

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.

The role

The successful candidate will be based in our Battery Abuse Test (BAT) and Advanced Battery Development Suite (ABDS) facilities.

The Battery Abuse site is predominantly an outdoor facility specifically designed to test EV batteries, modules and cells to their safe working limits and beyond. It provides customers with a safe and secure location to perform regulatory abuse testing such as short circuit and fire resistance tests as well as bespoke tests such as coolant flooding and thermal propagation tests.

ABDS is a purpose-built facility comprising of a 600kW exerciser with an additional 6 x cell exerciser channels, it is here that cells, modules and batteries are tested to aid the development of the end product. The testing conducted in ABDS is customer defined and covers a wide variety of testing such as end of line sign off, durability and thermal performance.

Title of Job:	Technician/Engineering Technician		
Department:	Electrification – Battery Abuse, Energy Efficiency Capability Group		
Grade:	2R/3K depending on candidate qualifications, skills and experience.		
Date Required:	ASAP		
Salary Range:			
Number Required:	1		
Location:	Nuneaton		
Contract Type:	Permanent:	x	Contractor:
Responsible To:	Department Manager – Andy Hayto		
Subordinates:	None		

Main Purpose of Job

- Prepare customer (EV battery) product for testing within the ABDS (Advanced Battery Development Suite) or BAT (Battery Abuse Test) facilities.
- Assist engineers in setting up the test equipment, instrument the product and perform the test.
- Carry out pre-test safety checks on product and equipment and complete safety documentation.
- Take care of all facility equipment and instrumentation, co-ordinating any required repair or calibration with internal and external providers.

Key Functions

- Set up and assist in delivering ABDS and BAT tests, performing a combination of electrical and mechanical tasks.
- Maintain good records for customer products; records relating to safety, storage, and movement within MIRA.
- Carry out safety checks on customer supplied product and equipment when delivered and prior to test.
- Instrument customer product in preparation for test (e.g., thermocouples, DAQ equipment)
- Ensure tests are set up correctly and safely.
- Deconstruct test set ups safely and clear up on completion of testing.
- Post test data collection and basic data processing using Excel.
- Coordinate maintenance and calibration of test equipment and instrumentation.
- Generate basic test reports.
- General housekeeping of the facilities.

Essential Qualifications	Preferred Qualifications
<ul style="list-style-type: none"> • Level 3 qualification in a relevant engineering discipline. • Has completed apprenticeship. • Full UK driving license. 	<ul style="list-style-type: none"> • Level 4 qualification (HNC or equivalent) in a relevant engineering discipline.
Essential Experience	Preferred Experience
<ul style="list-style-type: none"> • Working knowledge/experience of DC electrical systems, preferably relating to EV technologies. • Mechanical competence – good dexterity using hand tools. • Fabrication skills – producing jigs and fixtures to support testing of EV battery products. • PC literate – competent in basic use of Excel & Word. • Health & Safety knowledge and awareness. 	<ul style="list-style-type: none"> • Demonstrable practical knowledge of automotive battery systems and electrical circuits (LV & HV). • Experience of build/installation of electrical, mechanical and/or hydraulic test rigs. • Experience of setting and using instruments to capture test data, such as thermocouples, DAQ systems etc. • Experience of interpreting technical drawings and manufacture items from them. • Proven background in dealing with customers.

What is the candidate likely to be doing now?

- Workshop technician working with electric/hybrid vehicles or battery systems.
- Working in a test environment preparing and performing tests on components or sub systems for automotive, aerospace or similar platforms, with DC knowledge.
- Installing or maintaining industrial equipment.
- May have recently completed training in this area.

Other information

- Flexibility with working hours will be required occasionally due to the timing of tests (e.g. weekend and evening working).
- Must be prepared to work outdoors throughout the year.
- Good team working ethic, working alongside Customer engineers, MIRA engineers but also able to work independently when required.
- Good communication skills; must be able to follow instructions, verbal or written .
- Self-motivated, at times work with minimal supervision.
- Thorough , has attention to detail.
- Able to diagnose and resolve a problem to root cause.
- Manual handling – must be able to lift up to 25kg independently (lifting aids are available but not always practical).
- Neat and tidy approach and attitude to the workplace.
- Health & Safety awareness.
- Training will be provided where appropriate.
- Full driving license essential.