Requisition Number:

Job Description.

HORIBA MIRA is a global provider of pioneering engineering, research and test services to the automotive, defence, aerospace and rail sectors. We work in close collaboration with vehicle manufacturers and suppliers around the world, providing comprehensive support ranging from individual product tests to turnkey engineering design, development and build programmes.

With over 70 years' experience in developing some of the world's most iconic vehicles, our engineers utilise the latest test facilities and simulation tools to make vehicles and journeys safer, cleaner, more efficient and rewarding. Our suite of 37 major test facilities, 100km of specialised proving ground and wealth of engineering experience, combined with our expanding international presence, means we are confident that we can achieve our vision – that by 2020 every journey in the world will be positively influenced by us.

Progress towards achieving our vision has been significantly accelerated through the creation of MIRA Technology Park, Europe's largest transport technology R&D cluster. By applying our advanced engineering, test and validation capabilities to our customers ' challenging programmes, we are already shaping journeys of the future

Title of Job:	Fuel Cell Senior Test Engineer			
Department:	D456 – Electrification & Battery Testing			
Grade:	Up to 4			
Date Required:	ASAP			
Salary Range:				
Number Required:	1			
Location:	HORIBA MIRA Nuneaton			
Contract Type:	**Permanent:**	X	**Contractor:**	
Responsible To:	Facilities Operations Leader, Electrification & Battery Testing			
Subordinates:	None			

Main Purpose of Job
HORIBA MIRA – a world-leader in advanced engineering, research and product testing has partnered with a fuel cell technology and engineering company to provide a testing service for their world-leading, fuel-flexible fuel cells which are able to generate power from conventional fuels like natural gas and from sustainable fuels like biogas, ethanol or hydrogen at very high efficiency. A dedicated facility is being created with automated test equipment at the MIRA Nuneaton site and your responsibilities will involve set up and test of the fuel cells, data acquisition, analysis and first line diagnosis, test stand maintenance and repair, and continuous improvement activities. The main responsibilities of the role are: - • Manage and co-ordinate customer inventory. • Oversee the set up and execution of durability tests on the product. • Lead product fault finding and diagnosis. • Lead test stand fault finding, diagnosis and repair. • Report KPIs and identify and lead improvement activities. • Technical leadership within the MIRA team. • Lead QHS & E activities for the area. • Manage communications with the customer.

Key Functions
• Manage customer inventory with full traceability. • Execute test plans for fuel cell technologies. • Prepare test stands and platforms for testing. • Installation of test pieces on test stands. • Develop processes to ensure auditable data is produced and recorded. • Manage and report KPIs, both internal and those required for the customer. • Review and analyse test data. • Produce test reports and present findings and recommendations. • Close liaison with the customer Test Operations team. • Lead fault finding, issue investigation and improvement projects. • Lead preventive and breakdown maintenance and repair of the test stands. • Create work instructions, standard operating procedures and risk assessments. • Schedule and plan tests. • Provide technical leadership within the MIRA team.

Essential Qualifications	Preferred Qualifications
BSc/MSc or BEng/MEng level in Mechanical Engineering, Physics, Electrical/Electronic Engineering, or similar.	• Chartered Engineer or on track to achieve Chartered status • Software coding, e.g. Visual Basic, Python

Essential Experience	Preferred Experience
Minimum 4 years' post graduate experience in a relevant industry.	• Industrial experience ideally gained in a fuel cell/battery company, automotive, aerospace or similar industry. • Working knowledge of test automation software, e.g. LabView. • Experience of planning and carrying out testing.

	• Experience of working with hazardous gases. • Knowledge of heat transfer, control systems, electronics and instrumentation. • Knowledge of chemical and thermodynamic processes, control systems and instrumentation.

What is the candidate likely to be doing now?

Other information
• Ability to visualise and summarise data, perform basic sense checking, identify inconsistencies and perform basic thermodynamic calculations, e.g. efficiency, simple heat balances. • Ability to read and produce technical documents including mechanical drawings, electrical schematics and P&IDs. • Ability to plan and manage work packages. • Ability to produce risk assessments and other similar safety tools, e.g. HAZID, HAZOP and FMEA. • Sound report writing skills and the ability to communicate results and deliver presentations to colleagues and management. • Grasp new concepts quickly and develop a good working knowledge of fuel cell Power products and their operation. • Delivery-focused and highly motivated, capable of handling multiple priorities and working alone as well as part of a high-performing team. • This role will be required to work flexible hours which may include unsociable hours and occasional weekends. • Although the primary focus of this role is the testing of fuel cell products, you may be required to work in other areas of Propulsion & Electromobility test services occasionally as demand dictates across the business.