

Substation and Grid Connection Engineer

OPPORTUNITY

Due to substantial growth and demand within the Australian infrastructure sector supporting the building & construction, energy, and mining industries, Ainira Industries is currently seeking applicants for Substation and Grid Connection Engineer to join our growing organisation headquartered in Melbourne, Australia.

We are an international sustainability and infrastructure powerhouse with a diverse range of assets and operations. We have offices on four continents, over 220 highly skilled staff, and maintain a steady line of upcoming projects in the building & construction and infrastructure arm of the business – we have several major wind and solar farms that are either operational, in construction, or heading into construction.

JOB DESCRIPTION

Through the projects we design, develop, commission, and operate we are building long term relationships with our customers, delivering highly scalable solutions and services that make a real difference to all our stakeholders. As Ainira continues on its evolution of innovation and growth, the best people and top professionals are critical to our success in supporting our clients and catering to market requirements.

Reporting to the Engineering Manager Infrastructure, the Substation and Grid Connection Engineer is the discipline technical lead and main point of contact for the Technology Department for ANZ and ASEAN. You will be required to engage with clients and contractors for technical aspects, and liaise with permitting agencies and regulatory bodies. Additionally, you will need to coordinate internally with various disciplines, participate in inter-department meetings, and review the work of junior engineers and technologists.

RESPONSIBILITIES

- End-to-end commercial delivery of contract strategy development, negotiation, formation and administration during all phases of the project
- Ensure substation and grid related technology portfolio and engineering architecture deliverable are met, and submit detailed assignment of the progress of projects
- Interface management and strategic discussions with internal stakeholders: Sales, Project Management, and Modelling and Simulation Engineers
- Layout plans and estimates costs for constructing transmission lines, visit proposed construction site and select best and shortest route to avoid interference with telephone and other infrastructure
- Conduct feasibility and detailed project cost estimates, and prepare planning including engineering, materials, and construction studies; inspection of completed installation
- Submits data on proposed route to right-of-way department for obtaining necessary easements, organise aerial, topographical, and other surveys to be made to obtain pertinent data for planning lines
- Perform detailed engineering calculations to draw up construction specifications, such as cable sag, pole strength, and necessary grounding
- Estimate labour, material, and construction costs, and draw-up specifications for purchase of materials and equipment

- Ensures engineering product design and specifications are built to the highest standards – devise steel and wood supporting structures for cables and draws sketch showing their location
- Conduct site inspections to ensure compliance with safety regulations, and participate in field inspections and field reviews of work during construction; perform troubleshooting activities as needed
- Collaborate with other engineers and technicians to ensure project success, provide technical support to other departments as needed
- Stay up-to-date with industry standards and codes, and emerging technologies in the electrical field to ensure compliance with safety regulations and quality standards in all transmission projects
- Working conditions include exposure to varying weather conditions and outdoor environments, and potential exposure to high-voltage electrical equipment

SKILLS and ABILITIES

- BSc or MSc in Electrical Engineering; CEC Design Accreditation essential; CPEng and RPEQ required
- Proven 7 years-plus successful development and installation of high-voltage transmission systems and equipment, and electrical infrastructure modelling, management, and connection to grid
- Proficiency in engineering software for design, modelling and analysis, such as PSSE and PSCAD, and ability to read and interpret electrical and construction plans, blueprints, and technical drawings
- Established experience in working with wind and solar renewable energy and battery energy storage systems within large-scale and complex EPC setups
- Strong knowledge of the challenges of grid integration in the Australian renewable energy market and AEMO guidelines
- Knowledge of SCADA and electrical BoP, and the ability to work on multiple projects simultaneously whilst adhere to project timelines and quality requirements
- Demonstrated high degree of initiative and attention to detail, alongside high level professional and technical design skills including problem-solving, project costing and budgeting
- Ability to confidently and comfortably present technical solutions to key customers and respond in a timely manner to their technical concerns by providing articulate answers to the customer's questions
- Excellent knowledge of legislation, regulations, design standards, and code of practice relating to the design, construction, management, and Occupational Work & Safety of transmission lines based project
- Capability to work in a fast-paced environment and adapt to changes in project requirements, both independently and as part of a team to achieve project goals

COMPENSATION

The Company offers a competitive compensation and benefits package.

APPLY

Click "Apply" below or use form in the Contact section – quote the reference number HR-IFR-0026. Only the shortlisted candidates will be contacted. Thank you for your interest.

Recruitment agencies, please note that no agency candidates will be accepted.