



Job Vacancy:

Principal Power Electronics Engineer - Rail

Gateshead, UK

The Company:

Turbo Power Systems Limited is an established UK Company in Gateshead, with an enviable history specialising in the design and manufacture of a wide range of electrical machines and power electronic products for multiple applications in the Energy, Industrial, Transportation and Defence markets. TPS offer a customisable and diversified product range that includes Power conversion equipment for transportation platforms, high speed motors for air and gas compression, hermetic motors on magnetic bearings for HVAC, generator systems for distributed generation, energy recovery and power delivery

The Role:

This challenging high profile role combines the need for a leader of a multi skilled power electronics design team in the technical execution of one or more projects. You will provide a technical interface between the Company and the Customer, delivering a product which is technically compliant to the requirements of the customer within their prescribed lead time and budget. You will have demonstrable experience in design and test of Power Electronic Converters (AC: AC, DC: DC, DC: AC), Motor Drives or Grid Tied Converters, and be able to demonstrate your experience in using simulation tools including Matlab/Simulink. You will also be required to work to a customer agreed schedule, working closely with project managers to define, control and monitor the technical work packages allocated to the delivery team. You will need to schedule and chair design reviews and ensure product compliance with technical product requirements, relevant industry standards & safety requirements, risk mitigation control plans and cost targets.

Reporting to the Engineering Manager - Rail, this role provides an ideal opportunity for someone to apply their experience, knowledge and expertise in a relevant market sector from the design phase through to delivery. You will have detailed knowledge of power electronic systems design including Analogue and Systems Engineering, Power Electronics, Digital Electronics, System Simulation, Embedded Systems and Control Engineering, and knowledge of EMC standards and mitigation through design. Knowledge of microprocessor control, software development, thermal design and specification of electromagnetic assemblies would prove advantageous.

The successful candidate will be degree qualified or above in Power Systems Engineering and disciplines covering control techniques, having proven managerial and leadership skills, preferably in the Rail Sector.

Job Types: Full-time, Permanent

Benefits:

- Company Pension
- Life Insurance

Schedule: Monday to Friday

Work remotely: No

Apply at: www.turbopowersystems.com/careers-tps/