



*Protecting Lake Michigan & Our Waterways.*

**North Shore Water  
Reclamation District**

## **PLANT MAINTENANCE MECHANIC**

The North Shore Water Reclamation District (NSWRD) is seeking qualified applicants for a non-exempt, union full-time position of Plant Maintenance Mechanic at its Clavey Road WRF in Highland Park.

This position reports to the facility Superintendent and the facility Assistant Superintendent. The person in this position will be responsible for the maintenance of the machinery and process equipment of a large advanced water reclamation facility and all supporting facilities; including, but not limited to small pump repairs and packing, small compressor maintenance, inspection and adjustments to tank collector equipment (including minor repairs); bar screen maintenance and repairs (with the exception of chain and sprocket replacement); repair and replacement of air diffusers and support systems; replacement of sheaves and belts on larger equipment (if equipment is in place and aligned); smaller piping and support systems; odor control equipment; valves and actuators; and the maintenance of buildings and grounds.

### **Job Functions:**

1. Review maintenance work orders and inspect equipment, diagnose the nature of repairs required and plan repair procedures.
2. Tear down equipment, replace components, including but not limited to, mechanical, pneumatic and hydraulic functions, impellers, valves, bearings, shafts, gear sets, seals, belts, chains and hoses. Reassemble, adjust, test and monitor units for proper operation.
3. Perform pneumatic and hydraulic line systems equipment repairs, rethread and replace pipes, hoses, seals and components and check for leaks, pressure and proper operation.
4. Perform minor building repairs as required.
5. Perform minor fabrication, welding and repairs.
6. Lubricate and oil equipment, replace filters, flush lines and inspect tanks and equipment for proper operation, as required.
7. Maintain maintenance stock room supplies and prepare purchase requisitions for repair parts as needed.
8. Complete maintenance work order forms and enter into computer system or submit to supervisor as required.
9. Notify supervisor of unusual equipment problems.

Candidates for this position should have the following knowledge and experience:

- At least two years of experience in mechanical maintenance work (wastewater treatment plant operations may be substituted for one year of experience).
- Read, speak, and write fluently in the English language.
- Must have a working knowledge of plumbing and electricity, and be familiar with machinery and equipment such as pumps, air compressors, electric motors, electric and pneumatic switching devices, and other wastewater treatment plant equipment.
- Special vocational shop studies desirable (blue print reading, shop math, metal shop, etc.).
- Must be capable of handling hand and power tools, and may be called upon to do light carpentry and masonry work.
- Valid Driver's License

If you are interested and qualified for this position, please send a resume to [hmail@northshorewrd.org](mailto:hmail@northshorewrd.org).

The North Shore Water Reclamation District is an Equal Opportunity Employer.



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## **North Shore Water Reclamation District**

### **JOB DESCRIPTION**

**Title:** Plant Maintenance Mechanic

**Division:** Operations

**Job Purpose Statement:** Responsible for the maintenance of the machinery and process equipment of a large advanced water reclamation facility and all supporting facilities; including, but not limited to small pump repairs and packing, small compressor maintenance, inspection and adjustments to tank collector equipment (including minor repairs); bar screen maintenance and repairs (with the exception of chain and sprocket replacement); repair and replacement of air diffusers and support systems; replacement of sheaves and belts on larger equipment (if equipment is in place and aligned); smaller piping and support systems; odor control equipment; valves and actuators; and the maintenance of buildings and grounds.

**Reporting Structure:** Superintendent and Assistant Superintendent.

#### **Essential Job Functions:**

1. Review maintenance work orders and inspect equipment, diagnose the nature of repairs required and plan repair procedures.
2. Tear down equipment, replace components, including but not limited to, mechanical, pneumatic and hydraulic functions, impellers, valves, bearings, shafts, gear sets, seals, belts, chains and hoses. Reassemble, adjust, test and monitor units for proper operation.
3. Perform pneumatic and hydraulic line systems equipment repairs, rethread and replace pipes, hoses, seals and components and check for leaks, pressure and proper operation.
4. Perform minor building repairs as required.
5. Perform minor fabrication, welding and repairs.
6. Lubricate and oil equipment, replace filters, flush lines and inspect tanks and equipment for proper operation, as required.
7. Maintain maintenance stock room supplies and prepare purchase requisitions for repair parts as needed.
8. Complete maintenance work order forms and enter into computer system or submit to supervisor as required.
9. Notify supervisor of unusual equipment problems.

#### **Physical and Visual Activities:**

Physical and visual activities that are commonly associated<sup>†</sup> with the performance of the functions of this job.

Standing, Walking, Sitting, Lifting, Carrying, Pushing, Pulling, Climbing, Balancing, Stooping, Kneeling, Crouching, Crawling, Reaching, Handling, Fingering, Feeling, Talking, Hearing, Acuity far, Acuity near, Depth Perception, Field of Vision, Accommodation, Color Vision.

**Physical Demands:**

Physical demands commonly associated<sup>†</sup> with the performance of the functions of this job.

Lift up to 1 lb. up to 15% of the time, Over 1 lb. up to 5 lbs. over 15% up to 40% of the time, Over 5 lbs. up to 25 lbs. up to 15% of the time may be carried several hundred yards during the day, Over 25 lbs. up to 60 lbs. up to 15% of the time may be required to carry several feet, Over 60 lbs. up to 15% of the time.

**Environmental/Atmospheric Conditions:**

Environmental and atmospheric conditions commonly associated<sup>†</sup> with the performance of the functions of this job.

Inside, Outside, Both, Extremes of cold, Cold temperature changes, Extremes of hot, Hot temperature changes, Wet, Humid, Noise, Vibration, Hazards, Fumes, Odors, Poor ventilation.

**Job Qualification Requirements**

Using the information from The Job Performance Requirements Checklist and the information from the top portion of this page, determine the selection criteria for this position. Include only the minimum hiring qualifications.

**Knowledge:** Ability to comprehend both oral and written instructions in the English language. High School graduate or equivalent. Must have a working knowledge of plumbing and electricity, and be familiar with machinery and equipment such as pumps, air compressors, electric motors, electric and pneumatic switching devices, and other wastewater treatment plant equipment. Must be capable of handling hand and power tools, and may be called upon to do light carpentry and masonry work. Special vocational shop studies desirable (blue print reading, shop math, metal shop, etc.).

**Must be able to pass a mechanical reasoning or aptitude test(s) as required at the time of job bid or application for this position.**

**Experience:** Minimum two (2) years of experience in mechanical maintenance (wastewater treatment plant operations may be substituted for one year of experience).

**Machines, Tools, Equipment (Office and Industrial), Software:** Pipe threader, gas and electric welder, fork lift, drill press, power rodder, hand power tools (saws, drills), portable air compressors, hydraulic press, and a variety of hand tools, telephone. PAPR/PPE and various safety equipment.

**Licenses/Certifications:** n/a

**Other:** Employees in this position shall be required to be legally authorized to operate a motor vehicle for work-related purposes in the State of Illinois. This requirement shall not apply to any employee assigned to this position as of 05/01/2007.