

Position Description

POSITION DETAILS

Title of Position:	Experienced Power System Engineer
Reports to:	Manager Network Capability / Manager Network Connections
Division:	Network
Function:	Network Capability / Network Connections
Number of Direct Reports:	Nil
Grade:	6

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

Experienced Power System Engineers contribute to overseeing power system planning and network performance. They understand 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.

KEY RESPONSIBILITIES

OPERATIONAL & TECHNICAL

Working independently under minimal supervision, you will be accountable for delivering technical advice and operational support in:

Proactively managing Customer Connections by autonomously contributing to:

- Evaluation of customer connection proposals
- Connection technical assessments and negotiation of Performance Standards

Proactive Long Term Planning by autonomously contributing to:

- 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 autonomously contributing to:

- 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

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- 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.
- Provide work direction and delegation of technical advice and operational support to less experienced team members where appropriate.
- 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

- 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, SKILLS & EXPERIENCE:

Essential

- Applying theoretical and practical knowledge to solve commonly encountered problems
- Ability to demonstrate a thorough understanding of knowledge, concepts, processes and activities
- Application of in depth professional knowledge and understanding to technical or business problem solving
- Capable undertaking small projects, short-term, weekly to quarterly timeframes
- Ability to undertake regular ongoing tasks being performed on a daily/weekly/monthly basis
- Ability to share and communicate with impact and effectiveness to others
- The application of engineering analytical techniques planning, system design and operational support;
- Applying established methods and approaches to engineering problems;
- Understanding and application of physics and mathematical principles in conducting system planning and operational support;
- Applying economic impact of solutions to technical problems.
- Ability to undertake programming using Python or similar
- Knowledge of legislated industry requirements (National Electricity Rules, ESCOSA, OTR, AEMO Guidelines)

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- 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

- Minimum 7 years' experience, and demonstrated capability in an Engineering related role
- Electricity Industry background an advantage

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)

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