

SAN MIGUEL ELECTRIC COOPERATIVE

POSITION: INSTRUMENTATION TECHNICIAN CLASS A

SUMMARY

The Instrumental Technician position is responsible for the following: repair, adjust, and calibrate equipment of steam-generating plant; maintain continuous emission system; inspect, test, adjust, and repair electronic, mechanical, and pneumatic instruments; and perform other duties as required.

ESSENTIAL DUTIES AND RESPONSIBILITIES include the following. Other duties may be assigned.

- Maintains, calibrates, programs, and monitors Data Acquisition System (DAS), Digital Electro-Hydraulic (DEH), Digital Control System (DCS), computers, environmental analyzers and equipment, transmitters, electronic equipment, lab analyzers, sensor loops, solenoids, transducers, and controllers.
- Records calibration data.
- Prepares schematic drawings, sketches, and reports to reflect changes made in instruments, circuits, and systems.
- Conducts environmental regulatory tests and prepares reports.
- Inspects meters, indicators, and gauges to detect abnormal fluctuations.
- Tests accuracy of flowmeters, pressure gauges, temperature indicators, controllers, radiation counters or detectors, and other recording, indicating or controlling instruments to locate defective components in system.
- Uses test equipment such as pressure gauges, mercury manometers, potentiometers, pulse and signal generators, oscilloscopes, transistor curve tracers, ammeters, voltmeters, and wattmeters.
- Traces out and tests electronic solid state and vacuum tube circuitry and components to locate defective parts in analog and digital, protection, or radiation monitoring systems, using test equipment, schematics, and manuals.
- Removes defective instruments from system, and decontaminates, disassembles, and cleans instruments.
- Lubricates instruments and replaces defective wiring and tubing.
- Interprets maintenance and repair manuals.
- Repairs, replaces, or rebuilds solenoids.
- Maintains burner levels (scanners).
- May develop programs for Process Logic Controller (PLC) operations.
- Provides and maintains safe and clean work area.
- Performs on-call duties for seven-day periods.
- May assign and review work of Class B Technicians in absence of supervisor.

REQUIRED EDUCATION/EXPERIENCE

Minimum Associate Degree in Instrument Technology and 5years in related field. Power plant experience preferred

KNOWLEDGE, SKILLS, and ABILITIES

- Instrumentation and electrical equipment and control processes.
- Ability to operate instrumentation equipment and interpret test results; reason through complex problems under pressure; use power and hand tools; operate heavy equipment; use safety gear and equipment; operate personal computer in LAN environment; write and use plant-specific software programs; operate standard word processing, spreadsheet, database software; and operate standard office equipment.

PHYSICAL DEMANDS

- Ability to exert moderate physical effort including climbing, balancing, stooping, kneeling, crouching, crawling, lifting, carrying, pushing, and/or pulling of moderately heavy objects and materials.
- Ability to work in confined spaces, such as but not limited to generators, transformers, breakers, tanks, wire vaults, scrubber modules, boiler, precipitator, vessels, etc.
- Ability to work in areas of excessive height, such as but not limited to 400-foot stack, 100-foot ball field lights, support structure beams, switchyard structures, manlifts, scrubber module structures, boiler structures, precipitator structures, vessel structures, etc. and to climb to those locations with the necessary tools and safety equipment.

WORK ENVIRONMENT -

Tasks require the ability to perceive sounds and depths, and visual perception. Tasks risk exposure to adverse environmental conditions, such as dirt, dust, odors, humidity, temperature and noise extremes, wetness, strong/toxic agents/chemicals, machinery, vibrations, and bright or dim lighting.

CERTIFICATES, LICENSES, REGISTRATIONS

Class C Operator's License.

San Miguel offers an excellent benefit package, which includes:

- **Competitive salary plan**
- **Medical, Dental, and Life Insurance**
- **Short-term and Long-term Disability Insurance**
- **401(k) Plan**
- **Defined Benefit Retirement Plan (Pension)**
- **Excellent Sick Leave and Vacation Plan**

San Miguel Electric Cooperative is an Equal Opportunity Employer. In compliance with the Americans with Disabilities Act, San Miguel Electric Cooperative will provide reasonable accommodations to qualified individuals with disabilities, and encourages both prospective and current employees to discuss potential accommodations with the Personnel Department.