

Senior Mechanical Design Engineer

Our Offering

- Salary: £60-80k (depending on experience)
- Annual Leave: 25 days + bank holidays
- 1 additional day of leave earned per year (max 5 days)
- 5% Pension contribution
- Private Health Insurance (incl. Mental Health)
- Family Friendly work scheme
- Life insurance
- Annual leave rollover (up to 5 days per year)
- Company stock option scheme
- Two Paid volunteering days per year
- £50/month towards wellbeing
- Bike to work scheme
- £3000 annual personal development and training budget
- £500 annual contribution to nursery
- Paid paternity/maternity leave scheme
- Catered lunch on Fridays
- Up to £1000 relocation contribution

About LUX

LUX is an exciting start-up daring to disrupt existing industry norms and take the lead in revolutionising the approach to Liquid Hydrogen. We are based in Oxfordshire, the centre of Cryogenics R&D in the UK, ideally located for developing our unique Low-Carbon liquid Hydrogen technology. LUX is currently developing the technology to ultimately supply our customers with Low-Carbon liquid Hydrogen on-site-on-demand.

We are scaling at pace, raising significant grant funding and private investment. LUX embraces new technologies, processes & methods at the core of our engineering approach. We have a welcome approach to taking risks and believe that learning from failure and iterative testing achieves the best results.

Our ethos is one of informed ideation, focussed risk-taking and passion for change. LUX is seeking candidates who are enthused by the idea of defining new possibilities in engineering Hydrogen liquefaction systems. We are offering candidates an opportunity to work on the cutting edge of liquid Hydrogen innovations, and be fairly rewarded for their time, effort and skills. We are growing fast and we make decisions quickly.

If you feel this could be the journey for you, we would like to hear from you.

Role

As a Senior Mechanical Design Engineer, you will be leading LUX's core technology design and development on a range of projects and tasks. You will be working with other team members such as project managers, and senior leadership, in addition to external suppliers, to ensure that projects are delivered successfully. The role requires applying your skills and knowledge across a broad range of problems and challenges, sourcing alternative solutions independently and efficiently.

Responsibilities

- Design and develop mechanical systems and components for various projects
- Create detailed parts/models and assemblies, using CAD software (Siemens NX)
- Ensure Design for Manufacture is implemented into design solutions
- Produce engineering drawings working to BS8888 following engineering best practice
- Collaborate with team members and external suppliers to ensure design specifications are met
- Perform system design and integration, including the selection of appropriate components and materials
- Perform basic hand calculations to support design process e.g. bending moments, hoop/axial stress etc
- Perform basic simulations to assess design integrity and performance assessments, such as low-level FEA to verify hand-calculations etc
- Conduct testing and validation of components to ensure functionality and reliability of mechanical designs
- Provide technical support and guidance to junior designers and engineers
- Identify and resolve design issues using first principles thinking

Essential Qualifications, Skills & Experience

- Bachelor's degree in an engineering or related STEM discipline, OR, additional 2+ years of professional experience in design engineering roles
- Minimum 5 years relevant experience in design engineering roles
- Experienced with Siemens NX CAD software, including part & assembly design, and drafting
- Ability to create detailed schematics and technical drawings
- Strong mechanical knowledge and understanding of engineering principles
- Extensive experience with Geometric Dimensioning and Tolerancing (GD&T) and performing tolerance stack analysis
- Experience with NX surfacing

Preferred Qualifications, Skills & Experience

- Masters degree in Mechanical engineering or related STEM discipline
- 7+ years' relevant experience in design engineering roles
- Expert user in Siemens NX CAD software, including part & assembly design, surfacing, and drafting
- Excellent problem-solving skills with a focus on first principles thinking
- Strong communication skills to effectively collaborate with team members and external suppliers
- Experienced in designing a diverse range of mechanical components, systems and projects
- Familiar with Hydrogen related design principles and engineering
- Experienced/knowledgeable in advanced manufacturing processes such as Additive Manufacturing (3D Printing)
- Experience in cryogenic engineering projects
- Evidence of technical problem solving

Application

To apply, please email your covering lettering and CV to careers@luxindustries.co.uk and ensure to provide the details and contact information for two professional references in your application.

Please state if you require a visa/sponsorship to work in the UK. Please quote the following reference number in your email subject: LUX-C1