

POSITION DETAILS

Title of Position:	Senior Substation Engineer
Reports to:	Manager Primary Systems Engineering
Division:	Delivery
Function:	Primary Systems Engineering
Number of Direct Reports:	Nil
Grade:	7

HEALTH, SAFETY & WELLBEING

ElectraNet is committed to a Safety-First culture and a work environment promoting the health, safety and wellbeing of all workers. To sustain this culture, all leaders are required to implement and maintain the areas of ElectraNet's safety management system under their control, where the health, safety and wellbeing of all workers comes first while ensuring full compliance with all legislative and policy requirements.

All employees are required to contribute to the Safety First culture by exercising their duty of care to themselves and one another, by working safely, by adhering to all reasonable safety instructions, by using all equipment provided in accordance with safe work methods and by promptly reporting any unsafe working practices or hazardous working conditions

POSITION OVERVIEW

The Senior Substation Engineer provides technical leadership for substation services and infrastructure. The Senior Substation Engineer is responsible for proactively contributing towards strategic initiatives, concept and detailed design and engineering services for achievement of business and performance objectives. The Senior Substation Engineer will support engineering delivery throughout the lifecycle of ElectraNet's substation assets from concept design to asset disposal within multiple capital projects and ensure compliance with ElectraNet's governance, technical standards and agreed performance outcomes. The Senior Substation Engineer is a key influencer of internal and external stakeholders, regularly generating solutions that continually adapt our substations to provide optimal performance and resilience.

Success in this role is characterised by proficiency in Substation Engineering, clear strategic thinking, effective communication, an ability to build relationships across broad stakeholder groups and engineering and design delivery excellence.

KEY RESPONSIBILITIES

A role at this level undertakes specialist work involving considerable independence and judgment. They help achieve business goals and objectives in the areas of:

LEADERSHIP

- Provide ongoing, balanced feedback that rewards positive results and supports team members to learn and grow.
- Embrace change, identify improvement, and support the change management process to ensure its success.
- Inspire, motivate, coach and mentor less experienced team members to be engaged, accountable and achieve best-practice in their respective disciplines.
- Role model in developing innovative substation design solutions and standards resulting in technical and commercial benefits.

- Partner with internal and external stakeholders to embed the learnings from previous projects, asset event investigations and condition monitoring activities to continually improve asset performance.
- Solve problems across business and divisional boundaries based on technical excellence, quality decision making and balanced judgement.
- Collaborate across internal and external organisational boundaries to build strategic relationships that support the achievement of business objectives and a high level of customer service.

OPERATIONAL & TECHNICAL

Working independently, you will be accountable for:

- Preparation and peer review of relevant technical deliverables including customer service proposals, engineering scopes, concept and detailed designs, technical investigations, tender assessment, contract technical specifications and field support for Capital Expenditure projects.
- Ensure specialist technical support for whole of life substation primary and infrastructure systems from concept, design, installation, operation and performance, maintenance and disposal. This includes ensuring that major items of HV plant integrate correctly with the overall design of the substation.
- Development and improvement of functional requirements specification, substation design philosophy and design standards.
- Ensure design specifications comply with industry safety and reliability standards and ElectraNet requirements.
- Actively contribute to “Safety in Design” for substation engineering projects and operations.
- Plan and prioritise own workload.
- Apply organisational guidelines, processes and systems to lead the way of best practice.
- Contribute to organisational obligations related to compliance with legislative requirements and regulations.
- Clearly communicate technical information and requirements to customer and stakeholders both internally and externally.

BEHAVIOURAL

- Create and develop a respectful workplace environment that values cultural diversity, innovation, open discussion and cross functional collaboration to help drive high performance.
- Lead by example; role model desired behaviour and priorities, demonstrate personal accountability for self-development and for achieving quality and timely result.
- Carry out the role in a professional and ethical manner and in accordance with ElectraNet’s values, Code of Conduct and other policies.

SIGNIFICANT WORKING RELATIONSHIPS

- Substation Engineering team and Manager
- Design Managers and Project Managers
- External Contractors & Suppliers
- Network Planners and Asset Strategies
- ElectraNet Asset Management

EQUIPMENT & TECHNOLOGY USED

- CDEGS
- AGi32
- PHAST
- CYMCAP
- Microstation and AutoCAD
- PowerCad 5
- EMTP
- Microsoft Office

SELECTION CRITERIA**KNOWLEDGE, SKILLS & EXPERIENCE:****Essential**

- Proficient in substation primary design and equipment, its performance and operation
- Proficient in substation primary concepts such as layouts, configurations, switchgear interlocks, earthing, lightning protection, insulation coordination, EMF, lighting design, fire risk assessment, noise modelling, security and substation auxiliaries
- Proficient in substation HV plant and infrastructure installation, commissioning and testing principles and requirements
- Demonstrated ability to prepare and review substation (primary and infrastructure design and construction) specifications
- Good understanding of asset life cycle management principles
- Competent in Civil and Structural design and construction in a substation context
- Good understanding of related disciplines such as secondary design, protection, SCADA, telecommunication, transmission lines design
- Knowledge of legislated industry requirements (WHS, National Electricity Rules, ESCOSA, OTR, AEMO Guidelines) as well as relevant Australian and IEC standards as applicable to substation requirements including HV plant.
- Proven ability to assess, recommend and implement new technologies in accordance with approved policies and procedures.
- Working knowledge of Failure Mode Effects Analysis (FMEA), Hazard and Operability assessment (HAZOP), Layers of Protection Analysis (LOPA), Reliability Centred Maintenance (RCM), and Root Cause Analysis (RCA)
- Competent contract administration capabilities
- Proficient analytical, investigation and problem-solving skills
- Proficient time management, coordination, and organisation skills
- Competent understanding of auditing processes
- Advanced written and verbal communication skills; good interpersonal skills
- Flexible approach to working hours and after-hours commitments.

Desirable

- Minimum 10+ years' experience, in Discipline related role
- Electricity Industry background an advantage

QUALIFICATIONS:

- Tertiary qualification in Electrical Engineering or relevant discipline (essential).
- Eligible for membership of Engineers Australia (essential)
- Chartered status with Engineers Australia (desirable)
- TAAM licence (desirable)

- White Card training (desirable)
- Driver's license (essential)

NOTE: Copies of the above listed qualifications/licences/certificates are required as evidence on appointment.
