

Position details

Title of Position:	Civil Engineer
Reports to:	Manager Substation Engineering
Division:	Delivery
Function:	Substation Engineering
Number of Direct Reports:	Nil
Grade:	5

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

The Civil Engineer is responsible for the work relating to civil engineering services and infrastructure thus ensuring compliance to ElectraNet's Regulatory performance and network operation obligations. The Civil 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).

This role focuses on civil engineering aspects of substation as well as interfacing with other technical disciplines such as lines infrastructure and telecommunication. The civil engineering discipline for substation focuses on the civil engineering aspects of designing, constructing, and maintaining electrical substations, ensuring the foundations, structures, and site infrastructure are robust and compliant with industry standards.

Success in this role is characterised by strong knowledge in design of civil engineering features (primarily substation earthworks, structures, foundations and buildings, roads and drainage systems), technical expertise, clear strategic thinking, effective communication, and an ability to build relationships across broad stakeholder groups to drive complex resolutions effectively.

Key Responsibilities**Operational & Technical**

- Support the Manager Substation Engineering by working closely with the Lead Civil/Substation 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 expertise.
- Develop innovative Civil 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.
- Develop 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 assesment, contract technical specifications, construction quality management, cost estimation and develop application documentation for substation engineering projects.
- Ensure civil technical support for whole of life substation and lines infrastructure systems from concept, design, construction, procurement, materials, operation and performance, maintenance and disposal.
- Quality review of technical design and investigation reports.
- Contribute to the improvement of functional requirements specification and design standards.
- Actively contribute to “Safety in Design” for substation 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 Substation and civil infrastructure infrastructure design.
- Continually assess the design, manufacture, and construction of lines to ensure it complies with industry safety and reliability standards and ElectraNet requirements.
- Oversee the construction of the substation’s civil elements, ensuring that the project adheres to the design specifications and industry standards.
- Support the performance and analysis of site acceptance tests for Substation civil infrastructure.
- Provide interpretation of inspection test plans to ensure safe energisation and operation of substation as part of project delivery.

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

- Substation Engineering team and Manager
- Lead Civil/Substation Engineer
- Project Delivery Division
- Asset Engineering Team
- External Contractors and Consultants
- Original Equipment Manufacturers
- ElectraNet Assets Division
- Network Planning and Business Development

Equipment & Technology Used

- Civil and structural analysis and design software
- Microsoft Office
- Structural modelling software

Selection Criteria

Knowledge & Experience

Essential

- Familiarity with the layout and function of electrical HV substations, including the types of equipment used.
- Strong understanding of civil engineering principles, including structure and foundation design, civil engineering survey, geotechnical investigations, hydrological study and construction management.
- Knowledge and experience of site selection, environmental and community interface management.
- Strong knowledge of bulk earthwork & platform design, internal & peripheral drainage design, access road design, design of trench, pit, bund and firewall.
- Strong knowledge of civil infrastructure construction, operation and materials.
- Knowledge of design documents and drawings necessary to complete a project.
- Demonstrated ability to prepare and review civil design & construction specifications.
- Knowledge of legislated industry requirements (WHS, National Electricity Rules, ESCOSA, OTR, AEMO Guidelines) as well as relevant Australian standards as applicable to substation design.
- Ability to assess, recommend and implement new technologies in accordance with approved policies and procedures.
- Strong analytical, investigation and problem-solving skills.
- Strong time management, coordination, and organisation skills.
- Advanced written and verbal communication skills; good interpersonal skills.
- Flexible approach to working hours and after-hours commitments.
- Flexible to travel out of town for short periods of time as required by projects and assignments.

Desirable

- Minimum 3 to 5 years' experience, in the design, installation/commissioning, operation and/or maintenance of substation civil infrastructure.
- Experience of AutoCAD Civil 3D or equivalent civil infrastructure design software & tools to produce complete detail design of substation civil infrastructure.

Qualifications

- Tertiary qualification in Civil Engineering or relevant discipline (essential)
- Eligible for membership of Engineers Australia (essential)
- Chartered status with Engineers Australia (desirable)
- White Card training (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.