

Job Description.

HORIBA MIRA is a global provider of automotive engineering, research, and test services, with 75 years of experience in developing some of the world's most iconic vehicles.

Working in collaboration with vehicle manufacturers and suppliers around the world, we provide comprehensive support ranging from technology development and individual product tests through to full-vehicle design, development and build programmes.

Whilst traditionally known for our vehicle test services – including over 40 major facilities and 100km of Proving Ground – HORIBA MIRA is so much more than this. Over the last ten years, we have invested heavily in the evolution of our engineering capability and in the development of MIRA Technology Park, Europe's leading mobility R&D location for developing the latest automotive technology.

The unique combination of engineering expertise, advanced testing facilities and prime location of MIRA Technology Park in the heart of the UK automotive industry, enables customers to develop and validate their technology, or vehicle, in one place.

Title of Job:	Lead Test Engineer - Military Vehicle Electrical Systems		
Department:	TBD		
Grade:	4Y (Senior Engineer)		
Date Required:	-		
Salary Range:	-		
Number Required:	-		
Location:	Nuneaton, UK.		
Contract Type:	Permanent:	X	Contractor:
Responsible To:	TBD		
Subordinates:	None		

Main Purpose of Job

- Technical delivery of a range of test projects involving Military and Automotive electrical systems, including planning and execution of complex power systems testing at a vehicle level.
- Co-ordinate the setup and day-to-day running of test programs to DefStan 61-5, ISO16750 and other related standards.
- Generation and interpretation of complex vehicle test plans to support DefStan 61-5 & ISO16750 with consideration for signal injection and data acquisition limitations/challenges.
- Co-ordinate the generation of customer reports.

Key Functions

Main Functions:

- Technical lead responsibility for complex project delivery.
- Understand and interpret modern vehicle architectures and 2 wire system diagrams to define measurement points across the vehicle platform systems.
- Write and interpret complex power system Detailed Trials Specifications and associated Test Plans.
- Define, install, and operate power testing equipment for complex test setups, such as Transient generators, LISN's, Load banks, DVM's and current measurement devices.
- Set up and monitor communications interfaces for networks using CAN, Serial, Flexray and other vehicle-based protocols as required.
- Configure and monitor data acquisition systems associated with each type of test with a view to automate logging systems.
- Understand signal inputs and outputs, identify anomalies, and interpret results to determine pass/fail criteria.
- Generate safe systems of work and risk assessments for the safe running day-to-day activities.

Other Functions:

- Assist in the development of proposals and support discussions with customers to generate new business.
- Support in the competency assessments and training of junior team members.

Essential Qualifications	Preferred Qualifications
<ul style="list-style-type: none"> • Relevant degree or equivalent in EMC, Electrical, Electronics or other relevant engineering discipline. Significant relevant professional experience will be taken into consideration. 	<ul style="list-style-type: none"> • Higher Degree or post-graduate qualification in a related Engineering discipline.

Essential Experience	Preferred Experience
<p>5+ years' experience in the following areas:</p> <ul style="list-style-type: none"> • Electrical testing or development of Military, Automotive or Commercial Vehicle systems to Def Stan 61-5 or ISO16750. • Detailed electrical test. • Power testing equipment specification & operation e.g., LISN's, load banks etc. • IT Literate – Microsoft Office with a strong ability to learn new software tools. 	<ul style="list-style-type: none"> • Both Def Stan 61-5 and ISO16750 test implementation. • Working knowledge of ISO17025 • NI LabVIEW or Vector systems experience • Data processing toolsets e.g., DIADEM.

Other information

The candidate should:

- Have excellent communication skills both written and verbal able to convey technical content to team members with differing technical ability
- Be a self-starter with the ability to execute designated tasks accurately and within time and budget constraints
- Be IT Literate – Microsoft Office with a strong ability to learn new software tools.
- Demonstrate creative thinking and be open to new ideas
- Work well under pressure with a positive, can-do attitude
- Have well-developed analytical skills – rigorous but pragmatic
- Use teamwork in a team – adopt a collaborative and open working ethos and demonstrate the ability to perform critical reviews
- Be willing to travel and work flexibly. The job may involve travel to customer sites for commercial activities and technical discussions.
- Have a full UK driving license.
- Successful candidates must be able to work in the UK without restrictions and meet UK government security vetting criteria.
- Relevant experience in a customer facing role.