

## **JOB DESCRIPTION**

### **Job Description**

**Number:** 5

**Job Title:** Lead Electrical/Controls Engineer  
**Reports To:** Head of Engineering  
**Based:** Swindon  
**Responsible For (Appointments under Direct Control of this Job):** Electrical/Control Design Engineers. ≈4-6  
**External Contacts** Suppliers, Clients

### **Purpose:**

- Formulation and Implementation of Company Strategy for the automation of Tetronics Plasma Systems.

### **Key Responsibilities and Accountabilities**

- Concept design and functional specification of automation, control and instrumentation systems, including electrical & pneumatic systems, manipulators, water cooling systems, and programmable logic systems.
- Implementation of European Directives and Standards for CE compliance.
- Software and hardware design specification and production of schematics and GA drawings.
- Production of test documents, and factory acceptance of designs.
- Commissioning of plant (and possible installation) where appropriate.
- Provide EC&I support to the mechanical design team.
- Provide EC&I support for hazard analysis activities.
- Provide technical support for proposal writing.
- Writing / contributing to Maintenance, Operational and Installation Manuals.
- Project Management of assigned projects and Work-Packages.

### **Plus:**

- Forecast and allocation of design tasks to electrical/control engineers with due regard to their skills, experience and workload.
- Enforce full procedural compliance for engineering design and drawing production and control.
- Ensure compliance with company QHSE.
- Promote “best practice” to the design team in the context of task organisation and record keeping.
- Organise regular audits of drawings and design files.
- Continuously develop, implement and improve design procedures, and upgrades to site equipment
- Plan and provide internal or external training for team as required.
-

## **Role Requirements:**

### **Qualifications/Education**

- Formal training in Electrical/Electronic & Mechanical Engineering or Mechatronics.

### **Experience**

- Industrial experience in design and implementation of turnkey automation systems, preferably using Rockwell / Mitsubishi systems.
- Must have demonstrable experience with control system design, providing evidence of appropriate calculations, and be qualified to HNC or Degree level in Electrical / Control Engineering.
- Must also have experience of 2D CAD, ideally with an electrical CAD system (AutoCAD Electrical). Experience with PLC and SCADA design is advantageous but not essential.
- Should also have experience with European Directives and standards, and hardware / software safety systems.
- High temperature industry experience in a heavy industrial environment.

### **Skills**

- Knowledge of industrial control systems theory and application.
- You must have good working knowledge of Microsoft Software (Word, Excel, Outlook), and have excellent interpersonal and communication skills (written and verbal).

### **Attributes**

- Ability to achieve set goals when working under pressure with limited resources.
- Ability to manage a small team.
- Willingness to travel overseas.
- You will have the ability to work both independently and as part of a multi-disciplinary team, and must be self-motivated and driven to achieve set goals when working under pressure.
- Travelling and working at customers' and suppliers' sites is an integral part of the role and the ideal candidate would be able to travel worldwide.

*As the needs of the business change this role will change accordingly, therefore this document should be viewed as guidelines which are subject to change. You will, from time to time, be required to undertake other activities of a similar nature that fall within your capabilities as directed by management.*