

Job Title - Electrical Engineer

Department – Facilities

Reports to (title) – Facilities Manager

1. Job summary:

Responsibilities with building utilities, systems, and controls to support the operation of a semiconductor manufacturing facility. Participates in review of system design, maintenance and operation of all Facilities related equipment. Supports efforts with manufacturing equipment including water plants, chillers, boilers, cooling water systems, compressed air, specialty gases, chemicals, and HVAC related equipment. Performs necessary tasks to maintain regulatory requirements of federal, state, and local codes; includes gas scrubber and wastewater operations, and storm water emissions. Interface with and manage service providers and contractors as required to complete assigned projects.

2. Primary Duties and Responsibilities:

- Oversee site operation of facility electrical systems and components.
- Maintain industrial and safety standards as well as federal, state and local codes.
- Oversee implementation of electrical maintenance activities.
- Develop and maintain PM program activities for facilities electrical equipment.
- Advise on new equipment design and installation.
- Modification of existing electrical systems to meet new equipment needs and demands.
- Lead contractor activities. Develop and maintain working relationships with service providers.
- Special projects as assigned.

3. Education and Experience Profile:

- Bachelor of Science in Electrical Engineering from an accredited university, or equivalent knowledge/experience in this field
- 4+ years of experience preferred.
- Experience with NFPA, IECE, IEEE and LOTO.

4. Required Skills:

- Proficiency with Microsoft office
- Knowledge of building codes and regulatory requirements.
- Knowledge of utility systems common of a semiconductor manufacturing facility.
- Administrative and technical leadership skills with ability to interface well with other departments.
- Strong interpersonal, written communication and verbal communication skills.
- Experience with building maintenance management systems (procedures, PM, work orders, and work documentation).
- Troubleshooting utility system operational issues, perform root cause analysis, recommend corrective measures to management.

- Knowledge of low/medium/high voltage switchgear operation & repair
- Power electrical trouble shooting
- Developing and interpreting electrical diagrams
- Arc flash testing and activities
- Knowledge of UPS specification and operation
- Knowledge of electrical PM maintenance
- Experience with management of contractors
- Problem solving skills.

Preferred skills:

- Familiarity with AutoCAD, Bluebeam, BIM
- Interpersonal team environment skills
- Experience with operation of typical facilities support equipment (electric motors, chillers, boilers, air compressors, exhaust fans, vacuum pumps, scrubber towers, etc.)
- Controls or SCADA system experience
- Perform 8D, 5 Why and FMEA analysis.
- Exposure to Process Control Systems for improved reliability and performance
- Cleanroom experience
- Experience with a continuous manufacturing environment
- Switchyard operation

5. Work Environment:

- Working conditions vary between office, industrial, warehouse, cleanroom, and outdoor settings.
- Use of company provided PPE dependent on working environment is required.