



## City of Kansas City, Missouri Job Class Specification

**Job Title:** CHEMIST

**Department:** WATER

**Job Code:** 4009

**Status:** NONEXEMPT

**Grade:** NE-7

### Summary

This is professional laboratory work in the performance of a variety of standard and specialized chemical, bacteriological and physical tests.

Work involves responsibility for the performance of standardized chemical, bacteriological and physical analysis of air, raw and treated water and sewage samples and a variety of related substances and materials. Work includes responsibility for conducting mass and volume tests on air, water, sewage and related materials generally following prescribed procedures and techniques as to methodology and general instructions regarding laboratory standards. Detailed instructions are received on new procedures. Although assignments are generally limited in scope and performed according to standardized procedures, employees of this class must exercise independent judgment in making technical decisions. Work is reviewed through review of test results, occasional observation of work performed and retests performed by technical superiors.

### Duties and Responsibilities

- Supervises and participates in standard and non-standard chemical, bacteriological and physical examinations and tests of air, raw and treated water and sewage samples; performs analytical tests on raw materials as necessary.
- Supervises and participates in the work of technical assistants performing standard and limited control work; checks test and analysis results for accuracy; assists in instructing new employees in the procedures of the laboratory.
- Applies chemical and mathematical rules and principles to make necessary calculations.
- Supervises and assists in special or difficult analysis related to air, water, sewage, chemicals and related materials, including limited bacteriological work; does research work on algae, taste and odor for water.
- Maintains records of work performed in the laboratory and compiles reports.
- Performs related duties as required.

### Technical Skills

Considerable knowledge of:

The current principles and practices of chemistry, particularly as applied in analytical work; standard laboratory principles, techniques, terminology, equipment and materials.

Some knowledge of:

Federal, state and local laws establishing and regulating qualitative and quantitative standards applicable to air and water quality and sewage treatment.

Ability to:

Perform standard and special tests and make chemical analyses quickly and accurately. Understand and follow oral and written instructions, formulas and charts.

Perform all mathematical calculations involved in the work.

Determine accurate readings of various laboratory instruments and calibrated equipment.

<b>Education and Experience</b>	Accredited Bachelor's degree with major course work in Chemistry, Biology, Microbiology, Environmental Sciences or related sciences.
<b>Certificates/ Licenses/Special Requirements</b>	<ul style="list-style-type: none"><li>▪ Must pass a background check as prescribed by the City.</li><li>▪ Will be required to pass a preemployment drug screen.</li><li>▪ Must possess a valid State –issued driver's license in accordance with the City of KCMO policies.</li></ul>
<b>Supervisory Responsibility</b>	Supervision may be exercised over assigned personnel.
<b>Supervision Received</b>	<p>Work is performed under general supervision.</p> <p>Note: This job description should not be construed to imply that these requirements are the exclusive standards of the position. Incumbents will follow any other instructions, and perform any other related duties, as may be required. Reasonable accommodation will be provided to qualified individuals with disabilities. The City of Kansas City has the right to revise this job description at any time. The job description is not to be construed as a contract for employment.</p>
<b>Created</b>	9/06
<b>Revised</b>	8/2022 , 01/2024