

SENIOR WATER QUALITY ANALYST

DISTINGUISHING FEATURES OF THE CLASS: This administrative professional position exists at the Upper Mohawk Valley Regional Water Board, and involves responsibility for the more advanced organic, inorganic, and microbiological chemical analysis of water to ensure proper drinking water quality. This class differs from Water Quality Analyst by virtue of the performance of more difficult duties and responsibilities. Direct supervision is exercised over technical and professional staff. General supervision is received from the Bio Chemist or other higher-level supervisor. Does related work as required.

TYPICAL WORK ACTIVITIES: (Illustrative Only)

- Supervises, and assists in performing, chemical and microbiological analysis of water to test for protozoan and pathogens;
- Supervises, and assists in preparing, reports on water quality for New York State, Oneida County and various towns served by the Water Board;
- Supervises and conducts special studies and tests for improvement of water quality;
- Performs microscopic identity and analyses of protozoan pathogens, including *Cryptosporidium parvum* and *Giardia lamblia*;
- Utilizes computer software to archive images and transmit images electronically to USEPA and other laboratories;
- Organizes and serves as quality control supervisor for protozoan pathogen analyses, including preparing reports, collection of samples, chain-of-custody, isolation, and microscopic detection;
- Conducts research and publishes results on source water and the distribution system bacteria;
- Contributes to Water Quality Departmental activities with other scientists/program managers within or outside the agency;
- Performs research on source water and distribution system bacteria identification and quantitation;
- Assists in developing and supervising a Legionella program;
- Prepares a variety of records and reports related to the work.

FULL PERFORMANCE KNOWLEDGE, SKILLS, ABILITIES AND PERSONAL

CHARACTERISTICS: Thorough knowledge of chemical and microbiological testing techniques required which are related to the operation of a public water system; thorough knowledge of the correct measures to improve water potability; good knowledge of the operations of a water treatment plant; ability to plan and supervise the work of others; ability to make accurate chemical and microbiological analysis of water; ability to deal well with the public; ability to instruct others; ability to use computer imaging and word processing software; ability to keep inventories, records and logs; ability to conduct research and publish water quality results; ability to establish and maintain effective working relationships with professional and other employees; computer literacy.

MINIMUM QUALIFICATIONS: Graduation from a regionally accredited or New York State registered college or university with a Bachelor Degree in one of the biological or environmental sciences, which included a minimum of (24) semester credit hours in biology, **AND** three (3) years of laboratory experience in environmental analysis.

NOTE: Possession of a Master's Degree in one of the biological or environmental sciences, including a minimum of (18) semester credit hours in biology, may substitute for up to one year of experience.

SPECIAL REQUIREMENT: The incumbent must qualify for the U.S. Environmental Protection Agency Information Collection Rule Certification Requirements.