



**PROTEAN**

## **Principal Power Electronics Engineer**

Farnham, UK

Protean Electric is an automotive technology firm. Our mission is to drive sustainable transport through innovation, and we are looking for the best people to join us and help stay ahead of the competition.

Working with us is your opportunity to become an expert in your field and to join us in setting world-class standards in design and production quality. Diversity and inclusion are fundamental to our approach. We know that teams who share one vision whilst drawing from a range of diverse backgrounds and experiences are the most innovative.

Working here means enjoying a fast paced, dynamic and collaborative environment. Our challenges require innovative solutions and provide a unique opportunity to shine and grow with the company.

We value and measure ourselves against these “Best Self” behaviours:

- Pioneering
- Driven
- Tenacious
- Collaborative
- High Integrity
- Responsible

If you decide to apply for the role please email your CV, cover letter and salary expectations to:

[ukjobs@proteanelectric.com](mailto:ukjobs@proteanelectric.com) It is important that you **quote the full Job Title in the subject line.**

Thanks for taking an interest in joining us and please see the specific details below:

### **The Role**

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

### **Main Duties & Responsibilities**

Reporting to the Electronics Manager, the position will take a lead engineering role within the design, development and testing of inverters for our in-wheel motor technology.

Responsibilities include leading the inverter design through the complete design cycle and into production including simulation, design, prototype, build, test, and producing the necessary reports & supporting documentation. As a lead engineer you will manage electronics engineers on your project to meet your cost, quality and time objectives.

Being a team player within the electronics team the position will work closely with other operations and engineering functions to ensure delivery of set objectives.

## Key Responsibilities

Key responsibilities for the role include, although are not limited to, the following:

- Lead inverter design and development of the electronics within a project
- Project planning of electronics resource and time, and report project status into management
- Co-ordination of electronics engineers working within your project
- Schematic design capture in DXdesigner
- Simulation, calculation and circuit design
- Write design specifications and reports
- Ensuring the electronics design meets the hardware requirement specification
- Attend and chair reviews, including Design, FMEAs and FTAs
- Electrical and Electronic design of power electronics development test equipment
- Verification, characterisation and validation testing of the electronics
- Write characterisation and validations test specifications and test reports
- Work in accordance with Protean's Electronics Team Processes as well as Development Process and Business Management Process
- Support manufacturing activities in UK and China

Relevant Skills	Relevant Knowledge & Experience
<ul style="list-style-type: none"> <li>• Computer literate</li> <li>• Highly organized with the ability to stay focused</li> <li>• Excellent written and oral communication skills</li> <li>• Self-motivated with the ability to work independently with little direction or supervision and in a team environment</li> <li>• Pragmatic and Problem solving</li> <li>• Innovative lateral thinker</li> <li>• Proactive Hands on approach</li> <li>• Team Player with attention to detail</li> </ul>	<ul style="list-style-type: none"> <li>• Degree in Electrical and Electronic Engineering</li> <li>• Experience of motor drive inverter R&amp;D</li> <li>• Lead engineer experience</li> <li>• PCB schematic/layout design in DxDesigner</li> <li>• Sub 50W isolating multi-rail PSU/SMPS design experience</li> <li>• 10kW to 100kW LV inverter design experience</li> <li>• Experienced in design of feedback and driver circuits design within an inverter</li> <li>• Experience of using Mentor Graphics DxDesigner and PADS</li> <li>• Familiarity with inverters for EV, HEV</li> <li>• Familiarity of automotive and LV standards</li> <li>• Working in an ISO9001 environment.</li> <li>• Working in an automotive quality environment</li> <li>• Experience in an Automotive or High Tech Industry</li> </ul>