

Position details

Title of Position:	Experienced Power System Engineer
Reports to (position title):	Manager Network Security and Access
Division:	Network
Function:	Security and Access
Number of Direct Reports:	NIL
Grade:	6

Health, Safety & Wellbeing

ElectraNet is committed to co-creating a workplace of choice and enriching the communities in which we operate.

As an industry leader, ElectraNet is at the forefront of the clean energy transition. We are socially and environmentally ambitious, and our continued commitment to developing, operating and maintaining our network in a way that creates opportunities for people and nature to thrive is essential to achieving our vision of energising South Australia's Clean Energy future.

Our commitment also drives our focus to create a physical and psychosocial environment that supports the health, safety and wellbeing of our people.

We all contribute to ElectraNet's workplace culture and have a duty of care to ourselves and one another to work safely, assess and manage risk, courageously speak up and promptly report any unsafe working practices, hazardous working conditions or security threats and to collectively learn and grow from every opportunity.

Position Overview

Experienced Power Systems Engineers contribute to power system operation and performance. They are responsible for providing analysis and reporting functions that meet customer needs, ensuring its capabilities result in resilient network performance.

Success in this role is characterised by a methodical approach, excellent attention to detail and the ability to collaborate with broad stakeholder groups to ensure deliverables are achieved.

Key Responsibilities**Operational & Technical**

Working independently and in collaboration with other technical experts, you will support provision of network security compliance, delivering technical analysis and advice, and operational support to the wider team in terms of:

- Security and reliability assessments for unplanned events, planned outages, advising key stakeholders of mid and longer-term network access opportunities
- Development of contingency plans or recommendations to manage system security
- Assisting in developing operating instructions to manage system security
- Work in conjunction with Network Development Team & AEMO in establishing network limit equations
- Monitoring and reporting on Power System compliance issues
- Compiling, interpreting, validating and processing a range of network performance data

- Providing recommendations and advice on network performance measures and systems
- Assisting during investigations of unplanned power system incidents (i.e. post-fault data), analysis on the event and recommendations where necessary
- Development and maintenance of the real time system's transmission network model and associated databases
- Supporting, quarterly and annual network performance reports, including exception reporting and Statutory Submissions for ElectraNet, the Board and external customers and the Australian Energy Regulator
- Providing support in relation to outage and fault event analysis
- Contribute to inter-organisational obligations related to compliance in relation to all technical requirements, regulations and legislation certification.
- Providing operational advice and feedback to support effective planning for future network needs.

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 Customers & Suppliers
- ElectraNet Network Development
- ElectraNet Network Services
- SA Power Networks (SAPN)
- Australian Energy Market Operator (AEMO)
- Government agencies

Equipment & Technology Used

- Energy Management Systems (EMS) and associated tools
- PSS/E
- Knowledge on any of the applications listed below are advantageous;
- OSI EMS and PAS Tools
- PSCAD
- Power Factory
- Other specialist analysis tools, e.g. PLEXOS, MATLAB

Selection Criteria

Knowledge & Experience

Essential

- Applying theoretical and practical knowledge to solve commonly encountered problems
- Applying generally accepted concepts, principles and standards in well-defined areas
- Undertake ongoing tasks being performed on either a daily/weekly/monthly basis
- Demonstrable knowledge of network planning & analysis
- Knowledge of legislated industry requirements (i.e. National Electricity Rules, ESCOSA, OTR, AEMO Guidelines)
- Well-developed analytical, investigation and problem-solving skills
- Demonstrable advanced written and verbal communication skills; good interpersonal skills
- Knowledge of transmission system reliability and performance
- Knowledge of substation and transmission system components, performance and operation
- Demonstrable ability to work as a team member and actively promote office harmony

Desirable

- As a guide minimum 7 years' experience, and demonstrated capability in an Engineering related role
OR
- 5 years' experience in an operational role
- Electricity Industry background
- Flexible approach to working hours and after-hours commitments

Qualifications

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