



PDD is a design and innovation consultancy creating physical and digital products and experiences that drive our client businesses and delight their customers and users. We have been winning awards and serving our long-standing clients since 1980.

With studios in London, Hong Kong, Shanghai and Boston, and working in 6 continents, our experienced managers and talented researchers, designers and engineers help companies in the Medical & Healthcare, Consumer and Industrial & Commercial sectors to grow their businesses through innovation.

We ensure that product and experience solutions are successful by ensuring they are appealing to customers, are feasible and viable for clients to make and are responsible given regulation, society and the environment. Such success creates our future- and it's this sustainable 'win-all-round' business model that excites us- we call it 'Meaningful Innovation'.

We are committed to a workplace environment that promotes diversity across all our studios and this applies to the talent we hire, the customers we work with and the people we interact with on our projects.

We offer competitive pay, a range of excellent benefits and opportunities for international travel. Working with us also opens up new networking opportunities and a chance to engage with colleagues at social events.

Role:

Consultant - Engineering Design (Healthcare focus)

Location:

Shanghai

Reporting line:

Principal

Purpose:

Leveraging your creativity, expertise and enthusiasm for design and engineering, you will collaborate with our team to develop technically challenging and innovative products from early ideas to production.

You will have a mind for engineering science and mechanics, an appreciation of product design, confidence in your CAD skills and a good understanding of manufacture and materials.

Working in industry or consultancy, you will already be familiar managing projects, and after training and with support from senior staff, you will manage PDD projects, taking responsibility for commercial success alongside the quality of technical design.

In these you will be responsible for the design quality and the management of resources, budgets and time to meet the needs of clients.

Responsibilities:

- Create inventive, appropriate and practical technical concepts and assess feasibility
- Research, source and specify applicable technologies, suppliers, materials and processes
- Develop concepts into reliable and robust solutions; including 3D CAD modelling, math models and FEA/CFD, risk analysis and managing prototypes for testing
- Detail and specify design for manufacture; including engineering drawings, tolerances and specifications
- Create and control documents including presentations, reports and schedules
- Communicate and present work to clients
- Operate within the PDD quality system and wider regulatory framework
- Interpret briefs, prepare proposals, plans and requirements specifications
- Manage project time and cost, lead and co-ordinate the team and liaise with clients and subcontractors

Requirements:

We're looking for a talented and dynamic Engineer with the technical, communication and management qualities to ensure innovative solutions, successful projects and ongoing client relations.

Minimum requirements include:

- 1st or 2:1 Master's Degree in Mechanical or Aerospace Engineering or equivalent
- Healthcare industry experience
- Projects with significant quality & regulatory requirements eg medical devices, ISO13485 knowledge is a must
- Proficient in 3D CAD modelling (Solidworks or CREO)
- Familiar with materials and processes including moulding, casting, machining and fabrication
- Ability to conduct Engineering Analysis (FEA/CFD) and tolerance calculations
- Excellent written and verbal presentation skills
- Some experience of managing projects and the work of others.

Ideally you also have experience in the following areas:

- Structural, mechanism and fluid technology
- System level design including electronics and software integration