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Senior Consultant - Product Design Engineering

Reports to: Principal - level

Location: London

Summary

Leveraging your creativity, expertise and enthusiasm for innovation, product design and engineering design, you will work with our teams to develop demanding products from research to production.

You will be confident in balancing usability and aesthetic appeal with technical functionality. You will have a good understanding of mechanics, materials and manufacturability. You will have excellent CAD skills and be familiar with drawings and specifications. Working in industry or consultancy, you might have already managed projects. You will manage PDD projects after training and with support from senior staff, taking responsibility for the technical product design and the project success.

Key Responsibilities

- Interpret briefs, determine requirements, prepare proposals, plans and cost schedules.
- Research, source and specify applicable technologies, suppliers, materials and processes.
- Create inventive, appropriate and practical technical concepts and assess feasibility.
- Balance the inputs from human sciences, industrial design and mechanical engineers to deliver appropriate and meaningful designs.
- Develop designs into reliable and robust solutions, including 3D CAD modelling, basic engineering hand calcs, 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 with suppliers and liaise with and present to clients.
- Manage the project team, cost and timescales.
- Work in accordance with the certified PDD quality systems and wider regulatory requirements.

Requirements

We are looking for a talented and dynamic individual with broad design, technical and communication and commercial abilities needed to manage successful product development, profitable projects and ongoing client relationships.

Minimum requirements include:

- 1st or 2:1 bachelor's degree in Product Design Engineering or equivalent
- Skilled in 3D CAD modelling (Solidworks) with strong surfacing ability
- Good sketching ability (to explore and communicate technical concepts)
- Familiar with materials and processes including moulding, machining, casting, fabrication and assembly.
- Excellent written and verbal presentation skills
- Some experience of managing projects and the work of others
- To be suitable, candidates are likely to have over 10 years' project experience, with some in consultancy.

Ideally you also have experience in the following areas:

- Experience in the application of first principles engineering calculation to support design decisions.
- The ability to use Adobe Illustrator and render designs for presentation.
- Projects with significant quality & regulatory requirements (eg, medical devices)
- Practical workshop and lab skills; machining, fitting, assembly, testing, etc
- Arduino and/or Python coding

About PDD

PDD is a leading product and experience innovation consultancy. We create solutions that enhance businesses and improve people's lives.

With a unique multidisciplinary approach rooted in human-centred design, PDD helps customers in the healthcare, consumer and industrial sectors achieve commercial and creative success. Our global teams of researchers, designers, and engineers work together to uncover opportunities, manage risks, and deliver appealing, feasible, and sustainable solutions.

With studios in London, Shanghai, and Hopkinton MA, we partner with some of the world's leading companies and ambitious startups to deliver meaningful innovation.

At PDD, our culture is defined by diversity, inclusion, and curiosity. We are a team of inquisitive, collaborative, and highly motivated individuals who apply creativity to everything we do. We promote diversity across our studios- in the talent we hire, the clients we serve, and our project people.

We offer competitive pay, excellent benefits, opportunities for international travel, and a chance to engage with colleagues at professional and social events.

To apply for this position, please email careers@pddinnovation.com with a cover letter and your CV.