

CHEMIST, SENIOR

Job Code	Pay Grade
17466	CL18

Nature of Work

This is professional scientific work supervising technical oversight to an analytical section of the laboratory, requiring a high level of experience and expertise in performing complex chemical, biological, bacteriological and physical analysis of fluids and/or solids in the Utilities Laboratory. Employees in this class exercise a high degree of independent judgment and skill in the development, performance and evaluation of scientific analyses, supervising a subordinate staff of Chemists. Work requires a high level of expert knowledge of the current regulations and the methods used for collection and analyses of samples. This position also monitors the output of an analytical section for the timeliness, accuracy and validity of the data being generated for the corresponding laboratory clients. Work is performed under the general direction of an administrative superior.

Minimum Qualification Requirements

- Bachelor's degree in chemistry, bacteriology, biology, or related discipline and four (4) years experience in general laboratory analysis including the basic understanding of automated analysis and instrumentation; or
- An equivalent combination of education, training and/or experience.

Appointing Authority May Also Require

- Florida Driver's License or Florida Commercial Driver's License and endorsement, if any.
- Assignment to work a variety of work schedules including compulsory work periods in special, emergency, and/or disaster situations.
- Other highly desirable knowledge, skills, abilities and credentials relevant to position.

Illustrative Tasks (These are examples and are not all inclusive.)

- Provides expert technical oversight in the performance of scientific analyses, including the utilization of specialized techniques or complex laboratory instrumentation.
- Plans, assigns, reviews and supervises the daily activities of subordinate staff.
- Troubleshoots complex analytical problems.
- Provides lists of materials and/or supplies needed to ensure the proper timely operation of the section.
- Recommends equipment to be purchased to ensure the proper operation of the section.
- Oversees and reviews routine and complex chemical, biological and bacteriological examinations.
- Interprets laboratory data for county, state and federal officials, judges, and/or attorneys.
- Develops, modifies and maintains procedures for laboratory certification.
- Calibrates, maintains and operates all manual and automated laboratory instrumentation.
- Trains laboratory personnel.
- Develops, reviews, and recommends methods modifications and development.
- May assist superiors in data acquisition for various reports.
- Performs related work as assigned or required.

Knowledge, Skills, and Abilities

- Knowledge of laboratory principles, practices and techniques of chemistry, biology and bacteriology.
- Knowledge of the capabilities and limitations of electronic computers and complex automated instrumentation, and the role they perform in laboratory analysis.
- Knowledge of sewage treatment and disposal, industrial wastes, stream pollution or the methods for treating and testing water supply systems, depending on area of assignment.
- Knowledge of local, state and federal laws and regulations pertaining to water quality, wastewater treatment, and data validity.
- Knowledge of OSHA regulations and recognized safety operating practices for laboratory work.
- Skill in laboratory techniques, and in following and adapting scientific methods and procedures.

CHEMIST, SENIOR (continued)

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Knowledge, Skills, and Abilities (continued)

- Ability to interpret test results, and to prepare comprehensive analytical reports.
- Ability to perform a variety of laboratory tests on water, wastewater, or sludge samples, and to prepare and standardize laboratory reagents.
- Ability to carry on independent research in the chemistry, biology and/or bacteriology of wastewater treatment or potable water supplies.
- Ability to train, instruct and/or oversee personnel.
- Ability to operate, maintain and calibrate laboratory equipment and instruct personnel in their use.
- Ability to present scientific ideas and findings clearly and concisely in written, oral and graphic form.

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Revised	EEOC Code	Overtime Code
6/07	Professionals	Classified/Excluded