

Class Concept

This is intermediate level supervisory, administrative and advanced professional work in directing a small and fairly complex, or a larger and less complex chemistry laboratory or section engaged in both standardized and non-standardized testing for a variety of substances.

Employees direct, review and evaluate the work of subordinates, and develop and make moderate adjustments and modifications to methods, procedures, schedules, assignments and project priorities. Employees would normally spend a portion of their time in performing or checking the more complex, controversial or advanced work of their laboratory, and would function as a technical expert including testifying in court or at hearings as a technical expert. Employees apply an advanced professional knowledge of chemistry principles, concepts, theories, methods, procedures and techniques to develop, conduct, evaluate and oversee the more complex qualitative and quantitative chemical analyses on a wide variety of substances. Employees often determine the kind and extent of analysis required to solve a problem; evaluate new equipment, procedures and developments in their field; and select, arrange and modify equipment and elaborate instrumentation to plan and implement complex testing operations. Employees often operate under guidelines and references that are generally vague and non-specific including laws, regulations, agency guidelines, policies, precedents and recent work in their specialty area. Work may include other duties and responsibilities as assigned.

Recruitment Standards

Knowledge, Skills, and Abilities

- Advanced knowledge of the principles, concepts, theories, reference sources and laboratory applications of chemistry and other related sciences.
- Considerable knowledge of the laws, regulations and agency policies governing area of responsibility, and of scientific methodology and laboratory safety practices.
- Ability to supervise and evaluate the work of chemists and chemistry technicians.
- Ability to independently perform complex standardized, non-standardized and developmental laboratory procedures; to analyze results, interpret and develop methodology; and to understand and solve complex theoretical problems.
- Ability to review and express technical information clearly, both orally and in writing.
- Ability to perform advanced mathematics and statistical analysis, to perceive colors normally and to make olfactory distinctions.
- Ability to establish and maintain effective working relationships.

Minimum Education and Experience

Bachelor's degree in chemistry from an appropriately accredited institution and four years of progressive chemistry laboratory experience; or an equivalent combination of education and directly related experience.

Note: This is a generalized representation of positions in this class and is not intended to identify essential functions per ADA.