



## **Mechanical Design Engineer – Electric Vehicle Charging Equipment**

Duku are a vibrant, well-established product design consultancy located in Cheltenham, Gloucestershire who specialise in the design and development of EV charging infrastructure. We work on a range of exciting projects that require a multidisciplinary design team to work collaboratively on all aspects of product development including:

- Design specification and sourcing
- Mechanical design engineering
- Electrical and electronic engineering
- Software development
- CAD development, prototyping & design for manufacture
- Product testing & certification

We are offering an excellent opportunity for an experienced Mechanical Design Engineer to join our team to assist in the design and development of innovative electric vehicle charging equipment for public sector, commercial and domestic clients across the UK.

This is an exciting time to join a growing design consultancy with a specialist EV team working on products in a high growth industry and play a direct role in the design and execution of a range of innovative EV charging solutions. In addition, the role provides an excellent opportunity to work on a broad range of other projects including consumer products, mobility, health and fitness and medical devices.

We are seeking a confident and personable engineer who has exceptional mechanical engineering experience, including design for manufacturing, cost and assembly and production tooling development with a proven track record of delivering world-class products in cross-functional teams. Your responsibilities will focus on the mechanical design, manufacturability, cost effectiveness, and design for quality of new products. You will enjoy engineering a solution to a problem and demonstrate the ability to think outside the box when approaching design problems.

### **Responsibilities**

- Design and develop innovative mechanical design solutions
- Developing designs from conception to mass production.
- Liaising with UK and Far East manufacturing suppliers to efficiently execute designs into mass production.
- Identifying design opportunities for quality, cost, assembly, and manufacturing.
- Production tooling development and monitoring into production.
- Development and testing of proof of concept prototypes.
- Working with suppliers and subcontractors.
- Supporting scoping and writing project plans.

- Liaising with project lead and design team to ensure efficient deadline and milestone management.

### **Requirements**

- Bachelor degree (minimum 2:1) in Mechanical Engineering or related field.
- Minimum 5 years of industry experience in a Mechanical Engineering role.
- Multiple examples of leading projects into production.
- Strong knowledge of mechanical systems including motors and gearing.
- Strong working knowledge of mass production processes including injection moulding, CNC machining and sheet metal.
- Hands on experience of building proof of concept prototypes to test ideas.
- Ability to review and optimize 3D models and 2D drawings, including understanding tolerances of various manufacturing methods.
- Proficient in CAD (Solidworks)
- Ability to learn quickly and operate outside of your comfort zone.
- A self-starter who is comfortable driving multiple aspects of the product design process simultaneously and able to research and propose solutions to problems.
- Strong communication, planning, and task management skills.
- Ability to lead and manage multiple design team resources to deliver a successful conclusion.
- Excellent computer and literacy skills including Word and Excel.
- Experience in workshop skills such as basic fabrication and assembly.
- Excellent attention to detail.
- A passion for design and mechanical engineering

### **Beneficial**

- Experience of ruggedized outdoor electro-mechanical products (IP & IK protection).
- Experience in the design of electric vehicle charging equipment or a related area.
- Experience of electrical engineering.
- Cooling system and thermal solution design.
- Experience in product testing, designing for standards and certification processes.
- Material selection for functional and regulatory requirements.
- Experience with FEA and ability to perform stress/strain analysis.

### **Benefits**

- Salary depending on experience.
- Parking available.
- Workplace pension scheme
- Annual performance reviews and progression opportunities.