

## Position Description

# Design Engineer

**Position Title:** Design Engineer  
**Department:** Engineering  
**Location:** Moe  
**Reports to:** Head of Engineering

**Approved by:** Amir Modirzareh

**Employment Status:** Full time  
**Date:** March 2025

### Summary:

As a Design Engineer, you will design, modify, and improve products to meet customer needs, ensuring cost efficiency and manufacturability.

You will create accurate drawings and BOMs, collaborate with various teams to optimize designs, and provide technical support. Proficiency in 3D CAD design and You will also have opportunities to gain market insights through close collaboration with sales, service, and customers.

### Roles and Responsibilities:

- Design, modify, and improve standard and bespoke products to customer requirements, ensuring manufacturability and cost efficiency.
- Develop new products, track design changes, and document implementations.
- Create sales drawings, manufacturing drawings, and BOMs with accuracy.
- Collaborate with production, marketing, and sales to reduce costs, optimise designs, and enhance product functionality.



- Provide technical support to production, service, and installation teams, including troubleshooting, documentation, and quality control.
- Assist marketing and sales with custom design quotes, including customer liaison, specification determination, cost estimation, and proposal drawings.
- Identify and implement cost-saving and product improvement initiatives through value engineering and risk assessments (DFMEA).
- Apply best practices in 3D CAD design, utilising parametric modelling for efficiency.
- Adhere to engineering KPIs and promote a "one team, one goal" mindset to maximise customer value.
- Gain market insights by working closely with sales, service, and customers, including participation in site visits and installations.
- Willing to travel as required, including occasional interstate trips.
- Conduct classic engineering calculations and FE analysis to ensure design integrity.
- Design hydraulic and pneumatic systems as required.
- Ensure appropriate application of Australian standards.
- Perform factory acceptance testing and develop test procedures as needed.
- Collaborate with purchasing, manufacturing, QA, sales, and service teams to provide comprehensive support for the wider team.
- Work closely with the electrical design and software teams to ensure proper integration of electrical equipment.
- Other duties as assigned.



## Skills, Education & Experience:

- Minimum 3 years' experience in a related field.
- Mechanical or Mechatronics Engineering qualification from a reputable organisation.
- Proficiency in Autodesk Inventor.
- Experience with Vault PDM.
- General knowledge of Australian Standards.
- Experience with structural calculations for mechanical equipment is highly favourable.
- FEA experience using Nastran or Strand7 is favourable.

## Occupational Health & Safety:

- Compliance to the OHS legislation and requirements of SAFETECH policy.
- Prompt notification and official reporting to site and SAFETECH business management of all injury and near miss incidents.
- Take all steps to prevent injury to yourself and others.

## Policies & Procedures:

- Compliance to all policies and procedures of Safetech.
- Compliance to the OHS legislation and requirements of Safetech policy.
- Work in the interests of Safetech at all times.

## Acknowledgement

This job description has been designed to indicate the general nature and level of work for this role. It is not designed to contain or be interpreted as a comprehensive list of all duties, responsibilities and qualifications required in this role and as such additional duties may be assigned as required.

