

Automotive Test and Development Engineer – Arcola Energy Ltd.



Arcola Energy 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: Test and Development Engineer, Automotive
Reports to: Senior Test and Development Engineer
Location: London/flexible - the job holder will support programmes in Scotland, England and Europe as well as other international opportunities

Job Description

As part of Arcola Energy's product development engineering team, you will primarily be working on the development and execution of design validation plans for fuel cell system applications. The purpose of the role is to ensure that the reliability and optimised performance of the product meet the design intent.

Primary responsibilities:

- Development of design verification plan and report (DVP&R)
- Analysis of interactions between components, including calculations to show the system's predicted overall performance in various loading and environmental conditions
- Advise design engineers to ensure the final integrated system meets its objectives
- Advise design engineers on designing for service and maintenance
- Supporting homologation activities to ensure product compliance
- Execute in-house test plans and contribute to the ongoing development of Arcola Energy's internal testing capability
- Execute test plans with external testing houses as required
- Interpretation of data and translation into system improvement and optimisation
- Reporting on test outcomes and data-driven design changes, ensuring knowledge transfer through to further projects through good data reporting

Experience and competencies:

- Systems engineering approach applied to automotive product development
- Development of DVPs and execution of test plans
- Development of/contribution to DFMEAs
- Familiarity with automotive regulations and experience demonstrating compliance for approval
- Hands-on experience setting up tests and operating test equipment/instrumentation
- Vehicle-level testing (static, track and on-road)

What you'll receive in return:

- Competitive salary, based on experience
- Support towards CEng accreditation and your membership fees paid for IET/MechE
- Flexible work arrangements – we are currently working from home
- 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 is a privately owned company and offers a truly independent view of one of the fastest growing industries that will lead the road to zero emissions. Our independence also allows us to focus on what we believe in – products which make a positive contribution to society, delivered with total commitment to quality, safety and compliance.

We deliver 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.

Arcola Energy is committed to fostering a diverse work environment and 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.