



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.

Functional Safety Engineer

Farnham, UK

The Role

We are seeking the right individual to join our Engineering Quality and Functional Safety team.

Main Duties & Responsibilities

The primary responsibility of this role is to support the functional safety activities relating to the development of Protean's products. This includes analysis of requirements from top level Safety Goals to lower level Software and Hardware Safety Requirements. As a member of the Engineering Quality and Functional Safety team, the Functional Safety Engineer will collaborate cross-functionally with domain experts to ensure delivery of the company's goals and targets.

Reporting, Location & Travel

This role reports to the Engineering Quality and Functional Safety Team Leader.

The role is based in Farnham, Surrey with occasional requirement for some national and international travel, primarily to China.

Key Responsibilities

Responsibilities include, although are not limited to the following:

- Supporting the Systems, Software and Hardware Teams in defining their architectures
- Supporting the development of safety requirements
- Creation and review of relevant safety work products including specifications and reports
- Performing traceability analysis between different levels of the design

Cont/...

Key Responsibilities (Cont/...)

- Supporting Diagnostic Coverage evaluation
- Supporting verification and testing activities for Systems, Software and Hardware work products
- Conducting inductive and deductive Safety Analysis (including FMEA, FTA and DFA) at Systems, Software and Hardware Architecture levels

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:

- Excellent interpersonal skills
- A good communicator
- Strong problem solving skills
- Attention to detail
- Drive for continuous improvement
- Innovative, flexible and adaptable

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
- Experience of systems design for embedded systems using a formal development process
- Experience of hardware and software development for safety related systems;
- Familiarity with IEC 61508, ISO 26262, DO178 or similar safety standards
- Familiarity with Model Based Systems Engineering and SysML
- Strong knowledge of Safety Analysis methods : Fault Tree Analysis (FTA), Failure Modes and Effects Analysis (FMEA), Dependent Failure Analysis (DFA)

Desirable:

- Experience with other relevant standards including ISO 9001, A-SPICE
- Electric motor and drive specific design and manufacture
- Experience in automotive Tier 1 and/or Tier 2 industry
- Experience in managing and maintenance of JIRA & Confluence projects and content
- Familiarity with the use of Dependent Failure Analysis (DFA) to ensure Freedom from Interference
- Familiarity with APIS and Isograph Reliability Workbench FT+
- Familiarity with requirements and configuration management



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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 a discretionary bonus of up to 15% of annual salary; this is paid annually and is subject to meeting set agreed 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, 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.

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.

