



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.

(Senior) Control Systems Engineer

Farnham, UK

The Role

We are seeking the right individual to join our Vehicle Controls team. The role will be appointed as Engineer or Senior Engineer depending on background and experience.

Main Duties & Responsibilities

The Vehicle Controls Team is responsible for developing vehicle-level control systems which allow the unique capabilities of our in wheel motor technology to be demonstrated and tested to maximum effect, both in internal and customer funded vehicle projects. This currently includes development of torque vectoring strategies, traction control and ABS, with full stability control and brake-by-wire integration planned for the future.

Control system development will start in simulation and final testing will take place in vehicles developed and built by us. As (Senior) Control Systems Engineer you will take an active role in specifying, developing and supporting these systems. You will also be involved in specifying and commissioning low and high voltage electrical system architectures on our (internal and customer) vehicles.

Reporting, Location & Travel

This role reports to the Vehicle Engineering & Controls Manager and is based in Farnham, Surrey with an occasional requirement for national and international travel, primarily to Europe, China and the US.

Cont/...

Key Responsibilities

Responsibilities include, although are not limited to the following:

- Designing, verifying and validating controls systems
- Electric Vehicle System architecture design and project management
- Developing software in Simulink, integration and testing
- Verifying and validating of the software on HIL, dyno and in the vehicle
- Delivering, reporting and presenting of work progress
- Collaborating with others to plan, design, develop and test
- Supporting in vehicle system integration
- Analysing and resolving technical problems

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 produce and understand technical documentation
- Open mind and can-do attitude
- Proactive
- Communications and customer liaison
- Hands-on approach
- Team and goal oriented

Relevant Knowledge & Experience

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

Essential:

- Technical degree in software, electronics, controls or automotive engineering
- Automotive experience
- Experience of CAN based communications
- Understanding Electric Vehicles and challenges involved with their development
- MATLAB/Simulink development environment
- Hands-on experience of vehicle electrical systems
- Experience with vehicle-level control systems design, implementation and calibration
- Fluent English speaker

Desirable:

- Electrical system (harness) design process

Cont/...



Cont/...

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.

