CHEMIST

Code No. 3-14-023
COMPETITIVE

DISTINGUISHING FEATURES OF THE CLASS: This administrative technical position, located at the Monroe County Water Authority, serves as the Technical Director of both an inorganic chemical and microbiological laboratory, as defined by the provisions of Title 10 New York State Code, Rules and Regulations (NYCRR), Part 55-2.10, and is responsible for the day-to-day supervision of laboratory operations, including the reporting of results. Duties involve inorganic chemical and microbiological analysis of water to ensure proper water quality. Duties also involve the development and implementation of a quality system, including: monitoring standards of performance in quality control and quality assurance, monitoring the validity of analyses performed and data generated to ensure reliable data and ensuring that sufficient numbers of qualified personnel are employed and providing educational direction to laboratory staff. The employee reports directly to, and works under the general supervision of, the Production Engineer or other higher-level staff member. General supervision is exercised over a technical and professional staff. 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.)

Supervises the operation and maintenance activities of an environmental laboratory;

Supervises and assists in performing chemical and microbiological analysis of the water to test for such conditions as chlorine, fluoride, turbidity, hardness, alkalinity, PH, coliform, standard plate counts, color, and odor;

Supervises and assists in preparing reports on water quality for New York State, County and various towns served by Monroe County Water Authority;

Supervises and conducts special studies and tests for improvement of water quality and treatment plant operations;

Investigates complaints from consumers about water quality;

Assists in the instruction of Water Treatment Plant Operators;

Supervises and maintains a physical inventory of laboratory chemicals and supplies and requisitions as needed.

FULL PERFORMANCE KNOWLEDGES, SKILLS, ABILITIES, AND PERSONAL CHARACTERISTICS:
Thorough knowledge of chemical and microbiological testing techniques and tests required related to 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; good knowledge of applicable software; 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; ability to communicate orally and in writing; good judgment; physical condition commensurate with the demands of the position.

MINIMUM QUALIFICATIONS: Graduation with a Bachelor's degree in the chemical, physical, biological, or environmental sciences, including ALL of the following:

1) At least sixteen (16) college semester credit hours in chemistry; AND,

2) At least sixteen (16) college semester credit hours in biological sciences, which must include four (4) credits in microbiology, OR at least four (4) credits in microbiology if the microbiological analysis performed by the laboratory is limited to fecal coliform, total coliform, and standard plate counts; AND,

3) Two (2) years paid full-time or its part-time equivalent experience performing inorganic chemical analysis; PLUS,

4) Two (2) years paid full-time or its part-time equivalent experience in environmental analysis of representative analytes for which the laboratory is approved or seeking approval.

NOTES: Your degree must have been awarded by a college or university accredited by a regional, national, or specialized agency recognized as an accrediting agency by the U.S. Department of Education/U.S. Secretary of Education. If your degree was awarded by an educational institution outside the United States and its territories, you must provide independent verification of equivalency. A list of acceptable companies who provide this service can be found on the Internet at http://www.cs.ny.gov/jobseeker/degrees.cfm. You must pay the required evaluation fee.

The Minimum Qualifications are regulated by the New York Codes, Rules and Regulations (NYCRR), Part 55-2.10, sections (g) and (h).

SPECIAL REQUIREMENT: If you are appointed, you will be required to possess a valid license to operate a motor vehicle in New York State or otherwise demonstrate your capacity to meet the transportation needs of the job.

Monroe County Civil Service Commission
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