

Position details

Title of Position:	Network Planning Engineer
Reports to (position title):	Manager Network Portfolio and Planning
Division:	Network
Function:	Portfolio and Planning
Number of Direct Reports:	Nil
Grade:	5

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

Accountable to the Manager, Network Portfolio and Planning, Network Planning Engineers specialise in power system planning, network performance, and project portfolio governance. They possess a basic understanding of the engineering, regulatory, and economic principles that underpin network augmentation decision-making.

Working collaboratively with customers and internal stakeholders, they determine optimised connection options for new customers and contribute to planning network augmentations within the five-year regulatory reset framework. They also support governance over the network portfolio of projects for the current regulatory reset period.

Network Planning Engineers work closely with experienced, senior, lead, and principal engineers to deliver reliable, high-quality outputs. They demonstrate a level of autonomy and sound judgement within the boundaries of their expertise and model behaviours that graduate and early-career engineers can emulate as they develop their careers.

They are motivated by the challenge of generating and implementing new ideas and solutions that continually transform the network to meet customer needs, ensuring resilient performance and long-term capability.

Key Responsibilities

Operational & Technical

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

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 leading & informing people leaders in the delivery of:

- Providing specialist advice to Business Development and Delivery division on customer connections.
- Evaluation of customer connection proposals.
- Management of connection technical assessments up to the execution of the connection enquiry.

Proactive Long-Term Planning by leading & informing people leaders in the delivery of:

- Planning reports, including Network Development Plans and the Transmission Annual Planning Report
- Assessments to development opportunities via scenario planning and collaboration with the Strategy division for market modelling.
- Planning inputs and analysis, including technical support to the Strategy division with market benefits analysis.
- Supporting the Strategy division with the Regulatory Investment Tests for Transmission process for projects.

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 leading & informing people leaders in the delivery of:

- System capability and system security analysis, including network transfer capability analysis.
- Preliminary connection compliance and performance.
- Operational planning.
- Information to manage equipment and line ratings.
- Ultimate single line, site layout and control room diagrams.

Proactively managing the Network portfolio of executed projects by leading & informing people leaders in the delivery of:

- Providing a supporting governance function against an existing project delivery framework.
- Highlighting concerns and deviations from original project intent with the project sponsor.
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- Highlighting concerns early and making recommendations to mitigate time and cost variations on projects.

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
- The wider ElectraNet Network Division
- ElectraNet Strategies, Assets and Delivery Divisions
- SA Power Networks (SAPN)
- Australian Energy Market Operator (AEMO)
- Essential Services Commission of SA (ESCOSA)

Equipment & Technology Used

- PSS/E
- Python
- Microsoft suite including Visio

Selection Criteria

Knowledge & Experience

Essential

- Analytical interpretation and problem-solving skills
- Ability to share and communicate with impact and effectiveness to others
- Applying established methods and approaches to engineering problems;
- Understanding and application of physics and mathematical principles in conducting system planning and operational support;
- Ability to undertake programming using Python or similar
- Ability to undertake task or routine day-to-day activities
- Basic knowledge of legislated industry requirements (National Electricity Rules, ESCOSA, OTR, AEMO Guidelines)
- Sound analytical, investigation and problem-solving skills
- Demonstrable, good 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 5 years' experience and demonstrated capability in Discipline related role
- Electricity Industry background an advantage
- Flexible approach to working hours and after-hours commitments

Qualifications

- Tertiary qualification in Electrical Engineering or relevant discipline (essential).

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.