

Role: Mechanical Design Engineer



Location: Totton, Southampton SO40

Salary: Competitive - enquire for details

Contract: Full-Time, Permanent

Role Overview

As a Mechanical Design Engineer, you will play a pivotal role in product development and enhancement, collaborating closely with the Head of Design to bring innovative solutions to market. Your responsibilities will span the entire project lifecycle, from conceptualisation to final drafting, focusing on engineering calculations and the application of Solidworks FE analysis. Working in our Totton office, you will work closely with the Head of Design and with the other designers in the team offering high quality design and drafting for various projects.

Key Responsibilities

- Collaborate with the Head of Design to develop new products and expand the size range of existing products.
- Lead existing and new projects, overseeing the entire project lifecycle, from concept to final drafting.
- Own the design and delivery of mechanical components and assemblies from concept through to manufacture
- Produce high-quality 3D CAD models and fully defined 2D engineering drawings
- Apply appropriate GD&T and tolerancing strategies to ensure manufacturability and reliable assembly
- Carry out hand calculations and/or FEA where needed to support design decisions
- Engage directly with the production floor to ensure designs are buildable and efficient, responding to DFM feedback in real time
- Support prototype builds, testing activities

Key Expectations

- Design for Manufacture – Understand how parts are made and ensure designs reflect real-world constraints
- Rapid Iteration – Work efficiently through design–review–refine cycles with minimal overhead
- Ownership – Take responsibility for your designs from concept
- Collaborative Engineering – Work closely with others in a small team environment
- Adaptability – Manage multiple priorities across both planned and reactive engineering work

Person Specification	Essential	Desirable
Education / Qualifications and Training	Bachelor's degree in Mechanical Engineering or a related field	
Experience	Typically 3–5+ years' experience in a high-performance engineering environment. Experience in technical Design & Engineering. Autosport, Aerospace and Marine experience are all considered.	
Skills, Knowledge and abilities	<ul style="list-style-type: none"> ● Strong capability in 3D CAD modelling and 2D drawing creation. ● Excellent understanding of GD&T, tolerancing, and mechanical assembly design ● Excellent attention to detail to ensure accuracy in design and drafting. ● Comfortable working across the design lifecycle from concept through to manufacture ● Able to work independently while contributing effectively within a small team ● Comfortable working in a fast-paced environment with shifting priorities 	Good material properties knowledge, with composite design experience being advantageous but not necessary.

This job description is not exhaustive but is intended as a guide to the principal duties and responsibilities of the post. Post holders may be asked to undertake other duties and responsibilities commensurate with the grade of the post. It will be subject to periodic review within the scope and general level of responsibility attached to the post.

Rigging Projects

Our mission is to be the **world leader in bespoke engineered solutions, built on sound design, research and development, and manufacturing excellence**. As a result, our fast-paced, friendly culture thrives on constant innovation and integrity, as we continue to build a company we are all proud to be part of.

We hire top talent and pride ourselves on our people, because we believe it is the people who make a company successful. We are committed to career growth and have an internal culture of progression. Our employees are supported with opportunities for learning, development and promotion, alongside regular appraisals and check-ins with line managers.

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