

Position Description

Position Title: Senior Electrical / SCADA Engineer	Location: Launceston – state-wide focus	Water Award Classification: Level 8
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Reports To: Manager, Asset Management & Maintenance Planning	Direct Reports: Nil
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Primary Objective

To be a key member of the Technical Support Services Team providing technical guidance and leadership of the electrical, data and control systems function to support the water delivery and development functions of Tasmanian Irrigation.

The Senior Electrical / SCADA Engineer is a state-wide role with a primary focus on the provision of electrical (including generation and HV) and control systems strategy, asset planning and management, design and other technical support services, to the Water Delivery and Program Development and Delivery groups.

Key Roles and Responsibilities

- To lead and develop the electrical and control systems capability within TI, providing values-based leadership with an ongoing focus on water delivery, safety, efficiency and effectiveness.
- Develop and implement maintenance of electrical and control systems through asset management and maintenance plans and develop focused, innovative, responsive solutions to improve operational effectiveness.
- Prioritise works to ensure the provision of high quality, timely electrical and control services, strategic and operational support, analysis and advice to General Managers' Water Delivery and Program Development and Delivery and their respective teams.
- Progress standardisation of systems and design standards for electrical and control systems whilst maintaining adherence to TI's contractual, statutory and regulatory obligations.
- Provide engineering support for in-field problem solving and fault finding, including root cause analysis and identification of applicable equipment upgrades.
- Undertake programming and design of SCADA, PLC, RTU, HMI and other control systems.
- Develop and upkeep relevant technical support service strategies, design standards, policies, and procedures to ensure currency and compliance with statutory, regulatory, engineering standards and (where relevant) government requirements.
- Provide exemplary safety leadership.
- Provide support to enable the development of the forward capital program for Tasmanian Irrigation including supporting the development of funding applications and justifications.
- Provide support to enable the development (including Business case development), design, justification, contractual structuring, procurement, delivery, commissioning and operational handover of capital projects.
- Progress the establishment, regulatory approval and connection of new generation and HV assets.

- Provide required support services and advice to ensure that operational and capital Business Case justifications (financial and economic) are comprehensive, accurate and support ongoing efficient operations and maintenance as well as sustainability of TI's asset base.
- Work with the GMs Water Delivery and Program Development and Delivery and their respective teams to ensure effective and fit for purpose scheme infrastructure (including Generation and HV assets) designs that meet regulatory, statutory, commercial, water delivery operational and funding requirements.
- Provide strategic and operational technical analysis and advice to support reporting to the CEO, Board, Project Control Group and senior leadership team, and a range of external stakeholders including regulators.
- Ensure that structured asset maintenance and safety monitoring is in place for electrical (including generation and HV) and control assets.
- Support the development, delivery and reporting of TI's annual Corporate Plan.
- Assist in developing a team culture that ensures the delivery of quality, streamlined, innovative, integrated and cost-effective services, including use of IT solutions to improve service, maintain records and reduce costs.
- Ensure regulatory, statutory and code compliance across support services functions, particularly regarding Electrical & HV.
- Effectively manage day to day activities of SCADA projects and enhancements including vendors, suppliers, technicians and specialists consistent with TI's expectations for capability, value, and customer satisfaction.
- Ensure change management processes are followed and updated documentation is developed for all infrastructure changes.

Workplace Health & Safety

- Provide exemplary safety leadership in the organisation, promoting a safety-based culture.
- Be responsible for own health & safety (including mental health) and the health and safety of others.
- Lead employees, contractors and other service providers to ensure compliance with workplace safety requirements.
- Actively promote Workplace health and safety.
- Understand and deliver on Workplace Health and Safety responsibilities, and follow and enforce procedures for reporting hazards, incidents and injuries in line with company and certification requirements.
- Be aware of and promote fire and emergency procedures.
- Ensure all WHS related policies and procedures are always upheld, and abide by all WHS directives, including complying with safe work practices including utilisation of personal protective equipment and clothing.

Organisational Environment

- Be an exemplar of the organisational values of health safety and wellbeing, partnering, teamwork, communication and humility.
- Act with integrity and fairness in all dealings with internal and external stakeholders.
- Lead the continual development of policies and processes that aim to achieve the balance between simplicity, efficiency, robust compliance and quality.
- Ensure adherence, both personally and within the team, to TI instructions, policies and procedures.

Skills Competencies / Selection Criteria	
Essential	Desirable
<p>Demonstrated engineering and leadership experience or capability with substantial expertise across provision of:</p> <ul style="list-style-type: none"> • Electrical and SCADA engineering and design, including power systems, generation and HV electrical assets and control systems, • Asset management, maintenance and planning, • Operational optimisations, • Project development and delivery with direct budgetary and cost control responsibility. 	<p>Experience in an operational maintenance development and delivery environment.</p>
<p>Demonstrated expertise or capability to deliver high quality services whilst simplifying and optimising processes, driving performance improvement, customer focus and efficiencies.</p>	<p>Understanding of water management systems, assets and modelling.</p>
<p>Demonstrated high level conceptual and problem-solving skills, including the ability to analyse evidence, interrogate data and provide strategic advice and solutions.</p>	<p>Experience in problem analysis processes such as RCA, 5 why's etc.</p>
<p>Demonstrated PLC, RTU, HMI and SCADA design and programming skills.</p>	<p>Schneider & kingfisher product experience.</p>
<p>Demonstrated experience in managing provision of services using a combination of in and outsourced providers.</p>	
<p>Demonstrated high level interpersonal skills encompassing written, oral and communication elements, including the ability to prepare and present high-level documentation relevant to a range of audiences and suitable for internal, external, executive and ministerial consumption.</p>	
<p>Formal relevant engineering qualifications.</p>	
Working Conditions	
<p>This role is a state-wide role based in Launceston office. This role will involve travel around the state and out of hours meetings.</p>	
Physical Requirements	
<p>This role is primarily based in an office however there will be significant driving involved in varied conditions so the ability to drive in variable weather conditions will be required. Maintenance of a valid driver's licence is mandatory This role will involve inspecting work sites and involve out of hours meetings and monitoring of events from time to time.</p>	

Key Working Relationships

Internally this position works with / or as:

- A member of the Technical Support Services team and as such must work across the whole organisation
- GM Technical Support Services
- Manager, Asset Management & Maintenance Planning
- Senior Leadership Team members
- Board and Sub Committees
- Project Control Group
- Water Delivery Team Leaders
- Power Station and Electrical O&M lead
- Scheme Operators
- Finance and Corporate services

Externally key working relationships are with:

- Tas Networks
- AEMO
- Electrical regulators
- Safety and Other compliance regulators
- External contractors, service providers and suppliers of products
- External consultants

Verification:

We certify that the content of this position description is accurate:

Position Holder: _____ / /

CEO : _____ / /