Grid and Power Transmission Engineer

OPPORTUNITY

Due to substantial growth and demand within the Australian infrastructure sector supporting the building and construction, energy, and mining industries, Ainira Industries is currently seeking applicants for Grid and Power Transmission 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.

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 are critical to our success in supporting our clients and catering to market requirements.

Reporting to the Engineering Manager Infrastructure, the Grid and Power Transmission Engineer plays a crucial role in setting up and managing communication networks on construction sites. They are responsible for designing and maintaining the data transmission systems, including the network infrastructure required for tasks such as project management, monitoring equipment, and ensuring effective communication.

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

- Design and test high-voltage transmission lines and equipment, especially at the 500kV level – must stay abreast of new developments in electric power transmission
- 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; inspect 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
- Prepare construction and material specifications and scope documents for construction tenders and contract, and develop and implement maintenance programs for transmission equipment
- 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 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 (preferred) in Electrical Engineering, or equivalent accredited degree is required
- Proven 5 years-plus successful development and installation of high-voltage transmission systems and equipment, as well as other electrical infrastructure (solar PV, wind power generation, substations)
- Proficiency in engineering software for design and analysis, and ability to read and interpret electrical and construction plans, blueprints, and technical drawings
- Proven experience in preparation of design documentation and cost estimates for multi-disciplinary projects including electrical circuits, power distribution, electronic schematics, and control systems
- Strong project management expertise, and the ability to manage multiple projects simultaneously, and 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
- Sound written and verbal communication, negotiation, organisational and interpersonal skills, including the ability to liaise with technical and non-technical staff/stakeholders at all levels
- 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
- Ability 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-0024. Only the shortlisted candidates will be contacted. Thank you for your interest.

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