

SAN MIGUEL ELECTRIC COOPERATIVE

POSITION: MECHANICAL HELPER

SUMMARY

The Mechanical Helper will assist with mechanical, hydraulic, and pneumatic repair, maintenance of electric-power generating and control equipment, and perform other duties as required.

ESSENTIAL DUTIES AND RESPONSIBILITIES

- Install, maintain, and repair machinery, equipment, physical structures, and pipe systems following specifications, blueprints, manuals, and schematic drawings, using hand tools, power tools, hoist crane, and measuring and testing instruments.
- Visually inspect and test machinery and equipment.
- Listen for unusual sounds from machines or equipment to detect malfunctions and discuss machine operation variations with supervisors or other maintenance workers to diagnose problems or repair machines.
- Dismantle defective machines and equipment and install new or repaired parts.
- Clean and lubricate shafts, bearings, gears, and other parts of machinery.
- Lay out, assemble, install, and maintain pipe systems and related hydraulic and pneumatic equipment.
- Install machinery and equipment.
- Set up and operate machine tools, such as lathe, grinder, drill, and milling machine to repair or fabricate machine parts, jigs and fixtures, and tools.
- Operate cutting torch or welding equipment to cut or join metal parts.
- Assemble, analyze defects in, and repair boilers, pressure vessels, tanks, and vats in field.
- Attach rigging or signal crane operator to lift parts to specified position.
- Align structures or plate sections to assemble boiler frame, tanks, or vats, using plumb bobs, levels, wedges, dogs, or turnbuckles.
- Hammer, flame-cut, file, or grind irregular edges of sections or structural parts to facilitate fitting edges together.
- Bolt or arc-weld structures and sections together.
- Repair fabricated parts such as chutes, air heaters, fan stands, catwalks, ladders, coal hoppers, conveyors and pulverizers.
- Install manholes, handholes, valves, gauges, and feedwater connection in drums to complete assembly of water tube boilers.
- Repair boilers or tanks in field by unbolting or flame-cutting defective sections or tubes, straightening plates, using torch or jacks, installing new tubes, and fitting and welding new sections.
- May perform on-call duties.

REQUIRED EDUCATION/EXPERIENCE

Requires HS/GED and minimum *1 year prior mechanical experience in an industrial environment such as power generation, petro-chemical, or pulp and paper preferred.*

KNOWLEDGE, SKILLS, and ABILITIES

- Basic mechanical and welding equipment and procedures.
- Mathematical functions, and safety policies and procedures.
- Skilled in conducting effective and confident communications; working with varied personalities; reading blueprints and mechanical, electrical, instrumentation, and pipe drawings.
- Skilled in millwright work, hydraulics, and pneumatics.
- Ability to operate heavy equipment such as cranes, forklifts, and backhoes; reason through complex problems under pressure and use safety gear and equipment.

CERTIFICATES, LICENSES, REGISTRATIONS

Class C Operator's License

PHYSICAL DEMANDS - *The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job.*

Exert a high degree of physical effort including climbing, balancing, stooping, kneeling, crouching, and crawling; and the lifting (up to 150 lbs.), carrying, pushing, and/or pulling of heavy objects and materials. Work in confined spaces and high areas. 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, man lifts, 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 -

Ability to perceive and discriminate sounds, 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.

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.