



HEAD OF MECHANICAL DESIGN

Permanent | Macassar, Cape Town

At Alveo Water, we design and deliver innovative, sustainable water and wastewater treatment solutions that solve real-world challenges across South Africa and beyond.

We are looking for an experienced Head of Mechanical Design to lead our mechanical engineering capability, ensuring that our designs are not only technically excellent, but practical, efficient, and aligned with our commitment to quality and sustainability.

This is a key leadership role for a hands-on engineering professional who can balance strategic thinking with day-to-day technical guidance, while building and mentoring a high-performing design team.

Role Overview

You will take ownership of the mechanical design function, leading a team of draughtsmen and engineers, setting design standards, and ensuring consistent, high-quality outputs across all projects.

You will play a critical role in bridging engineering, manufacturing, and project delivery, ensuring that designs translate seamlessly into real-world implementation.

Key Responsibilities

- Lead and manage the mechanical design and draughting team, ensuring quality, accuracy, and consistency
- Establish and enforce design standards, best practices, and CAD governance
- Review and approve all mechanical designs, drawings, and technical documentation
- Ensure designs are cost-effective, buildable, energy-efficient, and fit-for-purpose
- Provide technical leadership across the full project lifecycle
- Collaborate closely with project managers, procurement, and manufacturing teams
- Align design outputs with project timelines, budgets, and client expectations
- Identify and mitigate design risks while ensuring compliance with EHS and quality standards
- Drive continuous improvement, innovation, and value engineering
- Mentor and develop team members, fostering a culture of accountability and excellence

Minimum Requirements

- Degree in Mechanical Engineering
- Professional registration (advantageous)
- Proven experience in a senior mechanical design leadership role
- Strong experience in water or wastewater treatment
- Technical expertise in piping systems, pump stations, and plant design
- Experience managing draughting teams and design workflows
- Strong understanding of project delivery, cost control, and scheduling
- Proficiency in CAD software and project tools
- Strong leadership and communication skills

Why Join Alveo Water?

- Be part of a company solving critical water challenges
- Work on impactful infrastructure projects
- Influence engineering standards and innovation
- Join a collaborative, solutions-driven team

Package

Market-related, based on experience

📧 Apply: admin@alveowater.co.za