



# Material Sciences Corporation

Engineered Materials & Solutions Group

## POSITION DESCRIPTION

**Title:** Walbridge Electrical Engineer                      **Grade:** 11  
**Location:** Walbridge    **Dept:** Engineering  
**Reports To:** Walbridge Operations Manager

**Employees Supervised:** 0                      (Directly)  
0    (Indirectly)

**Other Metrics:**

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### **POSITION PURPOSE:**

Analyzes and troubleshoots all electrical process equipment. Responsible for all facets of instrumentation. Maintains and monitors programmable controllers and drive systems, performs HMI maintenance and updating, and assists or coordinates various electrical maintenance and capital projects.

### **ESSENTIAL FUNCTIONS:**

- Analyzes and troubleshoots electrical equipment problems when necessary.
- Responsible for repair, calibration, and maintenance of all instrumentation, including such units as the RSI, Hydrogen Analyzer, Ircon, ACT Thickness Gauge, etc.
- Assures integrity of programmable controllers and drive systems.
- Assures integrity of HMI systems such as RSView32, Panelview, Prophecy, Visual Basic and Factorylink, including troubleshooting and improvements.
- Provides user and maintenance training on all electrical equipment.
- Responsible for long range strategic planning and development towards improved electrical equipment operations.
- Coordinates the design, procurement, and installation of new equipment or modifications utilizing in house maintenance and outside contractors.
- Assists and supports the management and improvement of the production efficiency from a power utilization standpoint.
- Evaluates monthly utility charges and works to maintain / drive down utility contract costs.
- Performs special projects and other duties as directed.

**NON-ESSENTIAL FUNCTIONS:**

- Ability to communicate with all levels of the organization, customers, and vendors.

**KEY POSITION ABILITIES:**

- Education BSEE (Bachelor of Science Electrical Engineering)
- Good verbal and written communication skills
- Power Distribution Systems and Control Systems knowledge
- Knowledge of design and troubleshooting AC/DC drive systems, plc's, hydraulics, and pneumatics.
- Experience with Microsoft Office and Autocad.
- Project Management awareness
- Participation in the APQP and FMEA processes
- Assist in root cause analysis of line problems.
- Manage multiple projects at the same time to maximize efficiency and take advantage of gaps in project timelines
- Comply with project procedure, maintenance manual procedure, training procedure, general engineering specifications, electrical specifications and all local, state and national codes and regulations.

**Prepared by:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Direct Supervisor/Manager:** \_\_\_\_\_

**Employee:** \_\_\_\_\_

**Multiple Incumbents:** \_\_\_\_\_

**Next Level Supervisor/Manager:** \_\_\_\_\_

**Human Resources:** \_\_\_\_\_