



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 around 150 talented people globally. Our purpose is to make electric vehicles better, for the people who use them and for a sustainable world.

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 Reliability Engineer

Farnham, UK

The Role

We are passionate about making in-wheel motors a standard automotive technology, used by customers worldwide. We believe in our product and we have years of experience in designing for durability. We are now seeking the right individual to expand our Functional Safety and Reliability team.

Main Duties & Responsibilities

Using their experience, the Senior Reliability Engineer will work with the Functional Safety and Reliability Manager to develop a pathway to deepen the understanding and confidence of the reliability of our in-wheel motor. Responsible for using reliability as a tool to advise our warranty strategies, through data gathering and analysis. The role will understand the customer's reliability expectations of our product and influence design, devise test strategies and deliver data to demonstrate that we meet these requirements.

Reporting, Location & Travel

This role reports to Functional Safety and Reliability Manager.

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:

- Support development of Reliability Strategy and Planning
- Develop, coordinate, and conduct technical reliability studies, to support product development using reliability predictions
- Run reliability analysis using tools such as: Block diagram, Quantitative Fault Tree Analysis, FMECA etc.
- Provide a set of reliability design and process guidelines based on in-field findings, and maintain a knowledge base of reliability lessons learned to enable continuous improvement.
- Define reliability test specifications to evaluate the overall reliability of the system

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- Monitor failures in the field and lead FRACAS
- Use failure in the field to measure operational reliability and identify design improvements
- Use reliability tools to provide warranty modelling and advise the business accordingly
- Understand customer reliability expectations and use these to set reliability goals and plans for customer projects
- The development and maintenance of a meaningful set of KPIs for reliability performance throughout projects and report against progress

Relevant Skills & Competencies

We welcome and encourage behaviours in line with our 'Values in Practice':

- **Will to Win:** we succeed by delivering to customers; on time, on quality and on cost
- **Pioneering:** we are passionate about the technology
- **Courageous:** we face our challenges
- **Working Together:** we can rely on each other and others can rely on us
- **Personally Responsible:** we do what needs doing, when it needs doing
- **With Integrity:** we are honest, open and respectful

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

- Strong communication skills, able to work as a part of a team, across functions and countries
- Ability present to all-levels of the business and even our customers
- A master-of-data analysis with a good grasp of common pitfalls of data and confidence levels
- An eye for detail, but also able to look at the work in context of our business
- Passionate about the importance of understanding reliability
- Planning, priority setting, action orientation, decision making, customer focus and problem solving

Relevant Knowledge & Experience

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

Essential:

- At least 5 years' experience in Automotive reliability preferably or domain with electromechanical complex systems
- Broad knowledge of typical reliability analysis tools such as FMEA, FMECA, FTA, FRACAS etc
- Experience in associating reliability analysis to enable warranty modelling
- Experienced in using APIS, Reliability Workbench, Minitab or similar analysis tools
- Knowledge/experience of reliability requirements of an OEM, specifically for powertrain systems
- A degree in an Engineering discipline

Desirable:

- Experience in providing training in reliability tools to colleagues or similar

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 in the office, 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.
- **Performance Bonus:** Employees are eligible to receive a discretionary bonus of up to 15% of annual salary; this is paid annually and is subject to the company meeting its agreed performance targets.



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- 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, including the offer of learning Mandarin*.
- 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.

*(please note that the items marked with an asterisk * are currently suspended as a result of the ongoing pandemic)*

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.

