

Job Description: Project Systems Engineer (Truck, Bus)

Purpose: responsible for taking the development of a hydrogen fuel cell drivetrain through Arcola's product development process based on the Systems Engineering V-model. Working with the Mechanical Design, Electrical, Control, Thermal, Homologation, Test & Development and Manufacturing teams to bring together contributions from each discipline and ensure engineering deliverables are ready for design and gateway reviews.

Organisation: reporting to Project Systems Engineer

Location: based from home with frequent site visits to Arcola facilities in Scotland and customer sites/test facilities as required.

Principal Accountabilities and tasks:

- The application of Model Based Systems Engineering (MBSE) at a vehicle, system, subsystem and component level including engineering work to support design decisions around system architecture and component selection.
- Work with customers, suppliers, vehicle operators and external test facilities to achieve the best outcomes for the system development.
- Follow the Arcola's product development model to deliver engineering outputs supporting vehicle development
- Requirements capture at vehicle, system, subsystem and component level.
- Application of systems engineering tools to the requirements engineering, architecting and design of systems.
- Contribute to the ongoing development of Arcola's systems engineering processes, particularly integration of MBSE tools into product development model.
- Work with powertrain modelling team to ensure simulation represents system and duty cycle/operating conditions as accurately as possible
- Ownership of key engineering documents including System Boundary Drawings, Engineering Change Documentation, FMEA and FTA, working with the various engineering teams to ensure all content is complete.
- Contribute to DVP & R working with Test & Development team
- Support BOM development activities, engaging with the supply chain management team.
- Work with PMO to support project scheduling and resource estimations. Also, to provide engineering/technical reporting updates.
- Contribute to Operational Risk Assessments and Safety documentation
- Work with quality and compliance team to ensure designs meet codes, standards and regulations
- Supporting other Arcola Energy activities where required.

Experience and competencies:

- Engineering degree

- Working knowledge of the Systems Engineering V-model
- Experience in application of MBSE tools and techniques including UML or SysML and associated software e.g. Sparx Enterprise Architecture or similar
- A good understanding of electric drivetrain architectures and familiarity with different types of components such as batteries, motors, power electronics

General

- Be knowledgeable about the full range of Arcola Energy work.
- Represent Arcola Energy in a professional manner.
- Work with Arcola Energy, Arcola Theatre and Arcola Bar staff to deliver the best possible outcomes across all organisations.
- Suggest and implement approved improvements to company processes.

To apply, email jobs@arcolaenergy.com