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Principal (elect) - Engineering Design

Reports to: Technical Director

Location: London

Summary

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

You will have engineering design expertise, confidence in your abilities and demonstrable experience developing design into manufacture.

Working in industry or consultancy, you will be familiar planning and managing medical device projects and overseeing team members and their work.

You will manage projects after induction to PDD systems, processes and tools, and after probation and with support from senior staff, you will review some PDD projects and take their responsibility for the quality of technical design, their client relationship and commercial success.

You will assume management of the functional team and play a key role in the development of this service capability.

Key Responsibilities & Accountabilities

- Key involvement in new business development meetings, networking and events to represent PDD.
- Lead the client project relationship, communication and presentation.
- Interpret briefs, determine requirements, prepare proposals, plans and cost schedules.
- Inspire and lead staff, resource project teams, and manage work to timescales and budgets.
- Lead the creation of inventive concepts, assess their feasibility and steer them towards viable designs.
- Develop designs into reliable and robust solutions, including math models, 3D CAD modelling and FEA/CFD simulation, risk analysis and prototype testing.
- Support other teams with first principles input and system assessment
- (typically; mechanism, structural, thermo-fluids and manufacturing).
- Oversee design checking, including V&V, risk review and quality documentation.
- Oversee specifications for manufacture, including CAD, tolerance analysis and engineering drawings.
- Work in accordance with the certified PDD quality systems and wider regulatory requirements.

Requirements

We are looking for a talented, dynamic and experienced Engineer and Manager with the technical, communication and commercial ability needed to lead successful product development, profitable projects and ongoing client relationships.

Minimum requirements include:

- 1st or 2:1 master's degree in mechanical engineering, mechatronics or equivalent.
- Experience developing medical devices.
- Proficient in Solidworks 3D CAD.
- Familiar with materials and processes including moulding, machining, casting, fabrication and assembly.
- Ability with engineering simulation tools (FEA/CFD) and tolerance calculations.
- Excellent written and verbal presentation skills.
- Able to develop business relationships and ongoing workstreams.
- To be suitable, candidates are likely to have over 10 years' project experience, with some in consultancy.

Preferably, you will also have experience in the following areas:

- Structural analysis, mechanism design and fluids
- System level design including some electronics and firmware integration
- Arduino and/or Python coding
- Practical skills; fitting, assembly, testing, etc

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 <u>careers@pddinnovation.com</u> with a cover letter and your CV.