



April 2024
STUDENT INTERNSHIP

STUDENT INTERN-WASTEWATER TREATMENT PLANT OPERATOR

DEFINITION

Under direct operator supervision, learns a variety of basic plant operations, computer controls, and the importance of proper maintenance functions in support of the District's wastewater treatment plant's goals and objections. Training will also include the micro-filtration and reverse osmosis systems; influent and effluent flows within the system; learns the importance of all applicable policies, procedures, and work methods associated with various duties; assists with basic laboratory testing and sample collection; performs related work as required.

SUPERVISION RECEIVED AND EXERCISED

Receives direct supervision from a certified Treatment Plant Operator. No supervision of staff is exercised.

CLASS CHARACTERISTICS

Wastewater Treatment Plant Operator Intern: This is a training-level class within the Wastewater Treatment Plant Operator series. Under close supervision, incumbents will learn District systems, operations, maintenance, practices, and procedures.

EXAMPLES OF ESSENTIAL FUNCTIONS (Illustrative Only)

- Learns the operation of a variety of wastewater treatment plant pumps, motors, digesters, and other equipment; read gauges, dials and other instruments that record plant operations including SCADA, micro-filtration, and reverse osmosis.
- Learns compliance with environmental and public health standards, including monitoring and adjusting as needed to optimize efficiency, making chemical dosage changes, changing pumping rates, and monitoring all equipment daily.
- Learns and may perform laboratory and process tests to optimize plant performance.
- May assists in preventive maintenance on a variety of treatment plant equipment.
- Learns the operations of valves, pumps, and automated controls to regulate the flow of wastewater through plants.
- Maintains accurate records, including calculating the daily use of energy and chemicals, gauge and meter readings, and completing required monthly reports

QUALIFICATIONS

Knowledge of:

- Basic computer skills

Ability to:

- Be organized and detailed when completing tasks.
- Learn new skills.
- Follow verbal and written plans.
- Employ a customer service approach.
- Operate standard office equipment including computer and printer.
- Communicate effectively both orally and in writing.

EDUCATION

- Enrolled in high school or a General Education Development/Diploma GED program.

PHYSICAL DEMANDS

The physical demands and work environment described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions:

Standing

Walking

Sitting/Kneeling/Crouching/Squatting

Crawling

Climbing/Balancing

Reaching/Pushing/Pulling

Twisting/Rotating

Bending

Lifting/Carrying

Grasping

Fine Manipulation

Kneeling/Crouching/Squatting

Crawling

Climbing/Balancing

Reaching

Pushing/Pulling

Twisting/Rotating

Bending

Lifting/Carrying

Grasping
Fine Manipulation

PERSONAL PROTECTIVE EQUIPMENT

Depending on the hazard, the intern may be required to wear a hard hat, hearing protection, eye protection, safety shoes and hand protection.

- Intern must wear steel toed boots

ENVIRONMENTAL ELEMENTS

- Intern is exposed to outside weather conditions.
- The noise level in the work environment has the potential to be loud.
- Intern, as needed, works indoors, office setting, climate controlled.

Machine/Tools:

The machines and tools listed here are representative of those an intern encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions:

- Pliers
- Tape measures
- Sockets
- Socket adapters
- Ratchets
- Wrenches
- Screwdrivers
- Diagnostic tools
- Allen wrenches
- Telephone handset
- Grease gun
- Levels
- Square
- Wire strippers
- Pipe wrenches
- Computer keyboard, mouse, monitor
- Golf cart
- Dollies
- 4-wheeled cart
- Wrenches
- Ladders
- Valves
- Paint brush

- Blowers
- Vacuum
- Broom

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- Wrenches
- Ladders
- Valves
- Paint brush
- Blowers
- Vacuum
- Broom
- Squeegee