

# Role: Mechanical Design Engineer



**Location:** Totton, Southampton SO40

**Salary:** Competitive - enquire for details

**Contract:** Full-Time, Permanent

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## Role Overview

As a Mechanical Design Engineer, you will work in a very dynamic design office focusing on state of the art deck hardware and 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. You will work alongside our experienced design team, whose backgrounds include Formula One, the electric sports car industry and the marine sector, where they have contributed to the design of systems for prestigious racing teams and superyachts. This is a real opportunity to take total ownership of innovative sailing yacht deck hardware systems from concept to final yacht installation.

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

We encourage team members to strengthen their connections with colleagues through regular social events, including whole-company team building days, summer BBQs and internal department socials.

At Rigging Projects, we are a family, and we believe that a supportive, inclusive working environment is essential. Together, we aim to create a workplace where people can grow, feel connected, and take pride in what we achieve as a team.

Check out our [social media](#) to see more of what we do.

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Apply by emailing [info@riggingprojects.com](mailto:info@riggingprojects.com)

