

## Lead Mechanical Engineer – Arcola Energy



### Job Description

Lead mechanical design and project management from concept through to delivery of fuel cell and battery systems and associated subsystems for automotive, off-highway, and stationary applications, ensuring all project requirements are fulfilled.

### Purpose

Responsible for technical management throughout project lifecycle from definition to delivery; ensuring cost, quality, timing, performance, and compliance requirements are fulfilled. Working knowledge of electric drivetrain subsystems to enable whole-system design decisions. Delegation of tasks to design engineers as well as performing them yourself where necessary.

### 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.
- Component selection and procurement
- Manage all CAD activities within a project.
- Manage bills of materials.
- Manage project technical risks.
- Preparation of FMEAs and risk assessments.
- Implementation of Arcola project model.
- Coordinate delegation of tasks to design engineers.
- Work with Electrical and Software teams to support effective whole system design
- Work with Quality & Compliance Manager to ensure designs meet codes, standards and regulations.
- Supporting other Arcola Energy activities where 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.
- High level of knowledge in production methods and tooling.
- Experienced in development of DVPs and FMEAs.
- Experienced in development and undertaking of HIL tests to prove designs.
- Strong understanding of electrical systems (batteries and BMS, electric machines, inverters, etc) and design, test, and production thereof.
- Willingness to work cross-functionally in the Arcola team.

### Terms and Conditions

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