

Position details

Title of Position:	Senior Protection Engineer
Reports to (position title):	Manager Secondary Systems Engineering
Division:	Delivery
Function:	Secondary 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 and security instructions, by using all equipment provided in accordance with safe and secure work methods and by promptly reporting any unsafe working practices, hazardous working conditions or security threats.

Position Overview

The Senior Protection Engineer is accountable to the Secondary Systems Engineering Manager and is responsible for the development and delivery of Protection System design. This includes duties such as developing scope and specifications, detailed engineering design, review and validation of designs, development of design standards and providing specialist technical advice support.

Success in this role is characterised by the ability of the Senior Protection Engineer in applying mature engineering knowledge, mentoring and supervising others, independently planning and conducting work on multiple projects simultaneously and developing successful working relationships with stakeholders for the achievement of ElectraNet business and performance objectives.

Key Responsibilities**Operational & Technical**

Working independently under minimal supervision as well as providing mentoring and supervision to others, you will be accountable for delivering technical advice, project and operational support as you:

- Prepare preliminary or detailed design, options analysis/risk assessments, scope and specifications of Protection Systems
- Perform engineering design review, compliance and validation including commissioning witnessing of Protection Systems
- Support development and maintenance of Protection System standards including equipment evaluation

- Plan and prioritise own workload, working across multiple projects simultaneously
- Support co-ordination of engineering project deliverables with stakeholders
- 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
- You may be directed to undertake other duties commensurate with your skills and classification level.
- Travel: Intra/Inter State as required
- Flexible approach to working hours – Some out of hours work may be required

Behavioural

- Build and maintain strong working relationships with and between internal and external stakeholders, delivering a high level of customer service.
- 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.
- Demonstrate behaviour that is consistent with ElectraNet's values, Code of Conduct and Acceptable Use of Technology Resources Policy while performing the role in a professional and ethical manner.
- Promote safe work practises that support the safety of all workers and the security of ElectraNet's assets, proactively reporting safety incidents, near misses and security threats.

Significant Working Relationships

- External Contractors
- ElectraNet Network Services
- ElectraNet Corporate Services (Operational Technology & Telecommunications)
- ElectraNet Asset Management
- SA Power Networks (SAPN)
- Australian Energy Market Operator (AEMO)

Equipment & Technology Used

- MS Office Suite
- Secondary Systems Software (GE, Micom, SEL, Siemens, Eberle, Schneider etc.)

Selection Criteria

Knowledge & Experience

Essential

- Advanced knowledge of HV power system protection schemes & principles
- Advanced knowledge of power system fundamentals and fault analysis
- Advanced knowledge of secondary systems circuitry design
- Knowledge of HV plant
- Advanced knowledge of protection system construction and commissioning
- Knowledge of DNP3 and IEC 61850 substation network communication standards

- Advanced knowledge of legislated industry requirements (National Electricity Rules, ESCOSA, AEMO Guidelines, Safety in Design etc.)
- Knowledge of Substation Automation System and Substation Infrastructure Engineering
- Ability to produce protection device (IED) settings and configuration files
- Knowledge of project delivery, meeting budget and schedule constraints
- Advanced written and verbal communication skills; good interpersonal skills
- Advanced analytical, investigation and problem-solving skills

Desirable

- Minimum 7 years' experience, in Protection related role
- Electricity Industry background an advantage

Qualifications

- Tertiary qualification in Electrical Engineering or relevant discipline (essential)
- Eligible for membership of Engineers Australia (essential)
- South Australian Car Driver's Licence (or eligibility to obtain one if international candidate)
- Chartered status with Engineers Australia (desirable)
- TAAM licence (desirable)
- White Card training (desirable)

Background Checks

- Pre-employment checks, including background and security checks (such as global criminal checks) are required for this position, completed prior to commencement and repeated on a regular basis after appointment.

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