



Subtera helps asset integrity teams to quickly determine the underlying condition of industrial assets. Our unique sensing technology detects hidden corrosion, commonly known as CUI, and moisture concealed beneath a wide range of thermal insulations and non-metallic cladding. This groundbreaking technology will provide a crucial step forward in the fight against CUI in multiple landscapes and help the energy industry to achieve net-zero.

We have a unique and hugely exciting opportunity for an experienced **Senior Mechanical Design Engineer** to join our team and play a pivotal role in our development journey.

As a Senior Mechanical Design Engineer at Subtera you will help design and develop our innovative solutions. Collaborating closely with colleagues, you will bring technical ideas, product concepts and system improvements to life. This role offers an exciting opportunity to work on interesting projects with industry experts, operators, and authorities to make a significant impact on our technology's success.

The role is based at our research facility at the renowned Rutherford Appleton Laboratory, Harwell, in Oxfordshire, but flexibility is a given.

What the role is about:

- Conceiving, designing and developing new products and technology evolutions in line with a given brief and within a defined budget
- Producing designs, drawings, and documentation in compliance with relevant product and design standards
- Playing a key role within a small technical team and working closely with business leadership to ensure alignment with company goals and objectives

What you'll do:

- **Task Management:** Take personal responsibility for tasks and use your own initiative to see them through from initial brief to completion
- **Generation and maintenance of detailed manufacturing drawings, general assemblies, and Bills of Materials**
- **Design and development of product test methods related to R&D activities**
- **Product Design:** Lead the mechanical design and development of new products from concept to production, ensuring that they meet performance, reliability, and cost targets
- **CAD Modelling:** Utilise industry-standard computer-aided design (CAD) software to create 3D models and detailed drawings of mechanical components and assemblies.
- **Prototyping:** Oversee the creation of prototypes and test models and perform validation testing to iterate and refine designs
- **Collaboration:** Work closely with functional teams and external partners to ensure seamless integration of mechanical components with electrical, software, and user experience aspects of the product

- Documentation: Prepare detailed design documentation, including specifications, drawings, and assembly instructions, to facilitate manufacturing and assembly
- Cost Optimisation: Continuously seek opportunities to reduce production costs without compromising product quality or performance
- Research and Innovation: Stay updated on industry trends, emerging technologies, and best practices to drive innovation in product design

Your Key skills and personal attributes:

- Strong conceptual and design skills with the ability to produce creative and innovative solutions for a given project
- Strong 3D CAD skills (SolidWorks) with experience of producing detailed engineering drawings with good understanding of drawing standards and tolerancing
- Excellent knowledge and experience of current manufacturing processes and techniques using a range of materials and methods including, but not limited to, CNC machining (CAM)
- Broad understanding and experience of a wide range of complimentary engineering disciplines and general systems integration
- Excellent problem-solving skills and ability to effectively prioritise and resolve issues
- Attention to detail and regard for quality of work
- Keen to collaborate and interact with customers and colleagues
- Degree level or equivalent qualification
- Ability to proficiently use Microsoft Office suite – Word, Excel, PowerPoint and MSP
- Ability to work under pressure and meet targets and deadlines, with minimal management supervision
- Be willing to support other departments as and when required and help drive the needs and goals of the business
- Be familiar with industry standards and regulations (e.g., ISO, HSE, regulatory requirements) helpful

Please visit our website for further details about this role and our company.

What you'll get in return:

You'll be front and centre of an exciting new product set that can dramatically change the inspection and testing landscape. As well as that, we'll give you a market competitive salary and benefits package.

If you are a passionate engineer with a strong desire to create groundbreaking products and you want to be part of a dynamic team, we'd love to hear from you.

Please contact: recruitment@subterandt.com

The initial closing date for applications is 15th October 2023, however applications will be reviewed and interviewed on an ongoing basis until this vacancy is filled.