

**MIDDLESEX COUNTY UTILITIES AUTHORITY
JOB OPENING**

JOB TITLE: Laboratory Technician I

DEPARTMENT: Environmental Quality - Laboratory

LOCATION: Central Treatment Plant

SALARY LEVEL: N-4 (\$34,990.00-\$80,580.00)

REPORTS TO: Laboratory Supervisor/ As assigned

OTHER REQUIREMENTS: Must be available for call-in and overtime work

DIVISION: Wastewater

EXEMPT: No

SHIFT: Yes

REVISED: 1/18/2023

SUMMARY: Within a controlled laboratory environment, perform analyses on water, nonpotable water, industrial wastewater, or solid matrices for chemical and biological parameters that are included in MCUA Laboratory annual certified parameter list (ACPL) following approved methods as instructed.

ESSENTIAL DUTIES & RESPONSIBILITIES: Include the following and others as assigned.

Analyze samples using titrimetric, colorimetric, fluorometric, gravimetric, and electrometric techniques for specific parameters as required.

Calibrate, maintain, and operate laboratory equipment and instruments such as balances, pH meters, dissolved oxygen meters, Fluorometer, UV-VIS spectrophotometers, and other equipment.

Prepare chemical reagents and solutions required for routine laboratory analyses.

Maintain test result records on standardized forms and operates computer to input and retrieve data and to prepare graphs and charts as required.

Maintain and store analytical equipment used in laboratory analysis.

Maintain and store chemicals and reagents used in laboratory analysis.

Perform or assist in performing limited microbiological testing.

Perform custodial laboratory duties and clean labware as necessary.

Comply with applicable safety and health policies and procedures.

QUALIFICATION REQUIREMENTS: To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill, and/or ability required.

EDUCATION and/or EXPERIENCE: Associates Degree with a concentration in biology, chemistry, environmental or related science; or High School Diploma with two (2) years wastewater laboratory or related experience and/or training.

LANGUAGE SKILLS: Ability to read, analyze, and interpret general scientific and technical journals, laboratory reports, and regulatory documents. Ability to write reports and business correspondence. Ability to effectively present information and respond to questions.

MATHEMATICAL SKILLS: Ability to calculate figures and amounts such as ratios, proportions, fractions, percentages, weight, and volume. Ability to apply concepts of basic algebra.

REASONING ABILITY: Ability to define problems, collect data, establish facts, and draw valid conclusions. Ability to interpret technical instructions in mathematical or diagram form and deal with abstract and concrete variables.

OTHER SKILLS and ABILITIES: Ability to use and calibrate electronic and mechanical equipment for testing samples. Ability to perform basic laboratory activities such as using an analytical balance, pipetting, preparing stock solutions and reagents, operating and maintaining pH and dissolved oxygen meters, and generating final test results. Solid understanding of importance of safety in an active chemical laboratory. Solid understanding of chemical properties in relation to adverse reactions and harmful compatibilities. Thorough knowledge of chemical properties; proper storage and handling of chemicals; and the elements of a chemical hygiene plan. Ability to operate computer equipment, common software applications and specialized software applications such as data acquisition programs. Must be able and willing to utilize appropriate respiratory and other safety equipment/ PPE required in the performance of duties.

LICENSES: Must possess valid state of residence driver's license and meet Authority insurance requirements.

PHYSICAL DEMANDS: While performing the duties of this job, the employee is frequently required to stand and reach with hands and arms. The employee is frequently required to walk and have manual dexterity; talk or hear; and smell. The employee must regularly lift and/or move up to 25 pounds, frequently lift and/or move up to 50 pounds and occasionally lift and/or move up to 75 or more pounds. Specific vision abilities required by this job include close vision, distance vision, color vision, depth perception, and the ability to adjust focus.

WORK ENVIRONMENT: While performing the duties of this job, the employee is frequently exposed to hazardous chemicals. The employee is occasionally exposed to fumes, noxious odors or airborne particles and risk of electrical shock. The noise level in the work environment is usually quiet.

INSTRUCTIONS TO APPLY FOR THIS POSITION:

Anyone interested in applying for this position should submit a current resume and a letter of interest explaining how the candidate meets the job requirements to **Human Resources Office, Central Administration Building, Room 124, Sayreville** or to mwwiater@mcua.com. Employees who are newly hired or accept a new position within the Authority, those who are promoted to a new job classification or have been transferred to a new assignment, and former employees who have been rehired, are classified as Conditional Employees for a period of six (6) months beginning with the first day on the new job. Employees are eligible to apply for a different position within the Authority after they have completed the 6 month period as a Conditional Employee. Any current employee who accepts and begins working in this position may not be able to return to their old position, or to any other position within the Authority, because of withdrawal or removal from, or inability to perform in this position. Qualified employees are encouraged to apply for posted positions as they occur.

The MCUA is an Equal Opportunity Employer (EEO/AA).