product engineer.

first hire - job description.

Key details

Type of employment: Contract (part-time or full-time)
Duration: 4 - 6+ months
Location: Battersea, London
Start Date: March - April 2026

Company description

Coblum is a London based Start-up developing an automated CPR device designed to enable any bystanders to respond effectively to sudden cardiac arrest. Over 80% of cardiac arrests occur outside hospital, where professional help rarely arrives in time. Bystanders are the first line of defence, yet most lack the training, confidence and stamina to perform CPR effectively.

While significant progress has been made in developing smaller and lighter defibrillators (AEDs), these remain only a partial solution - still relying on untrained bystanders to perform exhausting manual CPR.

Coblum bridges this gap - designed for intuitive bystander use, it removes the barriers that prevent people from delivering effective care until professionals arrive. It requires no training or physical effort, making life-saving action truly accessible to everyone.

Position summary

As a Product Engineer, you will play a central role in the hands-on development, testing, and optimisation of Coblum's core technology. Reporting directly to the CEO, you will work across the mechanical, electrical, and embedded aspects of the system to ensure that the product meets its performance, safety, and usability requirements.

You will collaborate closely with the regulatory and clinical stakeholders to ensure that performance requirements are clearly defined, tested, validated, and documented throughout the entire product development lifecycle — from early prototypes to user interaction testing and pre-market readiness.

This role is ideal for a rigorous, organised, and curious maker who enjoys building, testing, iterating, and documenting real hardware product development. The position offers strong growth potential and may lead to a permanent role as the company scales.

Main responsibilities

Your objective:
Develop a robust, reliable, and test-ready prototype that meets defined performance requirements and is suitable for user interaction and validation testing.

You will:

- Analyse, identify & document key limitations and failure modes of the current prototype
- Design and develop new mechanisms and assemblies
- Improve and optimise electrical circuits and system architecture
- Select, source, and optimise key components (motors, gear systems, electronics, sensors)
- Develop test rigs and experimental setups to validate performance requirements
- Plan and execute performance, reliability, and durability testing
- Work closely with the regulatory team to align testing and documentation with market requirements
- Maintain clear, structured documentation of design decisions, test results, and iterations throughout development

Who we are looking for

- Master's degree in Mechatronics Engineering or a related discipline
- Experience working with gear systems, motors, and embedded systems
- Good understanding of product development in regulated environments (MedTech experience is a strong plus)
- Strong analytical and creative problem-solving skills
- Proficiency with CAD software (Fusion 360 preferred)
- Hands-on experience in electronics design and prototyping
- Experience with microcontrollers PCB design, component selection, and sourcing
- Experience in design for manufacture is a strong plus
- Ability to clearly communicate technical concepts to both technical and non-technical audience
- Demonstrated ability to produce clear, structured, and traceable documentation aligned with design control.
- Self-motivated, proactive, detail-oriented, and able to take ownership of tasks from concept to completion
- Comfortable working in a fast-paced, early-stage startup and collaborating within a multidisciplinary environment

Compensation & benefits

- Opportunity to take full ownership of a significant part of the R&D development, with real technical autonomy and responsibility from concept to validation.
- Direct contribution to shaping the product vision of a high-impact, life-saving technology with the potential to transform emergency response outcomes.
- Flexible working hours
- Access to a lab and fully equipped workstation, including computer-aided manufacturing tools
- Competitive salary and potential equity

Submit your application

To apply, please upload your CV and cover letter via our Application form.
Looking forward to hearing from you !