Graduate Mechanical Design Engineer

Our Offering

- Salary: £28-36k (depending on skills & 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 Clean 'Green' liquid Hydrogen technology. LUX is currently developing the technology to ultimately supply our customers with Clean 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 Graduate Mechanical Design Engineer, you will be working on LUX's core technology, performing the required tasks for design, make, develop and test on a range of projects. 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, make, develop and test 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
- Assist in sub-system and system design/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
- Creating and developing technical solutions for design problems and tasks using programming and coding
- Conduct testing and validation of components to ensure functionality and reliability of mechanical designs

- Provide technical support to senior team members
- Identify and resolve design issues using first principles thinking

Essential Qualifications, Skills & Experience

- Bachelor's degree in an engineering or related STEM discipline, OR, 2+ years of professional experience in design engineering roles
- Experience with CAD software e.g. Siemens NX, Solidworks, CATIA, including part & assembly design, and drafting
- Good communication skills to effectively collaborate with team members and external suppliers
- Ability to create basic schematics and technical drawings
- Good foundational mechanical knowledge and understanding of engineering principles
- Basic knowledge of Geometric Dimensioning and Tolerancing (GD&T)
- Proficiency in at least one coding language e.g. Python, C#, C++, MATLAB
- Microsoft 365 suite literate

Preferred Qualifications, Skills & Experience

- Masters degree in Mechanical engineering or related STEM discipline
- 3-12 months relevant experience in mechanical/design or related engineering roles
- Experience using 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
- Experience in designing a range of mechanical components, systems and projects
- Basic knowledge of Hydrogen related design principles and engineering
- Experience/knowledge in advanced manufacturing processes such as Additive Manufacturing (3D Printing)
- Basic knowledge of cryogenic engineering
- Evidence of technical problem solving
- Experienced in C# or C++ programming
- Skilled in Microsoft 365 suite literate, particularly Excel

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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 (preferred) or academic 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-C2

Message to Recruiters: LUX will not accept contact or applications for this role through recruitment agents/agencies.