

Engineering Design Manager, Automotive – Arcola Energy Ltd.

Arcola Energy, a Ballard Power Systems company, is one of the fastest growing hydrogen technology companies in the UK, working with some of the most progressive local authorities, fleet operators and OEMs to meet their zero-emission targets. Arcola has more than 10 years of experience in delivering solutions that address the deployment gap between rapidly evolving low-carbon technologies and production-ready solutions.



Position: Design Manager
Reports to: Engineering Director
Location: Dundee/Midlands - the job holder will support programmes in Scotland, England and Europe as well as other opportunities.

Job Description

You will manage Arcola's design team, from concept through to production components - covering fuel cell and battery systems for automotive, off-highway, and stationary applications. Responsible for driving the performance of the team, liaising with colleagues across all areas of the business.

The team's activities include detailed design, release, and integration of hydrogen fuel cell and electric powertrain components and subsystems. This includes battery systems (from modules to whole packs), structural framing, pipework and harness routing, heating and cooling systems. Reporting to the engineering director, the design manager will be responsible for ensuring that all these meet the highest standards of quality.

Primary responsibilities:

- Managing and developing team of highly skilled mechanical engineers
- Process development for Arcola's product development model
- Creation and ownership of engineering design rules and standards and promoting technical best practices
- Checking and approving engineering drawings and releases
- Ensuring thorough documentation of design and release process and engineering changes
- Interfacing with quality and manufacturing teams to ensure components and products meet quality standards
- Issue investigation using 8D, DMAIC or similar tools
- Work with Systems, Electrical and Software teams to support effective whole system design
- Ensuring designs meet codes, standards and regulations.
- Supporting other Arcola Energy activities where required
- The position is based from home with frequent site visits to Arcola facilities in the UK and customer sites/test facilities as required

Experience and competencies:

- Degree in mechanical engineering or other related engineering discipline.
- Significant experience in design of mechanical systems (machined, fabricated and cast components) including application of GD&T and detailed knowledge of BS8888
- Experienced in using Solidworks or similar CAD software for solid and surface design, pipe routing and harness routing
- Experience using a Product Data Management system such as Solidworks PDM
- Experience in design for manufacturing, assembly and service

- Understanding of general automotive design practices/methods and regulations
- Good knowledge of production methods and tooling including working with suppliers to deliver
- Experience in managing a team of engineers
- Experience in project management and engineering delivery
- Desirable: Experience with performing Finite Element Analysis
- Desirable: Understanding of electrical systems (batteries, electric machines, inverters, etc).
- Willingness to work cross-functionally in the Arcola team

What you'll receive in return:

- Competitive salary, based on experience
- Support towards CEng accreditation and your membership fees paid for IET/IMechE
- Flexible work arrangements
- An opportunity to directly impact projects – from concept through to production
- Free tickets to the Arcola Theatre (subject to availability), and Arcola staff discount on food and drink in café/bar

About Arcola:

Arcola Energy delivers solutions that significantly improve environmental performance compared to incumbent technologies, contributing to the development of cleaner, greener, more secure, more democratic energy and transport systems, enabling healthier living for everyone.

We are committed to fostering a diverse work environment and are proud to be an equal opportunity employer. As we highly value diversity in our current and future team, we do not discriminate on the basis of race, religion, colour, national origin, gender or gender expression, sexual orientation, age, marital status, disability or any other characteristic protected by law.

To apply, email: jobs@arcolaenergy.com