



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 100 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.

Production Test Development Engineer

Farnham, UK

The Role

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

Main Duties & Responsibilities

This position requires a proactive engineer to specify and implement automated production tests of all the electronic assemblies used in Protean's In Wheel Motor. Electronic assemblies include digital, analogue and high power 3 phase inverters.

The role also involves setting the overall test strategy, including requirements and procedures to be generated and implemented for high volume production within Protean facilities and third party vendors, as required.

Reporting, Location & Travel

This role reports to the Manufacturing Engineering Team Leader and is based in Farnham, Surrey with an occasional requirement for national and international travel, primarily to China/Europe.

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Key Responsibilities

Responsibilities include, although are not limited to the following:

- Generate an overall Test Strategy for high volume production
- Develop test requirements and procedures for automated test systems to be developed and installed in the supply chain
- Manage internal Protean test development
- Select and provide technical assistance and programme management of third party ATE development
- Manage data in relation to production yields and failures with Supplier Quality
- Ensure testing compliance to Protean Quality Systems
- Work with design teams in the UK and effectively communicate with the Manufacturing Engineering team in China with regard to high volume testing

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:

- Able to drive ideas and changes
- Aptitude and intelligence with a can do attitude
- Clear decision making
- Pragmatic with problem solving skills
- Strong verbal and written communication skills
- Project management and planning

Relevant Knowledge & Experience

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

Essential:

- Proven history of high volume automated electronics testing
- Excellent knowledge of Analogue, Digital and Power Electronics and the functional testing of
- Working knowledge of LabVIEW/TestStand or similar test automation software
- Track record working with suppliers, specifying, approving, developing and commissioning machines
- Good command of English with demonstrable oral, written and reading skills

Desirable:

- DFM and DFT analysis and feedback to design teams
- Integrating findings from FEA/DFMEA into test strategy
- Knowledge of Mechanical, Power Electronic and Software disciplines
- IT software, Windows, Office, MRP systems, internal software tools
- Ability to read and interpret drawings and electronics and mechanical CAD data
- Ability to find and document failures and non-conformances and recommend solutions
- Understanding of Engineering Change Control

