various stages of development.

Requirements for the Position

- Tertiary qualifications in Electrical/Electronics, Systems, Communications or other relevant Engineering disciplines;
- Minimum 10 years experience in Systems Engineering;
- Effective time management and organisational skills;
- Excellent interpersonal, communication, and documentation skills;
- Customer focussed;
- Highly motivated individual, able to set priorities and meet deadlines, and be a strong team player;
- Knowledge of civil/defence systems engineering standards and processes such as ISO15288, EIA632, IEEE1220.

Working Environment

- Employee safety and well being is paramount to the company;
- GroundProbe embraces equality and maintains high ethical and moral values. The company's policies, procedures and culture embody these values;
- GroundProbe is a team based organisation. Within the company, innovative thinking and team wide participation is encouraged and nurtured;
- GroundProbe negotiates employment contracts on an individual basis, with periodic review;
- GroundProbe is a rapidly growing member of an international community and employees may experience work volumes, locations and conditions of a dynamic nature; and
- GroundProbe's Technologies are developed in-house and are world leading. Absolute confidentiality is a commitment practised by each of its staff.