



POSITION DESCRIPTION

Electrical Engineer

Position Status	Full Time
Reporting Manager	Technical Manager
Function	Engineering
Location	Multicom's St Elmo Project Site – Julia Creek, Queensland
Direct Reports	Nil

Job Context

Engdell Pty Ltd is an engineering company with an alliance to provide engineering services to Multicom Resources. Multicom Resources is on a mission to bring high purity critical minerals to the world and become a reliable supplier for global technology manufacturers.

Multicom is currently progressing the permitting, approval, and development of its Saint Elmo Project. The Saint Elmo Project is 100% owned by Multicom and is situated 25 km east of Julia Creek in Queensland's Northwest Minerals Province.

Engdell's multidisciplinary engineers and project professionals will be based in on site with support from the Brisbane office to deliver projects from study through to execution and commissioning and then support ongoing operations.

Job Accountabilities

The Electrical Engineer is responsible for the electrical engineering development including engineering design, construction support, commissioning & commissioning planning, risk/opportunity registers, and tender packages.

The Saint Elmo Project includes but is not limited to equipment in the following areas:

- Power Generation systems
- Switchrooms and a Control Room
- Instrumentation – flow, pressure, pH, conductivity, density, etc.
- Local control panels and switchgear
- Water, air or gas supply systems on site and in any Multicom owned camp or town located facilities,
- Materials handling systems
- Beneficiation process plant systems
- Hydrometallurgical and Pyrometallurgical processing plant systems,
- Associated heating, cooling, emission controls and building services systems,
- Other mine-related infrastructure.

The Electrical Engineer will be required to work as part of a multi-disciplinary Engineering Design, Construction, Commissioning and Operations Support Team (electrical, structural, mechanical, process and mining) to deliver best for project and operational outcomes. Communicating effectively with internal stakeholders and being committed to a team approach is essential, as is understanding project priorities and delivering results to the team under self-driven situations.

Examples of tasks the Electrical Engineer will also be responsible for include, but are not limited to, the following:

- Testing, commissioning and maintenance on electrical equipment
- Developing project documentation, including technical reports, drawings, schematics, and equipment manuals
- Providing technical support and supervision during installation, testing, commissioning, and maintenance of electrical systems
- Troubleshooting and resolving complex problems to efficiently minimise downtime
- Ensuring compliance with relevant safety regulations and quality standards
- PLC programming, preferably with Rockwell Allen-Bradley systems and Siemens PLCs
- Understanding of networking and maintain network switches, maintaining and troubleshooting servers and virtual machines



- Programming or updating the Rockwell PlantPax DCS system and VSDs
- Electrical design and drafting, preferably in Bentley and/or AutoCAD
- Electrical engineering troubleshooting and design of power systems, instrumentation, and control systems
- General electrical design, drafting, and documentation
- Construction management tasks and management of construction quality compliance,
- Assisting in the engagement and management of subcontractors,
- Assisting with the development of schedules and forecasts, and progress reporting
- Oversight of daily record keeping, data collection and analysis, and
- Development of cost estimates for variations
- Electrical and general construction works (with appropriate support and training) to continue to maintain knowledge of all aspects of project delivery.
- Preparation of technical packages for procurement and construction contracts tender and contract award documentation

Occasionally, it is expected that the Electrical Engineer will provide assistance to various team members and disciplines as project or operational requirements dictate.

Key Relationships

Internal

- Liaises with the Engineering Team members onsite and offsite
- Day to day tasks assigned from the onsite leadership team
- Built and maintain mutually beneficial relationships with whole site team

External

- Suppliers and providers

Qualifications & Experience

- Bachelor of Engineering (Electrical)
- 3-5 years' experience in a similar role, preferably in engineering, procurement and construction projects, mining or an industrial environment
- Control system and network experience, preferably Rockwell Automation systems
- Exposure to mining infrastructure
- Demonstrated experience in relevant computer systems and high computer literacy
- Drivers Licence
- Ability to effectively communicate with people from diverse backgrounds
- Strong problem-solving abilities
- Attention to detail
- A drive to perform at a high level