

Position Title:	Engineer (Operations)
Reports To:	Manager, Engineering & Asset Intelligence
Location:	Launceston (with statewide operational travel)
Instrument:	Water Industry Award
Award Classification:	Level 8/9
Employment Basis:	Permanent, 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

The Operations Systems Engineer provides engineering expertise to support the safe, reliable and efficient operation of Tasmanian Irrigation's existing water delivery infrastructure. Distinct from project-focused engineering roles, this position is embedded within the Operations function and is focused on optimising system performance, resolving operational challenges and supporting asset reliability in a live operating environment.

Working across pipelines, pump stations and SCADA-controlled systems, the role applies engineering judgement, hydraulic analysis and data interrogation to inform operational decision-making. The position also contributes to incident response, system optimisation and continuous improvement initiatives, while acting as a key engineering interface between Operations, Asset Intelligence and Water Security functions.

Key Responsibilities

Operational Engineering & Asset Support

- Provide engineering support to the operation of pipelines, pump stations and associated water delivery infrastructure.
- Investigate asset performance, reliability issues and system constraints, and support resolution of operational challenges.
- Contribute to asset condition assessments, operational risk reviews and identification of improvement opportunities.
- Assist in scoping, prioritising and developing operational improvement, renewal and augmentation works, including technical documentation and preliminary design input.
- Support third-party interactions with infrastructure to ensure compliance with operational and engineering requirements.

SCADA & System Analysis

- Interrogate SCADA systems and operational data to diagnose faults, alarms and abnormal operating conditions.
- Interpret control logic and system behaviour to support troubleshooting and optimisation of system performance.
- Contribute to root cause analysis of incidents and near misses, using data-driven insights to inform outcomes.

Water Systems & Operational Support

- Apply hydraulic analysis and engineering judgement to support operational decision-making across water delivery systems.
- Provide engineering input into system performance, water delivery efficiency and operational planning.
- Support the development and refinement of operational procedures and system optimisation strategies.

Incident Management & Emergency Response

- Provide engineering input into incident investigations, impact assessments and corrective actions.
- Participate in emergency response activities, including out-of-hours support where required.

Project Management & Delivery Support

- Manage small to medium operational engineering projects, including scope, scheduling, contractor coordination and budget oversight.
- Work collaboratively with internal stakeholders to deliver engineering outcomes aligned with operational priorities.

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 generally supervised role that may operate with some independence, where some discretion in task execution is enabled, however guidance is available for non-routine issues. Guidance and advice are available from the Manager Engineering & Asset Intelligence 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.

Organisational Relationships

Reports to:	Manager, Engineering & Asset Intelligence
Direct Reports:	Nil
Key Internal Relationships:	GM Customer and Operations, Manager Water Delivery & Asset Performance, Manager Dam Safety, Environment & Water Security, Customer Operations and Water Delivery Teams and Asset Intelligence and Engineering Services staff.
External Relationships:	Contractors and service providers, Emergency management agencies (as required), Consultants and specialist advisors.
Leadership Teams:	SLT, CEO and Board of Directors

Knowledge, Experience & Qualifications

Essential:

- Degree in Engineering consistent with eligibility for membership of Engineers Australia.
- Demonstrated experience in water infrastructure engineering, including dams, pipelines, pump stations or similar systems.
- Strong understanding of fluid dynamics and hydraulic behaviour, with experience in hydraulic modelling.
- Experience working with or interrogating SCADA-controlled systems, including fault finding and operational problem solving.
- Demonstrated ability to project manage engineering tasks in an operational environment.
- Well-developed analytical, communication and stakeholder engagement skills.

Desired:

- Experience supporting dam safety activities or working within regulated dam environments.
- Experience in operational incident management or emergency response environments.
- Familiarity with water industry operational standards and regulatory frameworks.

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:

- 1. Engineering Expertise** - Demonstrated experience in civil, mechanical or hydraulic engineering within water infrastructure, utilities or a similar operational environment.
- 2. Operational Problem Solving** - Proven ability to diagnose and resolve complex operational issues, including asset performance, system constraints and reliability challenges.
- 3. SCADA & Data Interpretation** - Experience in interrogating SCADA or similar control systems, with the ability to interpret operational data, trends and control logic to inform decision-making.
- 4. Hydraulic & Systems Understanding** - Sound understanding of hydraulic principles and their application to water delivery systems and operational performance.
- 5. Project Management Capability** - Demonstrated ability to manage engineering projects from scoping through to delivery, including contractor coordination and budget oversight.
- 6. Stakeholder Collaboration & Communication** - Strong interpersonal skills with the ability to work effectively across multidisciplinary teams and communicate technical information clearly to operational and non-technical stakeholders.