Round Peg Cambridge Ltd

# Junior Mechanical Design Engineer

## General Information

| | |
|---|---|
| Hours | Full Time & Permanent |
| Locations | Office based - Cambridge |

## What we do

At Round Peg, we're passionate about solving the design challenges of some of the world's most exciting and innovative products. We support new technology through the crucial stages of design, prototyping to manufacture and delivery.

We work with companies of every size, from start-ups to major players, and across a range of different industries, from medtech and pharma to telecoms, manufacturing and consumer products. Our goal is to provide an external resource that can slot seamlessly into a client's project, like a round peg in a round hole.

We are a small team of enthusiastic individuals whose goal is to deliver simple, elegant solutions to our clients. We want every product to deliver more by using less. Our strength comes from the sheer breadth of our creativity and experience giving us a unique place in the Cambridge tech ecosystem.

## Summary

In this role, your primary responsibility will be the design, development, and implementation of new client products within predefined budget and time constraints. Whilst having the full support of the teams' experience, you will be expected to represent us in front of clients and deliver the excellent quality of work for which we are renowned.

As well as direct client projects, you may be seconded into client teams to support the delivery of larger-scale projects alongside other engineers. From this experience, you will widen your industry knowledge and will build your external network.

This role represents an excellent opportunity to join a progressive organisation where you will be provided with the platform to grow and develop alongside the business.

### Key responsibilities

- Design, development, and implementation of technically innovative and commercially competitive new products.
- Perform rapid prototyping, prototype builds, functional lab testing and analysis of test data.
- Participate in concept generation, brainstorms and workshops.
- Use tools such as tolerance analysis, FMEA/DFMA and computer simulation to ensure robust designs.
- Production of manufacturing drawings, technical drawings and BOMs (bill of materials).
- Produce and maintain technical documentation, such as CAD drawings, costing data, technical construction files, design calculations, bills of materials, technical specifications, marketing information and test data.
- Ensure all designs comply with the required contract specifications.
- Liaise with clients, capture their requirements, and help prepare proposals.
- Work with external manufacturing partners and other suppliers.
- Manage and prioritise own workload reporting progress and issues to project leader.

## Skills & experience

### Essential

- A 2:1 degree or equivalent in Mechanical Engineering, Product Design, or related discipline (or be in your final year of a degree course).
- Strong creative and technical abilities in concept generation, engineering analysis and detail design.
- You will have an enthusiasm for innovation and creativity.
- Ability to work creatively and collaboratively in a team.
- Experience in 3D CAD (SolidWorks and Creo desirable).
- Knowledge of drawing and design standards and a competent understanding of design for manufacture.
- Understanding of a wide range of manufacturing techniques, materials, and assembly processes.
- IT skills - including Microsoft Office.
- Good problem-solving skills and understand the fundamentals of root cause analysis.
- You will be able to plan and prioritise, work to deadlines and under pressure.

### Desirable

- Some industry experience within an engineering role, or previous internship.
- Knowledge of developing plastic injection moulded components and enclosures for mass manufacture.
- PDM system experience.
- Software coding experience such as VBA or Python would be advantageous.

## Benefits include:

- Competitive salary
- Enhanced pension scheme
- 24 days holiday, increasing 1 day per year up to 27 days, as well as bank holidays.
- In-house training and career development
- Regular performance appraisals and annual pay reviews
- Referral bonus scheme
- Relocation costs allowance
- Discretionary performance bonus
- Vendor visit scheme

## Where to find us

Our Cambridge office is: **Round Peg Cambridge Ltd, Claydon Design Centre, Unit 7, Hazlewell Court, Bar Road, Nr Bar Hill, Cambridge, CB23 8DS.**

(what3words: ///engineers.respects.iterative)

Our office is accessible using the following options:

- Bus route 5 (bus stop E4 on Emmanuel Street) for a 20-minute journey to Tesco Bar Hill, followed by a 10 minute walk.
- A 30-minute bike ride via National Cycle Route 51.

## To apply

Send us your CV via email to: careers@round-peg.com

If you have a portfolio or some recent assignments from your university course to showcase your work, we would be delighted to receive it. This is not essential but will strengthen your application.