



CERTIFIED | EXPERIENCED | ENGINEERING

POSITION DESCRIPTION

Position title:
RPEQ Mechanical Engineer

Reports to:
Manager - Structural, Mechanical & Piping

Employment type:
Full-time

CIVIL ⚙️ STRUCTURAL ⚙️ MECHANICAL ⚙️ ELECTRICAL ⚙️ DESIGN + DRAFTING ⚙️ CONTROL SYSTEMS ⚙️ OPERATIONAL SUPPORT

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POSITION DESCRIPTION

POSITION TITLE:	REPORTS TO:
RPEQ MECHANICAL ENGINEER	MECHANICAL ENGINEERING TEAM LEAD
	Or such other person/s as the company may nominate from time to time.

POSITION SUMMARY

Your role is essential to Waterline’s purpose of partnering with Australian industry to provide safe and sustainable resources to the world. You will use your technical engineering understanding and practical experience to make our Industry Partners more efficient, safe, and productive. You will work across the full asset lifecycle including studies, design, project execution, commissioning, operations, and decommissioning. Using your technical and practical knowledge, you will strive to ensure quality and purpose in all deliverables.

Your previous experience working within mining and mineral processing operations, will have provided you a broad understanding of how these companies create value through their assets. You will have worked with pumps, piping, pipelines, processing plant equipment, or other infrastructure and formed a view of what good looks like with regards to design and maintenance of this equipment.

As an experienced mechanical engineer with deep experience in the mining and mineral processing industry you will support the mechanical engineering team across a broad range of technical challenges.

POSITION DETAILS	Description of duties and responsibilities
ENGINEERING	- Effectively solve client problems, and apply technical expertise in: - Pumps and pump station design. - Pipeline design. - Process piping design. - Process equipment. - Materials handling equipment. - Provide advanced solutions for pumping systems, including long pipelines and slurries. - Remain up-to-date, and ensure compliance, to evolving industry, international and Australian Standards. - Identify when technical analysis methods and engineering software can be applied to solve our clients’ problems. - Apply learnings from a broad range of experienced situations to client problems. - Complete engineering services to allocated budgets and timeframes. - Complete project-related activities, including cost estimation, scope development, schedule development, and liaison with engineers and project managers to help manage clients during project delivery.

	• Be involved in small project-based teams of engineering professionals to ensure delivery of effective and commercially valuable mechanical engineering solutions, to deliver 'Value Driven Projects'. • Effectively communicate your design decisions to Waterline internal stakeholders and clients. • Assist in the development of inhouse engineering design aids/tools, standards, specifications and design criteria. • Occasionally visit client's sites to support Waterline Engineering compliance audits, delivery, and commissioning. • Support team members to develop their engineering technical abilities, including reviewing work and providing feedback to ensure a robust service is delivered. • Provide advice across the business relevant to your professional area.
PROJECT DELIVERY	• Drive project outcomes from the study phase to construction and commissioning. • Ensure deliverables align with client requirements and expectations. • Maintain a pragmatic and results-oriented approach to problem-solving. • Effectively communicate design decisions to internal and external stakeholders.
BUSINESS DEVELOPMENT	• Be a champion of the Waterline Purpose, Values and Brand. • Mentor and assist with the training/development Waterline team members. • Attending client meetings to understand their needs and develop project scopes that create mutual value. • Maintain relationships with existing clients by delivering excellent service. • Meet with clients to determine project scope requirements and track project progress, to realise true project benefits. • Maintain existing client relationships and contact. • Occasionally visit sites to build relationships and identify potential leads. • Maintain industry awareness to assist with Waterline's growth.
REPORTING	• Accurately track individual time, billables, goals and prioritisation daily using company provided tools. • Participate in continuous improvement initiatives. • Provide project closeout and post implementation review reports.

	• Provide regular updates to Team Lead.
As well as any other tasks or duties for which you may have the skill, knowledge and/or training that is required of you from time to time.	

QUALIFICATION/S AND EXPERIENCE	
ESSENTIAL QUALIFICATION/S • BACHELOR OF ENGINEERING (MECHANICAL) • RPEQ DESIRABLE QUALIFICATION/S • CPENG	Essential Experience • 15+ Years of relevant experience in Mechanical Engineering. • Demonstrated project engineering or project management skills including design work with multi-discipline teams. • Technical ability to manage and coordinate multiple stakeholders. • Exposure to Australian Industry with a focus on mining and mineral processing. Desirable Experience • Advanced piping design knowledge to AS 4041 and ASME B31.3 as applicable. • Knowledge of, or experience using, at least one of the following relevant software packages is an advantage: ○ Pipe Stress Analysis – Bentley AutoPipe (preferred), CAESAR II ○ Fluid & pumping modelling – AFT Fathom, Fluid Flow ○ Finite Element Analysis – Inventor NASTRAN, ANSYS, Strand7. • Exposure to oil & gas and chemicals industry. • Advanced pump system and slurry handling design knowledge including system analysis, equipment selection, and piping/pipeline design. • Experience performing pipeline transient analysis. • Experience with plant & processing equipment design and specification including tanks (API 650), pressure vessels (AS 1210, ASME BPVC), ancillary equipment, package plants, and plant layout. • EPCM background with experience working across study phase through to construction and commissioning.
ESSENTIAL COMPETENCIES (KNOWLEDGE, SKILLS & ATTRIBUTES)	
• Demonstrated project engineering or project management skills including strong self-discipline and time management skills. • Key stakeholder management utilising effective communication skills. • Ability to deliver results under pressure. • Willingness to learn about our clients' businesses and markets so you: ○ Understand our clients core business outcomes. ○ Understand how to present Waterline Projects to our clients in a relevant context. • Pragmatic approach to client problems.	

- Demonstrate effective organisation, planning and attention to detail.
- Excellent report writing and presentation skills.
- Effective problem-solving capabilities.
- Ability to interpret Standards, Legislation, Acts and Codes.
- Ability to work both collaboratively and independently.
- Appropriate handling of confidential information.

ESSENTIAL BEHAVIOURS

Your behaviour must be consistent with Waterline’s values.



BE WATERLINE PROUD



TAKE ACTION



EMBRACE OWNERSHIP



ARE ALWAYS CURIOUS



KEEP IT SIMPLE

KEY RELATIONSHIP WITH

INTERNAL: • Mechanical Team ○ Team Lead ○ Peers • Operational Support ○ Job Managers • Other discipline teams ○ On multi-discipline projects including E&IC and Structural teams • Strategic Growth	EXTERNAL: • Clients • Technical Specialists • Equipment Vendors
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