

Water Treatment Plant Operations Career Opportunities

Water Treatment Plant Operations

Atlantic City Municipal Utilities Authority

Water Treatment Plant | Pleasantville, NJ

Positions Available and Salary:

- Water Treatment Plant Operator Apprentice \$52,541 annually
- Water Treatment Plant Operator \$62,364 annually
- Senior Water Treatment Plant Operator \$72,141 annually

Position Status: Full-Time

Application Deadline: Open Until Filled

About Us

For more than a century, the Atlantic City Municipal Utilities Authority has provided the water that helps Atlantic City live, work, grow, and welcome the world.

Since the 1880s, our water system has supported the growth and evolution of Atlantic City. Today, ACMUA serves residents, businesses, casinos, hotels, healthcare facilities, schools, and the millions of visitors who come to the region each year. We operate one of the largest and most complex public water systems in New Jersey, producing award-winning drinking water from both surface and groundwater sources through a conventional surface water treatment plant, multiple pumping and storage facilities, and an extensive distribution network that must operate reliably 24 hours a day, 365 days a year.

As Atlantic City moves through a period of redevelopment, reinvestment, and growth, reliable water infrastructure is essential to what comes next. ACMUA is part of that progress, providing the foundation that supports homes, businesses, tourism, public services, and future development.

We are proud of our history, but we are focused on the future. ACMUA is investing in infrastructure, developing employees, and building a workplace grounded in our core values of respect, communication, and the pursuit of excellence. We want people who take pride in their work, solve problems, and want to be part of something that matters.

At ACMUA, we provide careers, not just jobs. This is an opportunity to join a respected public utility with a vital mission, a strong legacy, and the chance to build a career helping shape the future of one of New Jersey's most important and recognizable cities.

The Opportunity

The Atlantic City Municipal Utilities Authority is seeking motivated, dependable, and safety-conscious individuals to join our Water Treatment Plant Operations team.

ACMUA is recruiting candidates at multiple levels of experience, ranging from individuals beginning or advancing their careers in water treatment through experienced and licensed operators capable of assuming greater operational and leadership responsibilities.

Depending upon experience, qualifications, licensing, and the Civil Service title for which an applicant qualifies, successful candidates may be appointed as a **Water Treatment Plant Operator Apprentice, Water Treatment Plant Operator, or Senior Water Treatment Plant Operator**.

Members of the Water Treatment Plant Operations team are responsible for helping operate, monitor, adjust, maintain, and control the equipment and treatment processes necessary to produce safe and reliable drinking water. Employees work with pumps, valves, chemical feed systems, filters, instrumentation, process controls, laboratory equipment, and other mechanical and electrical systems associated with water treatment and pumping operations.

This is a hands-on position in a continuously operating public water system. Employees must be able to work responsibly and independently, follow established procedures, accurately monitor and document plant conditions, respond appropriately to changing operating conditions, and work cooperatively with other members of the operations, maintenance, laboratory, and management teams.

For individuals entering the profession, ACMUA offers the opportunity to learn the operation of a modern public water treatment system, develop technical skills, obtain New Jersey drinking water treatment licenses, and build a long-term career in the water industry. ACMUA supports professional growth through conferences, training programs, and industry events throughout New Jersey, providing opportunities for continuing education, professional networking, and career advancement.

Position Overview

Water Treatment Plant Operations employees perform progressively responsible work involving the treatment, pumping, monitoring, testing, and control of drinking water.

Depending upon assignment, experience, licensing, and level of responsibility, employees may operate and monitor treatment processes, regulate flows and pressures, adjust chemical treatment systems, inspect equipment, collect and test water samples, maintain operational records, perform routine maintenance and repairs, respond to equipment or process conditions, and coordinate or lead the work of other plant personnel.

Employees are expected to become familiar with the location, function, and operation of plant equipment and treatment processes and to understand how individual systems interact to maintain water quality, quantity, pressure, and regulatory compliance.

Key Responsibilities

Responsibilities may include:

- Operates, monitors, and adjusts water treatment plant equipment and treatment processes.
- Operates pumps, valves, motors, filters, chemical feed systems, instrumentation, and related equipment.
- Monitors plant conditions, flow rates, pressures, water levels, and treatment performance.
- Adds and regulates treatment chemicals in accordance with established procedures.
- Performs or assists with water sampling and routine water quality testing.
- Records operating data, treatment conditions, chemical usage, and other required information.
- Inspects equipment for proper operation and reports or responds to abnormal conditions.
- Performs or assists with routine preventive maintenance and minor repairs.
- Maintains assigned work areas and equipment in a clean, safe, and orderly condition.

- Communicates plant conditions, operating changes, and problems encountered to appropriate staff.
 - Uses computerized and manual systems to monitor operations and maintain records.
 - Follows established safety, operating, and regulatory procedures.
 - Participates in required training and continuing education.
 - Performs other related duties as required.
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Knowledge, Skills, and Abilities

- Knowledge of or the ability to learn drinking water treatment processes and plant operations.
 - Knowledge of or the ability to learn the operation of pumps, valves, motors, filters, chemical feed systems, instrumentation, and related equipment.
 - Ability to understand and follow written and oral instructions, operating procedures, safety requirements, and regulatory requirements.
 - Ability to perform basic mathematical calculations associated with chemical dosage, flow, treatment, and plant operations.
 - Ability to accurately read gauges, meters, instrumentation, and computerized process information.
 - Ability to recognize abnormal operating conditions and appropriately report or respond to them.
 - Ability to collect samples and perform routine water quality testing.
 - Ability to maintain complete and accurate operating records.
 - Ability to perform repetitive work requiring careful attention and strict adherence to established procedures.
 - Mechanical aptitude and the ability to perform or assist with routine equipment maintenance.
 - Ability to communicate effectively and work cooperatively with coworkers, supervisors, and other departments.
 - Ability to use computerized and electronic operating and recordkeeping systems.
 - Ability to work responsibly in an environment where reliable operations and public health are essential.
 - Commitment to safety, regulatory compliance, teamwork, and the production of high-quality drinking water.
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Minimum Qualifications

Candidates will be considered for appointment to the Civil Service title for which they meet all applicable experience, education, training, and licensing requirements.

Water Treatment Plant Operator Apprentice

- Designed to provide qualified candidates with an opportunity to develop the knowledge, operational experience, training, and New Jersey water treatment licensing necessary for advancement within the profession.
- The apprenticeship program includes progressive training and licensing requirements established by the applicable New Jersey Civil Service job specification.

Water Treatment Plant Operator

- Intended for candidates possessing qualifying experience in the operation, adjustment, regulation, repair, and maintenance of pumps, motors, valves, and other mechanical and electrical equipment associated with water treatment, pumping, or filtration facilities. ACMUA requires a minimum NJDEP T-1 Water Treatment Operator License for appointment to this title.

Senior Water Treatment Plant Operator

- Intended for experienced water treatment operators capable of performing advanced operational duties and taking the lead over other operators when assigned. ACMUA requires a minimum NJDEP T-2 Water Treatment Operator License for appointment to this title.

Applicants should review the attached Civil Service job specifications for the complete education, experience, training, licensing, and advancement requirements applicable to each title.

Compensation and Benefits

In addition to a competitive salary, ACMUA offers a comprehensive benefits package that includes:

- Participation in the New Jersey Public Employees' Retirement System (PERS)
- Medical, dental, and vision coverage
- Paid vacation, sick leave, personal leave, and holidays

- Professional development and certification support
 - Water treatment licensing and continuing education opportunities
 - Opportunities for advancement within the water treatment profession
 - Long-term career growth within a respected public utility
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Work Schedule

The Atlantic City Municipal Utilities Authority Water Treatment Plant operates 24 hours a day, 365 days a year. Water Treatment Plant Operations employees are assigned to one of three regular operating shifts:

- 8:00 a.m. to 4:00 p.m.
- 4:00 p.m. to 12:00 midnight
- 12:00 midnight to 8:00 a.m.

Shift assignments are based upon operational needs, with preference provided in accordance with applicable seniority provisions.

New employees and employees undergoing required operational training should expect to complete their initial training primarily on the 8:00 a.m. to 4:00 p.m. shift before assignment to a regular operating shift.

Applicants must be willing and able to work any of the three shifts. Positions may also require work on weekends, holidays, overtime, and during emergencies or other circumstances necessary to maintain continuous water system operations.

Physical Demands and Work Environment

Water treatment operations involve work in an active industrial and utility environment.

Employees may be required to:

- Stand and walk for prolonged periods.
- Climb stairs, ladders, and other plant structures.
- Turn valves and operate mechanical controls.
- Work around pumps, motors, piping, chemical systems, treatment basins, and other industrial equipment.
- Use hand tools, power tools, laboratory equipment, and process control systems.

- Work indoors and outdoors and in varying environmental conditions.
- Wear required personal protective equipment.
- Safely work around chemicals and other materials commonly used in drinking water treatment.

Reasonable accommodations may be made to enable qualified individuals with disabilities to perform the essential functions of the position.

Equal Employment Opportunity

The Atlantic City Municipal Utilities Authority is an Equal Opportunity Employer and complies with all applicable federal and state laws prohibiting discrimination in employment. Employment decisions are made without regard to race, color, religion, sex, sexual orientation, gender identity or expression, national origin, age, disability, veteran status, or any other protected status under applicable law.

Official Civil Service Job Specifications

This recruitment may result in appointment under one of the following New Jersey Civil Service titles:

- **Senior Water Treatment Plant Operator**
Civil Service Job Specification Code: **03647**
- **Water Treatment Plant Operator**
Civil Service Job Specification Code: **04296**
- **Water Treatment Plant Operator Apprentice**
Civil Service Job Specification Code: **10053**

The complete New Jersey Civil Service job specifications for all three titles should be reviewed for official title-specific duties, experience, education, training, licensing, and advancement requirements.