



DRIVING THE FUTURE OF ELECTRIC VEHICLES

We are the world leader of in-wheel motors for passenger cars, light commercial vehicles and future transport solutions.

Protean Electric is an automotive technology firm with over 150 talented people globally. Our mission is to drive sustainable transport through innovation, and we are the imagination behind vehicles that travel further, perform better and use fewer components.

We believe that freedom of ideas, integrity of response, desire to improve, and collaborative thinking drive innovation. Joining Protean means working with talented experts across the organisation who value your ideas, empower you to make a difference, and encourage you to challenge yourself and others.

Senior Software Test Engineer

Farnham, UK

The Role

We are seeking the right individual to join our Software Engineering team.

Main Duties & Responsibilities

The primary responsibility of this role is to perform the Software Qualification of Protean's in-wheel motors software in a HIL environment. This includes the development of test specification, creation of test harnesses, executions of tests and analysis of results. As a member of the software team, the Software Test Engineer will be required to collaborate with other teams to meet the company's goals and targets.

Reporting, Location & Travel

This role reports to the Software Manager and has no direct reports. The role is based in Farnham, Surrey with occasional requirement for national and international travel.

Key Responsibilities

Responsibilities include, although are not limited to the following:

- Write test specifications from systems and software requirements
- Review of software requirements from a testing perspective
- Develop plant models in MATLAB and Simulink to support HIL validation
- Develop automated tests
- Analyse and report test results
- Review work packages from other Software Test Engineers

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- Work according to defined software processes and add contribution to improve these for compliance with ISO26262 and ASPICE

Relevant Skills & Behaviours

We value and measure ourselves against the following 'Best-Self' Behaviours:

- Pioneering
- Driven
- Tenacious
- Collaborative
- High Integrity
- Responsible

Successful candidates should be able to demonstrate the following relevant skills and behaviours:

- Ability to write test specifications from requirements
- Experience in software test case development and automation of tests
- Experience in creation of software test environments based on Hardware in the Loop
- Strong problem-solving skills
- Strong coordination, organisation and communication abilities
- Ability to present technical information
- Ability to self-motivate and work under pressure and time constraints with minimal oversight

Relevant Knowledge & Experience

Candidates should assess their suitability against the following essential and/or desirable relevant knowledge and experience:

Essential:

- Good technical degree in engineering or science
- Fluent in technical English
- Proven experience of test development in industries such as Automotive, Aerospace, Industrial Control or Communications using a V-model verification and validation process
- Knowledge of Hardware in the Loop environments such as dSPACE
- Familiarity with process-driven development, ideally ISO 26262, IEC 61508, DO-178C or similar safety standards
- Experience in automation of testing
- Proven experience in problem solving issues coming out from validation activities
- Reasonable electronics knowledge (understanding schematics, hands on working with electronics)
- Understanding of codes of conduct and ethical working

Desirable:

- Knowledge of programming or scripting languages such as Python
- Experience of electric motors and the associated control systems
- Knowledge of Automotive SPICE and ISO26262
- OEM/Tier 1 experience of software test for vehicle ECUs
- Experience working with high power electric and hybrid powertrains



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Employee Benefits

In return for a rewarding and fulfilling career, all Employees can look forward to receiving a competitive salary, plus a number of additional employee benefits:

- **Core hours:** we offer a flexible approach to working hours, with core hours available to all Employees, requiring them to be in the office between 10:00 and 16:00 each day, from Monday to Friday. This provides Employees with the flexibility to start work, and finish work at a time that is convenient to them providing a little more freedom to take into account the journey to work and family commitments.
- **Discretionary Bonus:** Employees are eligible to receive discretionary bonus payments in connection with meeting certain targets.
- **Life Assurance:** Employees are automatically enrolled into the company's Life Assurance scheme; this provides the sum of four times annual basic salary in the event of death during employment.
- **Pension Scheme:** Employees are automatically enrolled into the Company's Group Personal Pension Scheme, with the company matching contributions from a minimum of 5% up to a maximum of 7%.
- **Private Healthcare:** subject to completion of probation, Employees, their partners and dependents, are able to join the company's private healthcare scheme with BUPA, in addition to an accompanying cash plan with BHSF.
- **Learning & Development:** Employees are encouraged to continue their career development with a variety of training courses and development opportunities available to them.
- **Relocation:** we are able to offer a relocation package to assist Employees and their families when relocating to within a designated distance/duration from the company's offices.

Full details of the Employee Benefits are available upon request, or will be made available on provision of an offer of employment.

Should you wish to apply for this role, please e-mail your CV, covering letter and salary expectations to: ukjobs@proteanelectric.com – please be sure to **quote the full Job Title in the subject line** and read our Privacy Notice.

Thank you for your interest, we wish you every success with your application.

