



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 Electronics Engineer

Farnham, UK

The Role

We are seeking the right individual to join our Electronics team.

Main Duties & Responsibilities

The role of Senior Electronics Engineer is key in the development of Protean's in-wheel motor range throughout the entire lifecycle of the products. Electronics Engineers are responsible for defining and designing the electronics and verifying that the electronics design meets the requirements set out by internal and external customers and working with other teams to ensure product delivery to time, quality and cost targets.

Reporting, Location & Travel

This role reports to the Electronics Manager and is based out of our Farnham Office in Surrey with some flexibility for home working and an occasional requirement for national and international travel, including to China.

Key Responsibilities

Responsibilities include, although are not limited to the following:

- Full life cycle design from initial concept through to productionisation
- Digital and analogue electronics design
- Sensor and sensor conditioning design and development
- Simulation, calculation and circuit design
- Writing design specifications and reports

Cont/...

Key Responsibilities Cont/...

- Driving validation and verification activities
- Work in accordance with Protean's Electronics Team Processes as well as Development Process and Business Management Process
- Ensuring design adhere to functional safety requirements
- Supporting manufacturing activities in UK and China

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:

- Pragmatic problem solving
- Attention to detail
- Innovative lateral thinker
- Hands on
- Strong communicator
- Drive for continuous improvement

Relevant Knowledge & Experience

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

Essential:

- Good degree in Electronic Engineering or other relevant subject.
- Strong experience in simulation, design, analysis and test with embedded processors, sensors and interfacing electronics
- Multiple journeys through complete development lifecycles
- Design for EMC; analysing and rectifying compliance issues
- Design for high volume Manufacture/Test

Desirable:

1. Design for functional safety to ISO26262 or similar
2. Experience in the automotive industry and automotive standards/legislation
3. Familiarity with Altium Designer
4. Calculation of component stress & de-rating and reliability estimation
5. Design, development and test of SMPS
6. Thermal modelling and simulation
7. Knowledge of communications buses, i.e. CAN, SPI, I2C
8. Strong working knowledge of Electrical Safety Standards. i.e BS EN60664, LV124
9. Familiarity with Infineon Aurix microprocessors and AUTOSAR
10. Experience of interfacing with high voltage power electronics
11. Using and applying DFMEA



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 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.
- **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.

