

SENIOR DEVELOPMENT ENGINEER**SUMMARY**

Provides senior experience and excellent problem-solving capability to a small team of R&D engineers involved in the installation and commercialisation of hydrogen fueled heavy duty vehicles and machines. The role requires a proven track record in delivering innovative approaches and novel solutions from an individual with the flexibility and self-motivation to seize the initiative and tackle challenges head on. A clear interest in applying the latest technology within a project focused, results orientated environment is essential, alongside the ability to work as part of a team and focus on delivery with a practical hands-on approach. Primary location will be Aintree, Liverpool but travel to collaborative partners and customers in UK and abroad may be required.

TYPICAL DUTIES AND RESPONSIBILITIES

- Design and installation of R&D prototypes.
- Component and system design.
- Component specification and sourcing.
- Wiring loom specification and design.
- Building prototype wiring harnesses for both low and high voltage systems.
- Validation testing of components and systems as required.
- Preparation and maintenance of R&D BOMs.
- Set up and configuration of CAN based systems.
- Data collection and analysis.
- Working as part of a team (both internal and external) on collaborative projects.

FUNCTIONAL SKILLS

- Delivering across a number of R&D projects (sometimes simultaneously), to provide technical project outputs in a timely manner, with a focus on practical, workable solutions
- Ownership of the specification and component selection for fully integrated systems, sometimes first of a kind within the context of complex multi-functional projects
- Defining control system requirements to best fit each project's requirements and communicating this effectively with other members of the team with specialist functional capability.
- Building and validating R&D prototypes.
- Must be a "self-starter" and perform outlined tasks with very limited direct supervision and able to demonstrate a high degree of initiative.
- Ability to maintain confidentiality.
- A willingness to travel to off-site locations for work will be necessary.

QUALIFICATIONS, EDUCATION, SKILLS, AND EXPERIENCE**Mandatory**

- Mechanical Engineering Degree (or related field) or other relevant industry experience.
- Minimum 5-10 years industry experience (in addition to degree).
- Ability to read, produce and amend automotive wiring diagrams and technical drawings.
- Ability to communicate technical data effectively both verbally and in written form at appropriate level to colleagues, technical contacts and customers.
- Mechanical and electrical integration on vehicle applications
- Ability to solve engineering problems using 'hand calculations.'

Desired

- Working knowledge of engines and/or fuel cells
- Working knowledge of electric drivetrain/high voltage systems
- Working knowledge of CAN bus systems
- Working knowledge of vehicle cooling systems
- Working knowledge of 3D CAD