

## ASSISTANT CHEMIST

Code No: 3-14-055

COMPETITIVE

DISTINGUISHING FEATURES OF THE CLASS: This is a professional position in the Monroe County Water Authority responsible for the performance of chemical and microbiological analysis of water and the determination of the required dosages of chemicals for proper water quality. Employees may be required to climb ladders or stairs and enter confined or restricted spaces including subgrade facilities and maneuver or work in tight quarters around machinery. Employees of this class assist in the operation of the purification system and the processing of water plant wastes. The employee reports directly to and works under general supervision from a senior level staff member. General supervision may be exercised over other laboratory employees for specific tasks or special projects. 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.)

Performs chemical and microbiological analysis of the water to test for such conditions as chlorine, fluoride, turbidity, hardness, alkalinity, PH, coliform, color and odor;

Prepares reports on water quality for New York State, County and various towns serviced by Monroe County Water Authority;

Conducts special studies and tests for improvements of water quality and treatment plant operations;

Develops and maintains a Laboratory Manual in accordance with New York State Health Department requirements for Laboratory Certification;

Investigates complaints from consumers about water quality;

Assists in the instruction of Water Treatment Plant Operators;

Maintains a physical inventory of laboratory chemicals and supplies and requisitions additional supplies as needed;

Assists in necessary testing for the Central Processing Facility.

### FULL PERFORMANCE KNOWLEDGES, SKILLS, ABILITIES AND PERSONAL

CHARACTERISTICS: Thorough knowledge of chemical and microbiological testing techniques

and tests required related to the operation of a public water system; thorough knowledge of the correct measures to improve water potability; thorough knowledge of the operations of a water treatment plant; working knowledge of maintenance problems of a water treatment plant; ability to plan and supervise the work of others; ability to make accurate chemical and microbiological analysis; ability to deal well with the public; ability to instruct others; ability to keep inventories, records and logs; ability to establish and maintain effective working relationships with professional and governmental employees; tact; accuracy; initiative; integrity; good judgment; physical condition commensurate with the demands of the position, including ability to stand for long periods of time.

**MINIMUM QUALIFICATIONS:** Graduation from a regionally accredited or New York State registered college or university with a Bachelor's degree in the Chemical, Environmental or Biological Sciences which includes a minimum of 24 semester credit hours in Chemistry and 4 credit hours in general Microbiology\*, plus three (3) years of paid full-time or its part-time equivalent laboratory experience obtained under acceptable supervision in the environmental analysis of inorganic and representative organic analytes for which the laboratory is seeking approval.

**NOTE:** A Master's degree in the chemical, environmental or biological sciences including a minimum of 24 semester credit hours in Chemistry and 4 in general Microbiology may substitute for up to one (1) year of experience.

**SPECIAL REQUIREMENTS:** Attendance at the New York State Grade I Water Treatment Plant Operators course at an approved New York State university to be completed within one year of appointment.

Qualifications of laboratory personnel are subject to the provisions of Subpart 55-2 to Part 55 of Title 10 NYCRR.

Possession of a Valid New York State Class D driver's license at time of appointment.

Depending on position duties, candidates for employment with Monroe County Government will be required to pass a pre-employment drug test.

\*Candidates must submit a copy of a student transcript with their application.

### **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.

REVISED: October 23, 1986

REVISED: April 15, 1993