

Role Profile



TITLE	Mechanical Design Engineer
REPORTING TO	Control & Instrumentation Manager
WHERE & WHEN	Monday - Friday 37 hours Wallyford
ABOUT US	
<p>Here at LOGAN ENERGY, we are INNOVATIVE, ENGAGING, and FAST-PACED, and our goal is to deliver the future today. If you're INQUISITIVE, CREATIVE, and enjoy working collaboratively with like-minded people, this is the place for you.</p> <p>Logan Energy has extensive experience and a proven track record in delivering projects and solutions in the hydrogen and clean energy sectors. We specialise in integrated engineering solutions incorporating hydrogen technologies including, production, refuelling, storage, distribution, and fuel cells. We offer a full turnkey service from project inception and feasibility, design development, manufacture, installation, operation, and maintenance.</p> <p>We have over twenty-six years of expertise in hydrogen and fuel cell technologies and to date we have built and installed hydrogen production & refuelling stations for the UK and European markets and have also installed, commissioned and maintained over 1MWe of fuel cells providing heat, power and cooling in landmark buildings in the UK.</p>	
PURPOSE OF ROLE	
<p>Candidates will design equipment for use in the Hydrogen / Renewable energy projects typically refuelers, fuel storage and installations using CAD and the preparation of associated calculations, technical files, O&M Manual and HAZOP documents.</p> <p>The role will require you to work closely with other Mechanical and Process engineers through the design process in addition to the Engineering team, you will be required to work closely with other support departments such as, Quality, Purchasing and Production.</p>	
DUTIES	
<ul style="list-style-type: none">• Design of Hydrogen based equipment including refuelers, fuel storage and installations• Complete supporting calculations which will include, flow, pressure, structural, heat transfer calculations and FEA• 3D CAD Design• Working with controls and electrical engineers to support the complete system design• Preparation of part specifications and the procurement of parts• Preparation of Technical file documentation and O&M manuals	

- Ensure that the H&S, quality, and environmental procedures are followed
- Maintain the project PED and HAZOP documentation
- Reporting to Operations Manager of any incidents, spillages etc that occur
- Supporting the customer services team

MAIN DELIVERABLES IN ROLE

- Whole mechanical design projects, with associated documentation and CAD models
- Cost and schedule compliant designs

PERSON SPECIFICATION

Experience

- CAD proficiency in 3D and 2D
- 2D drawing proficiency: standards, dimensioning, materials
- Mechanical engineering design experience: structural and pressure vessels
- Structural and pressure vessel regulations knowledge
- Materials and manufacturing knowledge

Skills

- Strong Team working skills
- Hands-on designer
- Project Management skills
- Excellent Attention to Detail
- Excellent Time Management skills
- Logical thinker with pro-active mindset
- Great initiative
- Strong Communication skills both verbal and written

Education

- Mechanical engineering degree

Desirable

- Master's degree in a relevant mechanical engineering discipline (structural design, machine design, pressure vessels, fluid dynamics)
- Mechanical engineering experience: building and civil
- Metalwork and pipework hands-on manufacturing experience

- Experience in Autodesk Inventor 3D