

Position Description

POSITION DETAILS

Title of Position:	Senior Power System Engineer
Reports to:	Manager Capability / Manager Connections
Division:	Network
Function:	Network Capability / 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 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

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 impactful and influential leadership, clear strategic thinking, and an ability to build relationships across broad stakeholder groups and engineering and design delivery excellence.

KEY RESPONSIBILITIES

STRATEGIC INFLUENCING

- 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

Capable of working for extended periods under general supervision, you will be accountable in contributing to technical advice and operational support in:

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Develop technical deliverables & make technical decisions in accordance with the ElectraNet Technical Authority Framework.

Providing technical leadership, mentoring & supervising others, you will be accountable for delivering technical advice and operational support in key areas of focus and/or specialisation from the below:

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.
- 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

Position Description

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

SELECTION CRITERIA

KNOWLEDGE, SKILLS & EXPERIENCE:

Essential

- Possesses In-depth specialised knowledge of concepts, processes & activities
- Advanced analytical interpretation and problem-solving skills
- Experienced in coordinating / developing an array of smaller projects as part of a larger business plan or working in a specialist capacity monthly to six monthly.
- 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)
- 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
- Flexible approach to working hours and after-hours commitments

Desirable

- Minimum 10 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.