

## Job Description.

HORIBA MIRA, (hereafter known as 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.

The Engine Test team are responsible for the delivery of engine development projects including performance and emissions, mechanical and durability development requirements. Our engine test facilities are tailored to specific customer project requirements and can cover gasoline, diesel and hydrogen testing.

<b>Title of Job:</b>	Powertrain & Thermal Rig Build Technician		
<b>Department:</b>	POWERTRAIN 453		
<b>Grade:</b>	2R		
<b>Date Required:</b>	ASAP		
<b>Salary Range:</b>	COMPETITIVE		
<b>Number Required:</b>			
<b>Location:</b>	NUNEATON		
<b>Contract Type:</b>	<b>Permanent:</b>		<b>Contractor:</b> Yes
<b>Responsible To:</b>	Department Supervisor		
<b>Subordinates:</b>	None		

### Main Purpose of Job

- Thermal rig build and engine fit to test bed
- Working as part of the technician team across Powertrain & Electromobility capability group

### Key Functions

- Use initiative and employ appropriate innovation to work tasks.
- Test engine palletisation, installation and commissioning
- Test Bed setup, configuration and operation
- Build of Thermal Test Cassettes
- Instrumentation of Thermal Test Cassettes & Engines for Emissions Test
- AC Re-Gassing
- Facility maintenance and housekeeping
- Follow work instructions with high attention to detail and quality

Essential Qualifications	Preferred Qualifications
Relevant City & Guilds or IMI or BTEC, vehicle engineering to level 3 and/or experience	HNC/HND in engineering or equivalent

Essential Experience	Preferred Experience
<ul style="list-style-type: none"> <li>• Preparation and installation of the test unit.</li> <li>• Fabrication skills including, cutting, grinding, welding.</li> <li>• Modern test methodologies and able to deliver tests right first time.</li> <li>• Understanding of current generation gasoline and diesel engines and components to be able to troubleshoot, perform assembly, strip and repair type activities.</li> <li>• Good computer skills, in particular MS Excel.</li> </ul>	<ul style="list-style-type: none"> <li>• Operation in a customer focused environment</li> <li>• knowledge of STARS and or CP Cadet v14 test cell systems</li> <li>• ETAS INCA or other calibration tools</li> <li>• Automotive electrics and wiring</li> <li>• Engine instrumentation and high speed data acquisition techniques and validation.</li> <li>• Use of Emissions sampling equipment (HORIBA MEXA, Particle Number analysers...).</li> </ul>

What is the candidate likely to be doing now?
<ul style="list-style-type: none"> <li>• Similar role at an automotive Test house or Race team, OEM, Tier 1 supplier,</li> <li>• Undertaking day-to-day work in an engine test facility covering test set up, testing, basic validation of results.</li> <li>• Developing IC engines and/or powertrain propulsion systems</li> <li>• Mechanic in garage or fabrication company</li> </ul>

Other information
<p>The candidate should:</p> <ul style="list-style-type: none"> <li>• Work to good Health &amp; Safety standards and ensure that company quality standards are adhered to</li> <li>• Have excellent mechanical and fabrication skills</li> <li>• Have good attention to detail</li> <li>• Have good problem solving skills</li> <li>• Be competent to be able work alongside customer engineers, MIRA engineers or unsupervised to carry out test/build instructions</li> <li>• Have good interpersonal skills and the ability to integrate into a team working environment</li> <li>• Be prepared to work extended hours or required shift pattern</li> </ul>