

# POSITION DESCRIPTION

Position details			
<b>Position</b>	Senior Hydraulic Engineer	<b>Group</b>	Asset Delivery
<b>Reports to</b>	Asset Strategy & Performance Manager	<b>Location</b>	Griffith
<b>Leadership Level</b>	Front Line Leader	<b>Review date</b>	30 June 2021
<b>Direct Reports:</b>	-	<b>Employment type</b>	Full time Permanent
<b>Indirect reports</b>	-	<b>Approved by</b>	General Manager – Asset & Delivery

Purpose of the role
<ul style="list-style-type: none"> <li>To develop and support MI's understanding of the hydrological performance of its irrigation network supported by accurate data and using best scientific practices that enables demonstrable improvements in system efficiency.</li> <li>Contribute to the effective lifecycle management of MI's infrastructure covering the planning, design, construction and renewal of MI infrastructure assets.</li> </ul>

Snapshot
<ul style="list-style-type: none"> <li>At Murrumbidgee Irrigation, our job is delivering water in the best way possible.</li> <li>Asset Delivery is responsible for developing and implementing MI's Asset Strategy which involves managing asset performance in the short and long term to deliver MI's current and future infrastructure requirements.</li> <li>The Senior Hydraulic Engineer is responsible for supporting the team of engineers and supporting core analysis and monitoring tools that describe the hydrological processes in the MI delivery system.</li> </ul>

Major Accountabilities	Outcomes
<b>Safety</b>	
Drive and support the evolution of a safety-focused culture within MI by ensuring effective, best-practise equipment, systems and procedures are in place and consistently followed, and by promoting and reinforcing a strong safety focus	Continuously improve workplace safety, consistently employ best-practice WHS methods, and achieve MI's safety targets
Act in incidents and emergencies in accordance with procedures and safety/due diligence	Improved outcomes from incidences and reduced occurrences
<b>Leadership</b>	
Role model the MI values of Integrity, Customers, Accountability, Respect and Teams and associated behaviours, and inspire and enable others to do the same	Contribute to the development of a performance-enabling, values-driven culture across the organisation
Provide supervision, direction and technical or professional expertise to operational teams, projects, and others when required	Produce high standards of work Build technicians' skills and knowledge

	Ensure work is carried out safely and in accordance with company policies and industry regulations
Coach, mentor and share knowledge and expertise to support the development of colleagues and junior staff	Build individual, team and organisational capability
<b>Planning</b>	
Undertake structured planning and continuous review to efficiently manage and allocate team resources including budget	Maximise value from expenditure and deliver projects and other business objectives to agreed timeframes, budget and quality
Identify opportunities for innovative change and improvement to processes	Measurable improvements to productivity and/or cost reduction
Identify potential risks to delivering team and business objectives, and develop contingency and succession plans	Business objectives achieved by the team in an environment of ongoing change
<b>Hydraulic Engineering</b>	
Review and produce approved designs produced internally and externally for hydraulic structures, pipelines as per Australian Standards	To sign-off engineering designs as per Australian Standards
Review and endorse Engineering Memo's for New Works Application for approval when required	Ensure work is carried out safely and in accordance with company policies and procedures
Deliver DE (Delivery Entitlement) calculations, conduct investigations based on DE governance Framework	Produce high level DE reports, memorandums and provide technical expert advice to the business.
Deliver models of the hydrological processes that underpin the operation and management of the MI Delivery Network, including models used to determine Delivery Entitlement, Hydraulic Structures and Delivery Performance.	Quantitative understanding of the factors that impact the Delivery Network, including Delivery Entitlement, specification of new and upgraded hydraulic structures and delivery performance.
Investigate and report on the performance of irrigation assets including risk and condition assessment.	Initiate asset condition assessment inspection and report.
<b>Teamwork</b>	
Engage and liaise with other teams in gaining support and commitment towards achieving corporate goals	Contribution to MI's one team objective
Train others in the use of the HECRAS and other hydrological system, manuals and other documentation	Achievement of agreed team goals and outcomes
Initiate and undertake continual professional development through active participation in the performance and development process	Achievement of strategic and business objectives
Create and maintain company records in accordance with company policy and procedures	Achievement of agreed team goals and outcomes

## Skills and Experience

**Essential:**

- Tertiary qualifications in Civil Engineering or Science.
- 7-10 years of engineering experience.
- Knowledge and experience with hydrological modelling systems such as HEC-RAS or Mike11
- Demonstrable ability to perform advanced data analytics, mathematics, computer programming, complex fault finding/investigations and implementing R&D plans
- A high level of initiative, the ability to think laterally and work autonomously as required
- Ability to foster a positive and productive relationship with internal and external stakeholders.
- Demonstrated and proactive Health and Safety Leadership and a personal commitment to Health and Safety procedures, policies and plans.
- Current 'C' class motor vehicle licence

**Desirable:**

- Knowledge of water industry regulations and legislation.
- Demonstrable experience with Rubicon platform and products.

Decisions expected	Decisions referred/recommended
Scheduling of daily workload in line with agreed priorities	Recommend changes to priorities to improve customer and business outcomes
Performance enablement, underperformance management, and development initiatives for team members	Disciplinary action for serious misconduct
Prioritisation of Asset Strategy and Performance Initiatives in line with resource availabilities	Recommend new initiatives to improve asset performance

**Key relationships**

Manager	Receive direction; provide information and updates on current work
Asset Strategy and Performance Team	Active participation in all team activities and provide guidance and support as required.
Other MI Business Unit Managers	Ensure company objectives are prioritised across the business

**Other information**

- From time to time this position may be reassigned to other tasks, teams, special projects, etc. within skill level, competency and experience, to meet short-term operational needs.