**Electrical and Instrumentation Technician**

**Job Responsibilities:**

The Electrical and Instrumentation Technician will perform tasks related to the installation, maintenance, operation, inspection, and testing of a variety of control systems equipment including, but not limited to, electrical, electronic, pneumatic, computer, microprocessor and variable frequency drive, electro-mechanical, digital, telemetry, and analog as related to food processing. This will include BMS (Building Management System) of the plant.

**Job Duties:**

* Completes routine, preventive and emergency maintenance on all process equipment which may include analog, electrical, electronic and pneumatic equipment as well as networks used to collect, process, transmit, receive and record data, and to regulate the operation of the final control elements in milk and syrup production processes
* Performs periodic inspections, testing, adjustments, calibrations and servicing activities necessary to assure the proper operation of process instrumentation and control systems
* Participates in the performance of periodic plant operational integrity and safety to verify the proper operation of process instrumentation, chart recorder, inline monitoring instruments and digital instruments, protective monitoring systems, and computerized control system/PLC, fault detection and failover functions
* Executes operational systems tests and fault diagnostics to identify and correct electrical, pneumatic and electric analog and computer system failures
* Employs computer system diagnostic programs, computer control console switches and indicators, and logic analyzers to locate and replace defective circuit boards and modules in computers and computer peripherals, and repairs digital interfaces
* Completes functional tests to identify and correct telemetry system failures
* Performs acceptance tests of new equipment and inspects the installation of equipment and systems for conformance with plans and specifications, especially local regulatory requirements, and checks original design work required to implement analog and digital system modifications
* Prepares new, or modifies existing operating and maintenance procedures if necessary
* Orders supplies/spare parts and prepare maintenance service reports to use, maintain, and repair electrical, electronic, hydraulic and pneumatic test instruments
* Performs specialized staff work related to control systems
* May train production employees and other technical personnel in the maintenance of control systems

**Qualifications / Skills:**

Some knowledge of:

* Analog and digital system fault diagnostic techniques and procedures
* Principles underlying the construction and use of scientific instruments
* Electronic and electrical low voltage circuits
* Methods, practices and equipment used in maintaining, repairing, testing and adjusting electro- mechanical, pneumatic, electronic and other types of recording, control, and measuring instruments
* Applicable safety practices
* Reading and interpreting analog equipment schematics, analog system network diagrams, plans, blueprints, and electrical wiring diagrams
* Reading and interpreting recording charts, gauges, and other instruments
* Learning the operation of special purpose scientific measuring devices and correct malfunctions and sources of error
* Working with hand tools and test instruments
* Working and communicating with operations and maintenance personnel
* Keeping records, presenting data and preparing reports
* Responding to emergency calls
* Working while standing on ladders
* Standing on platforms elevated over twenty (20) feet above ground
* Lifting 50 pounds
* Working outside in all weather conditions
* Working in heavy traffic
* Distinguishing colors used in electric wiring color-coding
* Establishing priorities and meet deadlines

**Education / Experience:**

* Two (2) years of experience in the operation, maintenance, and repair of industrial instrumentation, control or communication system components involving the application of physical and electronic principles
* At least 6-months to one (1) year of the required experience must have involved the maintenance of digital equipment
* Any combination of education and experience which would provide the required knowledge and abilities unless otherwise specified. Typically an AS technology degree in instrumentation, computers, or electronics, or 24 college level semester units in instrumentation, computers or electronics equivalent to a technical / vocational course
* Certification from the California Instrumentation/Electrical highly desirable

**Special Requirements:**

* Must possess a valid California class C driver’s license

**Special Working Conditions:**

* Exposure to variable temperatures and weather conditions; heights, such as working while standing on a ladder and electrical hazards.

**Other Special Requirements:**

* Available to work a flexible schedule including weekends, nights, holidays and on an “as needed” basis