

# Position Description

## POSITION DETAILS

<b>Title of Position:</b>	Experienced Automation Engineer
<b>Reports to:</b>	Lead Automation Engineer
<b>Division:</b>	Delivery
<b>Function:</b>	Secondary Systems Engineering
<b>Number of Direct Reports:</b>	Nil
<b>Grade:</b>	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

The Experienced Automation Engineer is accountable to the Lead Automation Engineer and is responsible for the development and delivery of Automation System design. This includes duties such as developing scope and specifications, detailed engineering design, review and validation of designs, development of design standards and providing specialist technical advice support.

Success in this role is characterised by the ability of the Experienced Automation Engineer in applying mature engineering knowledge, independently planning and conducting work on multiple projects simultaneously and developing successful working relationships with stakeholders for the achievement of ElectraNet business and performance objectives.

## KEY RESPONSIBILITIES

### OPERATIONAL & TECHNICAL

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

- Prepare preliminary or detailed design, options analysis/risk assessments, scope and specifications of Substation Automation Systems
- Perform engineering design review and validation including commissioning witnessing of Substation Automation Systems
- Support development and maintenance of Substation Automation System standards including equipment evaluation
- Support integration of substation IEDs into the Substation Automation System and remote engineering access
- Plan and prioritise own workload
- Support co-ordination of engineering project deliverables with stakeholders
- Apply organisational guidelines, processes and systems to lead the way of best practice
- Contribute to organisational obligations related to compliance with legislative requirements and regulations

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- You may be directed to undertake other duties commensurate with your skills and classification level.
- Travel: Intra/Inter State as required
- Flexible approach to working hours – Some out of hours work may be required

### 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 Contractors
- ElectraNet Network Services
- ElectraNet Corporate Services (Operational Technology & Telecommunications)
- ElectraNet Asset Management
- SA Power Networks (SAPN)
- Australian Energy Market Operator (AEMO)

### EQUIPMENT & TECHNOLOGY USED

- MS Office Suite
- Secondary Systems Software (GE, Micom, SEL, Siemens, Eberle, Schneider etc.)

### SELECTION CRITERIA

#### KNOWLEDGE, SKILLS & EXPERIENCE:

##### Essential

- Knowledge of SCADA/Substation Automation Systems and Architecture
- Knowledge of DNP3 and IEC 61850 substation network communication standards
- Knowledge of system interfaces to SCADA Master Station, Protection IEDs, Telecommunication, remote engineering access, condition monitoring equipment and National Grid Metering
- Knowledge of existing electricity industry legacy Substation SCADA RTUs and Control System equipment and design
- Knowledge of Substation SCADA database structure and use
- Knowledge of Substation Metering and circuitry design
- Knowledge of HMI and EMS
- Knowledge of Voltage Regulation, Auto-Reclose and Synchronising Schemes
- Knowledge of SCADA/Substation Automation System construction and commissioning
- Knowledge of legislated industry requirements (National Electricity Rules, ESCOSA, AEMO Guidelines, Safety in Design etc.)
- Knowledge of Power System Fundamentals
- Basic knowledge of Protection Design and Substation Infrastructure Engineering
- Ability to produce automation and control device (IED) settings and configuration files
- Basic knowledge of project delivery, meeting budget and schedule constraints
- Competent written and verbal communication skills; good interpersonal skills
- Competent analytical, investigation and problem-solving skills

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- Applying theoretical and practical knowledge to solve commonly encountered problems
- Applying generally accepted concepts, principles and standards in well-defined areas
- Undertake ongoing tasks being performed on either a daily/weekly/monthly basis
- Flexible approach to working hours and after-hours commitments

### Desirable

- Minimum 5 years' experience, in Substation Automation related role
- Electricity Industry background an advantage

### QUALIFICATIONS:

- Tertiary qualification in Electrical Engineering or relevant discipline (essential)
- Eligible for membership of Engineers Australia (essential)
- South Australian Car Driver's Licence (or eligibility to obtain one if international candidate)
- Chartered status with Engineers Australia (desirable)
- TAAM licence (desirable)
- White Card training (desirable)

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