

Job Description

Position – Electrical Engineer

Reporting to - Lead Engineer (Electrical Engineering)

Purpose / Role - Primarily, the role will be to design, develop, test, and support electrical power and control systems, along with associated documentation, for our range of existing and future products.

Key Aims and Objectives –

Participation in the development of new and existing power and control system designs with the aim of reducing complexity and cost, improving maintainability, and increasing performance with a view to maintaining market lead with focus placed upon delivering quality products to required specifications.

Responsibilities

- Involvement in full product life cycle, including system specification, design, build, test, commissioning, documentation, customer acceptance and field support
- To provide expertise in power and control system design, implementation, and systems integration
- Development, test and implementation of new power and control systems to fulfil requirements and maintain market lead
- Need to understand documents outlining system and equipment specs/functionality
- Design and production of electrical & control system schematics as required
- Creation of Functional Design Specifications in conjunction with other Engineers (Mechanical, Hydraulic, Software, Electrical/Electronic)
- Support manufacturing team for system builds and commissioning on projects
- Creation of customer training material and delivery
- Machine Risk Assessment and design of safe equipment
- FMEA/FMECA analysis
- Design reviews
- Project reviews
- Checking of drawings as part of design quality procedures
- Creating and updating bills of materials
- Maintain and update parts database
- Production of Commissioning & Factory Acceptance Testing documentation
- Production of User Documentation
- Follow company quality procedures
- Ensure all relevant technical standards and specifications are adhered to for full technical compliance without supervision outside of departmental guidelines.
- Liaise with Mechanical, Hydraulic, Software, Electrical/Electronic, and Project Engineers to ensure correct interfacing between different aspects of products

Allied Occasional Duties

- Commissioning Support
- Research and development activities
- Involved in working away/abroad/offshore
- Provide support for existing systems
- Provide technical support as required to sales and service teams

Qualifications & Experience

- BEng (Hons) Degree in Electrical Engineering (Minimum 2nd class)
- 3-5 years of relevant experience

Skills & Competencies

- Expertise in motors, starters, and drives
- Electrical power distribution systems design
- 1ph & 3ph systems
- Fault calculations
- Sizing and selection of power system components (Motors, Drives, Transformers, Switchgear etc)
- Electrical safety systems
- Control & Instrumentation systems and devices
- Understanding/knowledge of electrical standards
- Distributed control systems design
- Experience of machine control systems / automation
- Practical experience/background essential
- Autodesk AutoCAD

Additional Desirable Technical Competencies & Experience

- Subsea/Marine engineering design
- High Voltage systems design
- HVAC systems
- Familiarity with Electrical DCS / SCADA systems
- Ethernet, MODBUS, RS485 and RS232 communications
- Fibre optics
- Understanding of hydraulic schematics
- Autodesk Inventor (or similar)
- Experience of Autodesk AutoCAD Electrical

Key Internal Interfaces

- Project Managers, Engineers (Electrical, Mechanical, Hydraulic, Software, Project), Production, Commissioning, Customer Support, Sales, Procurement.



The Person

- Professional passion for quality
- Positive and proactive approach to get the job done
- Flexible attitude to working additional hours when required
- Able to multi-task and prioritise work to planned schedules
- Must be able to work under pressure and to tight deadlines
- Good communication skills, both verbal and written
- Good team player
- Must have an enthusiasm for engineering
- Must be personable and adaptable
- Customer focussed

If you are hoping to join a great team and interested in the above role, please use [our CV submission link](#) on the website.