

Toledo Bend Project Joint Operation
Sabine River Authority of Texas
Job Posting

Branch: Powerhouse Operations and Maintenance
Division: TBPJO
Job Title: Hydro Technician – Mechanical
Salary and Benefits: Full-time position offering competitive salary, health, dental, optical, and retirement benefits

HYDRO TECHNICIAN - MECHANICAL

A. JOB QUALIFICATIONS

Under general supervision, with wide latitude for planning or laying out work details, must be able to perform highly complex mechanical work involved in the inspection, repair and installation of mechanical equipment in Hydro plant generating stations, must be able to assume responsibility for operation of the Hydro plant equipment, and be qualified to do the following and related work as assigned:

1. Inspect and maintain all Hydro plant mechanical equipment, such as turbines, pumps, fans, compressors, piping systems, heat exchange apparatus, head gates, tail gates, governor system, diesel generator, and appurtenant equipment in accordance with applicable statutory rules and regulations.
2. Diagnose mechanical troubles of Hydro plant equipment and correct or recommend corrective measures.
3. Place in service, or remove from service, and operate in a safe manner, Hydro turbine-generator and related auxiliary equipment, station service electric circuits, air circuit breakers, oil circuit breakers, disconnect switches, transformers, storage batteries, recording instruments, governor system, generator bearings, turbine bearings, air compressors, heat exchangers, head gates, and tail gates.
4. Perform operations requiring reasonable precision with machine tools, such as drill presses, pipe and bolt threading machines, band saws, punch, or shear, etc.
5. Perform precision work with hand and bench tools in connection with the fitting, adjustment, alignment, etc. of governors, bearings, shafting, gears, and similar Hydro plant equipment.
6. Fabricate tools and fixtures for routine special use.
7. Set up rigging for the installation and maintenance of Hydro plant mechanical equipment, foundation, supports, etc.
8. Lay out work from prints or verbal instructions.
9. Direct work of assistants.
10. Place in service, or remove from service, and operate in a safe manner, Hydro turbine-generator and related auxiliary equipment, station service electric circuits, air circuit breakers, oil circuit breakers, disconnect switches, transformers, storage batteries, recording instruments, governor system, generator bearings, turbine bearings, air compressors, heat exchangers, head gates, and tail gates.
11. Assist in the daily Hydro plant operation, and routinely perform the Hydro Plant Coordinators duties, pertaining to Hydro plant operation, during absences.
12. Prepare maintenance and other routine reports.
13. Perform necessary housekeeping.

14. Assist the SRA in the implementation of the Owner's Dam Safety Program including, but not limited to construction, operation, maintenance, surveillance, monitoring, and inspection of Toledo Bend Project Joint Operation facilities.

B. EXPERIENCE AND SPECIAL QUALIFICATIONS

1. Must have worked as a Mechanical Technician or have had equivalent experience in power plant operations and maintenance.
2. Must have at least three years' experience in power plant or related work.
3. Have a thorough knowledge of mechanical work, such as piping and accessory installations, boiler, turbine and pump maintenance, bench, and machine work, etc.
4. Be familiar with advanced mechanical principles.
5. Be familiar with the strength and use of ropes, chains, cables, etc., as used in rigging.
6. Be proficient in the use of and nomenclature of tools and equipment ordinarily used.
7. Have a thorough knowledge of the operation, construction and function of boilers, turbines, pumps, heaters, steam traps, piping systems, regulators, and mechanical control devices, etc.
8. Be familiar with various kinds of metals, their applications, available sizes and shapes.
9. Be able to compute bills of material for jobs, working from specifications or from oral instructions.
10. Be thoroughly familiar with electrical and mechanical tagging rules.
11. Have ability to understand and perform semi-routine operations of high complexity and considerable variety where standard methods of procedure are available.
12. Know safety rules and be able to administer all approved methods of resuscitation, and be able to render practical first aid.
13. Know the location of, and be able to operate, all the firefighting equipment. Know what kind of equipment to use on electrical, oil and other fires.

C. PHYSICAL QUALIFICATIONS:

1. Must have full use of mental and physical faculties.
2. Have strength and endurance adequate for arduous labor as circumstances may require.

D. PERSONAL QUALIFICATIONS:

1. Be particularly alert in observing hazards and avoiding accidents.
2. Be willing to attend and take part in safety meetings.
3. Be willing to work in unusual surroundings, as well as the normal working conditions pertaining to this job.
4. Be willing to work irregular or extra hours as required.
5. Be able to receive and transmit orders and instructions in such a manner as to inspire respect and confidence of both supervisors and subordinates.
6. Be capable of assuming supervisory responsibilities.
7. Be especially neat, clean, and orderly in work and person.
8. Understand the importance of always rendering and maintaining first class, courteous service to all customers.

CONTACT:

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