

Position details

Title of Position:	Senior Power System Engineer
Reports to (position title):	Manager Network Connections Standards/Manager Network System Strength and Testing
Division:	Network
Function:	Network Connections
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

Senior Power System Engineers specialise in power system planning and network performance. They have a sound understanding of underlying principles and established techniques and spend their days applying creativity and innovation to plan for the future requirements and possibilities of our network. They enjoy the challenge of generating and implementing new ideas and solutions that continually transform our network to meet customer needs, ensuring its capabilities result in resilient 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**Strategic & People Leadership**

- Take initiative, drive for outcomes, take ownership, make independent decisions and formulate policies and procedures within established frameworks to obtain the best performance and results.
- Plan, direct, manage, coordinate and supervise work of other employees including professional employees.
- Provide ongoing, balanced feedback that rewards positive results and supports employees to learn and grow.
- Inspire, motivate, mentor and develop employees to be engaged, accountable and achieve best practice in their respective disciplines.

- Support external stakeholder management to deliver effective engagement with consumers and other stakeholders and support the regulatory positioning of the business.

Operational & Technical

Operating autonomously, under minimal supervision, you will be accountable for providing technical advice and operational support in:

Proactively managing Customer Connections by coordinating, developing and/or specialising in:

- Providing specialist advice to Business Development on customer connections
- Evaluation of customer connection proposals
- Management connection technical assessments
- Negotiation of Generator Performance Standards

Proactive Long-Term Planning by coordinating, developing and/or specialising in:

- Planning inputs and analysis, including market benefits analysis
- Assessment of development opportunities via scenario planning and market modelling

Developing planning reports, e.g. Transmission Annual Planning Report Develop & maintain fit for purpose power system models and provide specialist analysis to support a secure and operable system now and into the future by coordinating, developing and/or specialising in:

- Development and maintenance of power system models, including testing and commissioning
- System capability and system security analysis, including network transfer capability analysis
- Connection compliance and performance
- Operational planning
- Equipment and line ratings

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 Corporate Development
- ElectraNet Network Services
- SA Power Networks (SAPN)

- Australian Energy Market Operator (AEMO)
- Essential Services Commission of SA (ESCOSA)

Equipment & Technology Used

- PSS/E & AULimit
- PSCAD
- Power Factory
- Other specialist analysis tools, e.g. PLEXOS, Mudpack & Matlab

Selection Criteria

Knowledge & Experience

Essential

- Knowledge of transmission system reliability and performance
- Knowledge of substation and transmission system components, performance and operation
- Advanced analytical interpretation and problem-solving skills
- Strong understanding and application of engineering analytical techniques planning, system design and operational support
- Strong understanding and application of physics and mathematical principles in conducting system planning and operational support
- Ability to identify and steer opportunities for business improvement by effectively influencing stakeholders
- Strong understanding of the economic impact of solutions to complex technical problems
- Ability to undertake programming using Python or similar
- Knowledge of legislated industry requirements (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
- Demonstrable ability to work as a team member and actively promote office harmony

Desirable

- As a guide minimum 10 years' experience, and demonstrated capability in an Engineering related role

Qualifications

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