



JOB DESCRIPTION

Electrical Projects Engineer

The Electrical Projects Engineer is responsible to the Head of Engineering or, as agreed for each project, for all electrical related project delivery functions associated with the development of a thermal energy storage unit (TESS). The role requires experience with the design, construction, integration, maintenance and repair of complex control systems, PLC automation, instrumentation, SCADA, HMI and VSDs. The position will involve projects across a wide range of industries, providing mental challenge and many opportunities to both contribute and build industry knowledge.

Key Responsibilities:

- Health & Safety
 - Comply with the 1414 Degrees Work Health and Safety Policy and the Safety Management Plan to contribute to the continuous improvement of workplace safety
 - Actively promote safety awareness and environmental responsibility amongst the company and contract personnel
 - Proactively participate in and lead Risk Assessments to actively manage the risks of projects
 - Actively participate and lead safety and environmental initiatives
 - Conduct investigations into site safety and environmental incidents
 - Educate and mentor employees on safety
 - Participate in HAZOP/risk assessment activities
- Project
 - Develop design concepts and engineering scopes of work
 - Design of electrical control systems, including cable schedules, transformer sizing, MCC design input, etc
 - Liaising with technology suppliers and preparing detailed equipment lists
 - PLC, HMI and SCADA programming across a variety of OEMs
 - Commissioning, supervision and maintenance of systems
 - Performance of a variety of related technical tasks to facilitate proper commissioning and customer satisfaction
 - Provision of technical support to internal and external trades
 - Liaison with Project Managers, stakeholders, customers, consultants, contractors, and suppliers to achieve project deliverables
 - Working effectively with other members of the Engineering team, and the broader 1414 Degrees team
 - Educate and mentor employees on electrical controls
 - Liaise with regulatory authorities as appropriate
 - Maintain close contact with site-based project activities including periodic site visits and temporary site secondments
- Commercial Awareness
 - Monitor project costs to ensure approved budgets are not exceeded, and report cost trends in a timely manner
 - Prepare preliminary and definitive capital cost estimates
 - Prepare project estimates, budget, schedules and execution plans as required
- Reporting
 - Prepare engineering study reports
 - Prepare and submit reports to key stakeholders on the progress and status of the project

- Quality
 - Ensure technical QA on assigned projects, by monitoring, checking and reporting on the execution and implementation of project design/systems integration
- Project Completion
 - Maintain accurate records and files of all projects, including certificates of compliance
- Flexibility
 - Ability to prioritise work to meet changing business needs
 - Able to undertake multiple tasks and projects simultaneously and manage competing priorities efficiently and effectively
 - Willing and able to work additional hours required to get the job done in a timely manner
 - Willing and able to undertake local, interstate or overseas travel as required, even at short notice

Qualifications, Skills & Experience

Required:

- Experience in design, selection, installation and inspection of power conversion systems or relevant electrical power technologies for the power generation and distribution industry
- Proficient with local authority and Australian Electrical standards
- Wide knowledge of relevant regulations and standards (e.g. electrical code, international design standards)
- Demonstrated experience in full project life cycle from pre-feasibility to commissioning
- Practical experience with PLCs, HMIs, VSDs and SCADA systems from a variety of OEMs; knowledge of PLC/HMI programming will be highly regarded
- Proven ability to analyse and resolve technical matters
- Driven individual with a can-do attitude able to meet tight deadlines
- Highly flexible individual who can adapt to change
- Proven team player, with ability to build and maintain effective internal and external relationships as a member of multi-disciplined team
- Strong written and verbal communication skills, including business and technical writing
- Strong organizational, interpersonal, and analytical skills
- Ability to work independently with minimal supervision where required
- Strong mentoring, training, and coaching of junior colleagues

Desirable:

- Engineering degree or advanced diploma in Electrical Engineering
- Trade certification in electrical or other relevant discipline
- Experience with Hazardous Areas

Employment Conditions:

Appointment to this role may be subject to pre-employment checks including:

- Background and qualifications
- Right to work in Australia
- Drug & Alcohol testing