
Mechanical Design Engineer - High Performance Sports

Location: Brackley, Northamptonshire
Contract: Permanent
Report to: Senior Engineer
Salary: negotiable dependent on experience

KW Special Projects Ltd requires a mechanical design engineer to join the engineering team in this ambitious and growing high performance engineering business. The role will work primarily across Olympic and Paralympic sports in partnership with the EIS. We are looking for someone with a “can do” attitude and strong lateral thinking skills with a keen interest in high performance sport engineering. We want someone who is excited by the engineering process and can apply their skills to a variety of diverse projects using their initiative and knowledge.

About KWSP

KWSP operates within the high performance engineering sector – designing, manufacturing and supplying complete solutions.

Evolved out of its sister company KW Motorsport, KWSP provides services to meet the rapid growth in demand for a non-conventional approach to the integration of new processes and technologies into high performance engineering and manufacturing.

Guided by the principles of motorsport, the need for speed, efficiency and precision through the use of technology, materials and processes, KWSP takes a disruptive approach to a clients’ creative ideas - facilitating the transfer of knowledge from one sector to another. We work in many sectors including high performance sports engineering, automotive, motorsport and aerospace.

Our capabilities include

- High Performance Engineering (including Performance Sports Engineering)
- Digital Fabrication
- Additive Manufacturing
- Automation
- Lightweight structures and composites
- Industrial Inkjet
- High Performance Engineering project management
- Special purpose machine design and manufacture

About the role

Reporting to the Senior Engineer you will work independently on small projects or as part of a team on our larger projects. We do a wide range of work at KWSP and whilst your prime role will be to work on high performance sports engineering projects you may be exposed to other areas of our business as part of a larger team.

Whilst the role will use your exceptional engineering skills you will also need to have an appreciation of your impact on the business as a whole. You will be communicating with clients at all levels. As a result you will also need to demonstrate effective communication skills. In addition you will be required to be hands on with the manufacturing, assembly and testing process.

The role would appeal to someone who wants to experience a wide range of engineering design projects, who works best when they need to think creatively about a design solution, and is able to work independently.

Specifically the role will involve;

Design:

- Use of CAD Solidworks
- Developing concepts schemes
- Writing design specifications
- Working with design specifications to meet budget requirements in terms of time and costs.
- Preparing detailed design models and drawings
- Creating and managing Bills of Materials
- Procurement and working with suppliers

Assembly and Development:

- Complete simple assembly work independently
- Aiding in the assembly process for larger projects
- Work with project engineers and other members of the team (if relevant) to commission the project
- Develop the system to meet customer specification
- Develop and perform validation as necessary.

Acceptance Tests and Installation

As part of a smaller team, in certain circumstances tasks could include

- Managing and performing site installation and testing work

- Undertaking any required remedial work
- Fault finding and resolution

Managing Customer Relationships

Communicating with customers effectively at all levels in relation to;

- Preparing Specifications
- Design reviews
- Project reviews

Project co-ordination / management:

- Control own work to time and work within budgetary requirements / constraints
- Manage others as required
- Plan and estimate work and budgets

Opportunities for Career Development

KWSP is a small but growing business. For someone with the right “can do” attitude, technical skill and initiative there may be future opportunities within the business

Person Specification: Core competencies and experience.

Applicants will preferably have a degree in mechanical engineering or a related discipline. We will however consider applicants with an HND in mechanical engineering or a related discipline. We will also consider individuals with equivalent experience/combined education such as completion of an Apprenticeship or progression from a hands on role. An additional qualification in Sports Science would be an advantage.

- All applicants are required to have;
 - Proven and skilled use of CAD Solidworks
 - Evidence of client-facing experience
 - Exceptional written and verbal communication skills
 - Ability to prepare specifications and deliver these within budget
 - Confident use of MS-Office applications
 - Experience in drawing office procedures
 - Experience or awareness and appreciation of FEA, CFD and simulation techniques
 - Knowledge of normal DO procedures and sign off processes
 - Practical hands-on assembly experience
 - Ideally have or be working towards Chartered status or would like to do so
- The successful applicant will be;

- self-motivated,
- keen to work on high performance sports projects
- a problem solver/have strong lateral thinking skills
- able to demonstrate a commitment to quality and meeting customer requirements
- able to show initiative,
- tenacious in meeting deadlines
- Practical as well as creative and prepared to be hands on
- able to demonstrate precision and attention to detail including good record-keeping.
- able to work effectively under time pressure
- flexible
- able to demonstrate the competencies required of a Chartered Engineer or Incorporated Engineer described with ECUK standards for professional engineering
- able to work with health and safety in mind in terms of design and working procedures

This role is suited to someone with career experience

The role may require you to work out of main office hours or to travel around the UK or abroad and spend periods of time with our customers off site.

Whilst every effort has been made to explain the main duties and responsibilities of the post, each individual task undertaken may not be identified.

Employees will be expected to comply with any reasonable request from a manager to undertake work of a similar level that is not specified in this job description.

To apply for this role please send a CV and covering letter to info@kwspecialprojects.com. In your covering letter please **provide examples to demonstrate you have the competencies, skills and experiences referred to in the Person Specification section.** If you have any questions about this role please call Sophie Kilmister on 01280 704768.

KWSP is an equal opportunities employer

The initial deadline for applications to be received is 23rd January 2015 with interviews to be held during February.