

Requisition Number:

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:	Project Engineer - Software		
Department:	0444 Software & Electrical Engineering		
Grade:			
Date Required:	ASAP		
Salary Range:	Competitive hourly rate		
Number Required:	1		
Location:	HORIBA MIRA Ltd., Nuneaton.		
Contract Type:	Permanent:		Contractor: ☒
Responsible To:	Team Leader – Software & Electrical Engineering		
Subordinates:	None		

Main Purpose of Job

The purpose of this role is the development of embedded software for xEV propulsion and vehicle control systems.

As a Software Project Engineer, you will be supporting the generation of embedded software requirements, implementation and test. This will include full project lifecycle from initial enquiry to delivery.

Key Functions

- Automotive strategy development and implementation, utilising Matlab / Simulink / Stateflow and C language.
- Supporting the generation of system or software level requirements.
- Verification and Validation of controls software.
- Conducting Software / Hardware integration and testing on HiL rigs.

Essential Qualifications	Preferred Qualifications
Relevant engineering degree with a minimum of 2:1 or comparable qualification with relevant experience.	Higher degree (relevant MSc, Eng. D or Ph.D.)

Essential Experience	Preferred Experience
- Matlab/Simulink/Stateflow skills for development of software control strategies and plant models. - Demonstrable experience in working to elements of the software V-Cycle. - Working with requirements and contributing to requirements capture. - Technical knowledge of xEV powertrains. - Understanding of vehicle network protocols (CAN).	- MIL, SIL and HIL verification methods. - Broad understanding of Electrical and Electronic systems. - Embedded Systems Software Engineering - Appreciation of Functional Safety. - Working with configuration management systems. - Proficiency in C programming. - Understanding of vehicle LIN networks.

What is the candidate likely to be doing now?
Performing in an automotive OEM, Tier 1 supplier or other related industry developing control strategies for vehicle applications.

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 and able to execute designated tasks accurately and within timing 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 - Used to working in a team – adopts a collaborative and open working ethos and also demonstrates the ability to perform critical reviews - Be willing to travel and work flexibly: The job is likely to involve periods of 1 to 2 weeks at a time spent overseas approximately. - Have a full UK driving license.