SCADA & Electrical Engineer

POSITION DESCRIPTION

Position Title:	Scada & Electrical Engineer
Reports To:	Manager Operations & Assets
Location:	Launceston
Instrument:	Water Services Award 2020
Award Classification:	Level 8
Salary Band:	$125,000 to $155,000
Employment Basis:	Full Time
Hours of Work:	38 hours per week / Monday to Friday, 8.30am to 5.00pm

Organisation

Tasmanian Irrigation Pty Ltd (TI) is the State-owned Company responsible for developing and operating irrigation schemes, typically funded through public / private partnerships.

Since Tasmanian Irrigation was established in 2008, the Company has taken over management of a range of inherited assets, including dams, irrigation schemes and river works, constructed 16 new irrigation schemes, and advanced planning on a further six schemes.

By 2030, Tasmanian Irrigation expects to manage a portfolio of irrigation infrastructure valued at more than $900 million, capable of delivering 236,000 megalitres of water via 1,786km of pipeline, 49 pump stations, 15 dams and three power stations.

All schemes developed and operated by Tasmanian Irrigation are economically viable, environmentally sustainable, have strong community endorsement, are designed to last at least 100 years and deliver water at an average reliability of more than 95 per cent per annum.

Role Purpose

To be a key member of the Asset Management Team providing technical guidance of the electrical, data and control systems to support the water delivery and development functions of Tasmanian Irrigation.

The SCADA & Electrical Engineer is a state-wide role with a primary focus on the provision of electrical and control systems strategy & design, asset management and technical support to the Water Delivery and Program Development and Delivery groups.

Key Responsibilities

- To develop the electrical and control systems capability within TI, providing values-based leadership with an ongoing focus on water delivery, safety, efficiency, and effectiveness.
- Undertake programming and design of SCADA, PLC, RTU, HMI and other control systems.
- Progress standardisation of systems and design standards for electrical and control systems.
- Provide engineering support for in-field problem solving and fault finding, including root cause analysis with a focus on innovative, responsive solutions to improve operational effectiveness.
- Assist with development of electrical and control infrastructure asset management and maintenance plans, including identification of applicable equipment upgrades.
- Prioritise works to ensure the provision of high quality and timely electrical and control services operational support, analysis and advice to the Water Delivery teams.
- Provide exemplary safety leadership.
- Provide support to enable the development, implementation, commisioning and operational handover of capital projects.
- Contribute to development of effective and fit for purpose scheme infrastructure designs that meet regulatory, statutory, commercial, water delivery operational and funding requirements.
- Provide strategic and operational technical analysis and advice to support reporting to a range of internal and external stakeholders.
- 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.
- Advise on regulatory, statutory and code compliance across electrical and control system infrastructure, including development and upkeep of relevant technical support service strategies, design standards, policies, and procedures.
- Effectively manage day to day activities of minor 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.

Level of Accountability

Performance of the role must be undertaken with the highest of integrity, in accordance with TI's Delegations of Authority. This is a role with a high level of independence, receiving only general direction and leadership support as required, with minimal direction provided on a day-to-day basis. Guidance and advice are available from the Manager Operations & Assets and General Manager Chief Operations Officer as required.

All tasks must be completed within required timeframes, to a high standard, and in accordance with TI policies and procedures. Actively engaging in reflective practices and receiving feedback is required to promote continuous improvement and to lead individual professional development objectives. This role is accountable for the supervision and performance of direct reports.

Organisational Relationships

Reports to:	Manager Operations & Assets
Direct Reports:	SCADA Technician
Key Internal Relationships:	• Senior Leadership Team members • Water Delivery Team Leaders • Power Station, Electrical & Control Specialist • Electrical & Instrumentation Technician • Scheme Operators • Finance and Corporate services
External Relationships:	• Electrical regulators • Safety and Other compliance regulators • External contractors, service providers and suppliers of products • External consultants
Leadership Teams:	SLT.

Knowledge, Experience & Qualifications

- Experience in an operational & maintenance environment, including the development of asset management and maintenance plans.
- Demonstrated PLC, RTU, HMI and SCADA design and programming skills.
- Understanding of water management systems, assets and modelling.
- Experience in problem analysis processes such as RCA, 5 why's etc.
- Schneider & Kingfisher product experience.
- Experience working in-field to fault find, problem solve and deliver superior technical solutions to asset related issues.
- 5 years' minimum experience in a similar role.

Respectful and Safe Workplace

Employees are expected to contribute to a workplace culture that is safe, respectful, and inclusive. This involves modelling behaviours that reflect TI's values, complying with and promoting safety procedures, and taking shared responsibility for identifying and managing risks to health, safety, and wellbeing, including psychosocial hazards. Employees are to encourage open communication, treat mistakes and near misses as opportunities for improvement, and support mental health and wellbeing initiatives.

Equally, employees must foster a respectful environment by demonstrating professional conduct, valuing diversity of thought, and ensuring interactions are free from bullying, harassment, discrimination, sexual harassment, sex-based harassment, victimisation, or occupational violence. All employees are required to take appropriate action to uphold TI's zero-tolerance approach to behaviours that compromise a safe and respectful workplace.

In accordance with its Recruitment Policy, Tasmanian Irrigation is committed to selection procedures based on merit, qualifications, experience and which are aligned to the key selection criteria of the role. As such, applications for this role should address the Key Selection Criteria below in order to demonstrate their ability to fulfil the key duties and responsibilities outlined.

Key Selection Criteria:

- Demonstrated expertise or capability with substantial experience across provision of:
    - SCADA and electrical engineering, design and programming,
    - Operational optimisations,
    - Project development and delivery with direct budgetary and cost control responsibility,
    - Problem solving & fault finding.
- Demonstrated expertise or capability to deliver high quality services whilst standardising, simplifying and optimising processes with a customer centric focus.
- Demonstrated high level conceptual and problem-solving skills, including the ability to analyse evidence, interrogate data and provide strategic advice and solutions.
- Experience in managing provision of services using a combination of in and outsourced providers.
- 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.
- Commitment to safety and wellbeing of self and others.
- Relevant engineering or technical qualification.