

## SENIOR PRODUCTION ENGINEER

Code No.: 3-14-379  
COMPETITIVE

**DISTINGUISHING FEATURES OF THE CLASS:** This is a senior staff engineering position in the Monroe County Water Authority responsible for the direction of the operation, construction and maintenance of water treatment, pumping and storage facilities. The work also involves design, material specification, equipment analysis, budgeting, and environmental compliance functions relating to public water supply. The employee reports directly to and works under the general supervision of the Executive Director with considerable leeway allowed for in the exercise of independent judgment and the application of professional engineering standards. This position differs from the lower level Production Engineer by virtue of its responsibility for directing the operation and advising the Director regarding methods and procedures. General supervision is exercised over professional and technical operating staff. Work requires regular inspection of various areas within the treatment plant and offsite locations including booster pumping stations, tanks and reservoirs. Work also requires the employee to climb ladders or stairs and enter confined or restricted spaces including sub-grade facilities and maneuver or work in tight quarters around machinery. Does related work as required.

**TYPICAL WORK ACTIVITIES:** (All need not be performed in a given position. Other related activities may be performed although not listed.)

Directs the operation, construction and maintenance of water treatment, pumping and storage facilities;

Advises the Director regarding methods and procedures for plant and system operations, construction, and other matters;

Conducts investigations and prepares reports, environmental assessments, hydraulic analyses, and planning studies;

Analyzes operations and systems for maximizing efficiency;

Plans and designs hydraulic and treatment process equipment as directed;

Assesses safety issues and develops appropriate safety programs and employee training for the unit consistent with Occupational Safety and Health Administration (OSHA) regulation and good safety practices;

Develops new and improved methods of water treatment, pumping, and pressure regulation;

Trains, supervises, reviews and evaluates the work of technical and operating staff;

Prepares capital and operating budgets for the department.

**FULL PERFORMANCE KNOWLEDGES, SKILLS, ABILITIES AND PERSONAL CHARACTERISTICS:**

Thorough knowledge of modern principles and practices of water pumping and treatment plant construction and operation; thorough knowledge of applicable state and federal regulations governing the water supply industry; thorough knowledge of the principles of sanitary, electrical and mechanical engineering as they relate to water supply; thorough knowledge of the materials and equipment used in large scale water treatment and pumping operations; good knowledge of OSHA regulations as they relate to water treatment facilities; analytical skill; organizational skill; ability to train and supervise employees; ability to plan and design hydraulic and treatment process equipment; ability to analyze water supply operations to determine cost efficiency; ability to prepare capital and operating budgets; ability to communicate effectively both

orally and in writing; ability to establish and maintain effective professional working relationships; initiative; resourcefulness; integrity; good judgment; physical condition commensurate with the demands of the position.

**MINIMUM QUALIFICATIONS:** Graduation from high school or possession of an equivalency diploma, plus EITHER:

- (A) Graduation from a regionally accredited or New York State registered college or university with a Bachelor's degree plus five (5) years of paid full-time or its part-time equivalent engineering experience including one or more of the following: design, review, inspection, construction, or operations of public water supply facilities, one (1) year of which shall have been in a supervisory capacity; OR,
- (B) Graduation from a regionally accredited or New York State registered college or university with an Associate's degree, plus seven (7) years of paid full-time or its part-time equivalent experience as defined in (A) above, one (1) year of which shall have been in a supervisory capacity; OR,
- (C) Any equivalent combination of training and experience as defined by the limits of (A) and (B) above.

**SPECIAL REQUIREMENTS:** Possession of a New York State Health Department Grade IA Water Treatment Operator's Certificate at time of appointment.

Possession at the time of appointment of a New York State Professional Engineer's license or possession of a Professional Engineer's license issued by a state having reciprocity with New York Professional Engineering licensure standard, and which license was obtained by written examination.

Where, in order to meet the license requirement, an individual is appointed by using the process of reciprocity, the probationary period is not considered complete until the employee has received the license issued by the State of New York. The license must be obtained within twelve (12) months of appointment.

If you are appointed, you will be required to possess a valid license to operate a vehicle in NYS, or otherwise demonstrate your ability to meet the transportation needs of the position.

**SPECIAL REQUIREMENT FOR APPOINTMENT IN SCHOOL DISTRICTS AND BOCES:**

Per Chapter 180 of the Laws of 2000, and by Regulations of the Commissioner of Education, to be employed in a position designated by a school district or BOCES as involving direct contact with students, a clearance for employment from the State Education Department is required.

**ADOPTED:** April 4, 2002