



Mechanical Design Engineer – Arcola Energy

Job Description

Mechanical design from concept through to production components of fuel cell and battery systems for automotive, off-highway, and stationary applications.

Purpose

Responsible for packaging, detailed design, release, and integration of H2 fuel cell and electric powertrain components and subsystems including battery systems (from modules to whole packs), busbars, structural framing, pipework and harness routing, heating and cooling systems. Ensuring designs meet cost, quality, durability, performance and compliance requirements.

Outline

- Creating new designs from the concept stage into production.
- Modifying existing designs to suit new requirements.
- Carrying out 3D design studies to assess specification feasibility.
- Creating components and assemblies in 3D CAD.
- Supporting production releases through 2D engineering drawings.
- Work with Electrical and Software teams to support effective whole system design
- Work with Quality and Compliance Manager to ensure designs meet codes, standards and regulations.
- Supporting other Arcola Energy activities where required.
- The position is based at Arcola's office in London but some remote work at customer sites will be required.

Person Specification

- Good degree in mechanical engineering or other related engineering discipline.
- Experience in design of mechanical systems (machined, fabricated and cast components) including application of GD&T and knowledge of BS8888.
- Experienced in using Solidworks for solid and surface design, and harness routing.
- Good knowledge of production methods and tooling.
- Understanding of electrical systems (batteries, electric machines, inverters, etc).
- Willingness to work cross-functionally in the Arcola team.

Terms and Conditions

Salary:	£25-30k or £30-35k (Senior) dependent on experience
Hours:	40 hrs/week. 9.30am-6pm Monday to Friday with half-hour lunch break. Occasional evening and weekend working (TOIL system in operation)
Holidays:	28 days annual leave, including public holidays
Probation period:	3 months
Access:	Arcola Energy is wheelchair accessible throughout
Benefits:	Free tickets to Arcola Theatre shows (subject to availability) Arcola staff discount on food and drink in café/bar