

# Position Description

## POSITION DETAILS

<b>Title of Position:</b>	Senior Lines Engineer (Civil)
<b>Reports to:</b>	Manager Primary Systems Engineering
<b>Division:</b>	Delivery
<b>Function:</b>	Primary Systems Engineering
<b>Number of Direct Reports:</b>	Nil
<b>Grade:</b>	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

The Senior Lines Engineer is responsible for specialised work relating to line engineering services and infrastructure thus ensuring compliance to ElectraNet's Regulatory performance and network operation obligations. The Senior Lines Engineer will deliver as an SME in technical aspects of design delivery such as functional and detailed design, equipment selection, construction and commissioning (including installation, testing and operation). The Senior Lines Engineer is a key influencer of internal and external stakeholders, regularly generating solutions that continually adapt to provide optimal performance and resilience.

This role focuses on civil and structural aspects of transmission line and cable systems as well as interfacing with other technical disciplines such as substation and telecommunication. The civil and structural discipline for Lines focuses on whole of life transmission and cable infrastructure systems, transmission line route options, environmental and community interface management, line survey practices, line design and cable modelling, design and selection of insulator arrangements and line hardware, site investigation works, structures and foundations as well as general infrastructure civil works.

Success in this role is characterised by proficiency in Lines design, strong technical expertise, clear strategic thinking, effective communication, and an ability to build relationships across broad stakeholder groups to drive complex resolutions effectively.

## KEY RESPONSIBILITIES

A role at this level undertakes professional, specialist work involving considerable independence, originality, ingenuity, and judgment. They help achieve business goals and objectives in the areas of:

### STRATEGIC & PEOPLE LEADERSHIP

- Support the Substation and Lines Engineering Manager by working closely with the Principal Lines Engineer to deliver key strategic and improvement initiatives, including major projects and the overall divisional objectives.
- Possess a strong commercial focus to deliver within timelines and budget.
- Solve problems within the discipline and division based on technical excellence, quality

## Position Description

decision making, balanced judgement and technical leadership of a high performing team.

- Role model in developing innovative Line design solutions and influencing standards resulting in technical and commercial benefits.
- Provide ongoing, balanced feedback that rewards positive results and supports team members to learn and grow.
- Embrace change and support the change management process to ensure its success.
- Foster technical innovation, acquisition of expertise and supporting a continuous improvement culture by being aware of technical developments and responding accordingly.
- Partner with internal and external stakeholders to embed the learnings from previous projects, asset event investigations and to continually improve asset performance.
- Collaborate across internal and external organisational boundaries to build strategic relationships that support the achievement of business objective and a high level of customer service.

### OPERATIONAL & TECHNICAL

- Develop, peer review and support the preparation of relevant technical deliverables including customer service proposals, technical resource plans, design briefs, engineering scopes, concept and detailed designs, technical investigations, tender assessment, contract technical specifications, construction quality management, cost estimation and develop application documentation for lines engineering projects.
- Ensure specialist civil and structural technical support for whole of life transmission line and cable infrastructure systems from concept, design, construction, procurement, materials, operation and performance, maintenance and disposal.
- Identification and analysis of transmission line route options with due consideration of technical, planning, environment and cost.
- Lead the quality review of technical design and investigation reports.
- Development and improvement of functional requirements specification, line/cable design philosophy and design standards.
- Actively contribute to “Safety in Design” for lines engineering projects and operations.
- Ensure the quality of and that design specifications comply with industry safety and reliability standards and ElectraNet requirements.
- Clearly communicate technical information and requirements to customer and stakeholders both internally and externally.
- Provide engineering advice to relevant stakeholders in areas including on-site asset construction, operational and maintenance technical support.
- Developing a good understanding of the ElectraNet Transmission network.
- Ensuring best practice approach is applied to the delivery of lines design.
- Continually assess the design, manufacture, and construction of lines to ensure it complies with industry safety and reliability standards and ElectraNet requirements.
- Support the performance and analysis of site acceptance tests for lines and cable infrastructure.
- Provide interpretation of inspection test plans to ensure safe energisation and operation of lines and cables as part of project delivery.

### BEHAVIOURAL

- Build and maintain strong, influential working relationships with and between internal and external stakeholders, delivering a high level of customer service and results
- Create and develop a respectful workplace environment that promotes open discussion and cross functional collaboration to help drive high performance.

## Position Description

- Lead the continual evolution of a constructive workplace culture; inspire, motivate and coach people to operate in a high-capability, high-performing and agile environment.
- Lead by example; role model the Safety First culture; demonstrate personal accountability for self-development and for achieving quality and timely results.
- Carry out the role in a professional and ethical manner and in accordance with ElectraNet's values, Code of Conduct and other policies.
- Support development and growth of junior engineers within the team.

### SIGNIFICANT WORKING RELATIONSHIPS

- Primary Systems Engineering team and Manager
- Principal Lines Engineer
- Delivery Division
- Internal Teams and Divisions
- External Contractors and Consultants
- Original Equipment Manufacturers

### EQUIPMENT & TECHNOLOGY USED

- PLS-CADD
- PLS POLE
- PLS TOWER
- SPACE GASS
- Microstation and AutoCAD
- AutoCAD Civil 3D
- Microsoft Office

### SELECTION CRITERIA

#### KNOWLEDGE, SKILLS & EXPERIENCE:

##### Essential

- Proficient in line and cable design, structure and foundation design, construction, operation and materials.
- Proficient knowledge of the whole of life function and operation of high voltage electricity transmission networks and transmission line practices.
- Expert knowledge and experience in structural design (poles, towers, gantries, and substation equipment stands) for power transmission projects.
- Expert knowledge of specifications, installation, testing methods of overhead line materials (e.g. conductor, OHEW, OPGW and hardware) and/or underground HV cable.
- Expert knowledge and experience of route selection, environmental and community interface management, line survey practices, line design and cable modelling, design and selection of insulator arrangements and line hardware, and preparation of "for construction" design documentation.
- Expert knowledge of civil, structural, engineering survey, geotechnical investigations, construction management and live line maintenance procedures.
- Proficient knowledge and experience of PLS-CADD, PLS POLE, PLS TOWER, SPACE GASS and other civil, structural and line design software & tools.
- Demonstrated ability to prepare and review line specifications.
- Good understanding of electrical line design principles relating to line uprating solutions, line induction, earth potential rise, earthing, lightning protection, EMF, corona and RFI/TVI.
- Good understanding of related disciplines such as telecommunication and substation primary design.
- Knowledge of legislated industry requirements (WHS, National Electricity Rules, ESCOSA, OTR,

## Position Description

AEMO Guidelines) as well as relevant Australian and IEC standards as applicable to line design.

- Proven ability to assess, recommend and implement new technologies in accordance with approved policies and procedures.
- Competent contract administration capabilities.
- Advanced analytical, investigation and problem-solving skills.
- Advanced time management, coordination, and organisation skills.
- Advanced written and verbal communication skills; good interpersonal skills.
- Flexible approach to working hours and after-hours commitments.

### Desirable

- Minimum 7 years' experience in the design, installation/commissioning, operation and/or maintenance of transmission line and cable assets.

### QUALIFICATIONS:

- Tertiary qualification in Civil or Structural Engineering or relevant discipline (essential)
- Eligible for membership of Engineers Australia (essential)
- Chartered status with Engineers Australia (desirable)
- AL: General Substation Access (desirable)
- White Card training (desirable)

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

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