

## JOB DESCRIPTION

**Company Name:** Light Mechanics (<https://www.lightmech.com/>)

**Job Role:** Manager - Electrical Assembly (SPM - Special Purpose Machine)

**Work Experience:** 7 years with Engineering degree or 10+ years with Diploma degree

**Location:** Bengaluru

**Employment Type:** Full Time, Permanent

**Role Category:** Engineering & Manufacturing

**Education:** Diploma/ Engineering Degree in Electrical/Electronic Engineering or equivalent

### Job Purpose

To lead and manage the electrical and automation engineering function for Special Purpose Machines (SPM), ensuring robust electrical design, panel build, wiring, testing, commissioning, and compliance with project, quality, and safety requirements.

### Key Responsibilities

#### Team Leadership & Resource Management

- Lead, mentor, and develop electrical engineers, programmers, and technicians.
- Allocate resources, review technical work, and monitor team performance.
- Conduct training on new technologies, standards, and best practices.
- Ensure effective communication within the team and with cross-functional stakeholders for smooth project execution.

#### Project Management & Coordination

- Plan electrical project timelines and track milestones.
- Coordinate with Design, Mechanical, Service, Purchase, and Vendors.
- Manage electrical project costs and material planning.

#### Continuous Improvement

- Implement standardization, modular designs, and cost-reduction initiatives.
- Analyse field feedback and drive design improvements for reliability.
- Support service teams for complex breakdowns and retrofits.

#### Electrical & Automation Engineering

- Lead electrical design and execution for SPM projects from concept to commissioning.
- Ensure preparation and approval of electrical schematics, panel layouts, cable schedules,

and BOMs.

- Select and standardize electrical components such as PLCs, HMIs, drives, servos, sensors, safety devices, and panels.
- Ensure compliance with applicable electrical standards and customer specifications.
- Support debugging, testing, FAT, SAT, and machine trials.
- Support in interlocks, safety logic, and automation architecture.

### **Panel Manufacturing & Wiring**

- Supervise panel assembly, shop-floor wiring, and machine interconnections.
- Ensure proper labelling, earthing, routing, and documentation as per standards.
- Coordinate with mechanical and assembly teams for seamless integration.

### **Quality, Safety & Compliance**

- Ensure compliance with electrical safety standards (IEC, IS, CE, UL as applicable).
- Drive electrical audits, risk assessments, and safety validations. Implement and monitor 5S, and ISO requirements.

### **Key Skills & Competencies**

- Strong leadership, problem-solving, and cross-functional coordination skills
- Good communication and stakeholder management ability
- Ability to evaluate Objectives and Key Results (OKRs) of team members and drive performance alignment
- Strong expertise in SPM electrical & automation systems
- Hands-on knowledge of PLCs, HMIs, VFDs, servo drives, motion control, and safety PLCs
- Proficiency in electrical design tools (EPLAN / AutoCAD Electrical)
- Knowledge of industrial communication protocols (Profinet, Ethernet/IP, Modbus, Profibus)
- Strong documentation practices – proper documentation of electrical work, records, and reports