

## **Position Summary**

This position is responsible for preparing environmental samples (water, wastewater, soil, and sediment) for a variety of constituents using highly complex, state-of-the-art automated instrumentation and standard wet chemical techniques. This position works with team members to monitor the status of tests in the Wet Chemistry area (which may include phosphorus, nitrate, ammonia, Kjeldahl nitrogen, anions, solids, chlorophyll, oil and grease, biochemical oxygen demand (BOD) among others). Some of the instrumentation includes Lachat automated flow injection analyzers and UV/Visible spectrophotometer. The position requires effective team skills to contribute to the efficient operation of the work unit and the organization. The position is expected to present ideas, carry out assignments, and provide feedback to team members and the supervisor. This position works under supervision and reports to the supervisor of the Inorganic Chemistry Department. Standard work hours are from 7:45 am-4:30 pm, Monday through Friday during the summer.

## **Goals and Worker Activities**

1. Water and wastewater sample preparation for subsequent analysis following SOPs by sieving, filtration, hot block digestions, preparing sample aliquots or dilutions.
2. Preparing of standard reagents for the analysis of standard nutrients, such as nitrogen and phosphorus.
3. Assist in receiving, entering and tracking samples in our Laboratory Information System (LIMS).
4. Use common laboratory equipment such as a balance, microbalance, micropipettes, glass pipettes, pH meter, shaker table, sonicator, vacuum filtration unit.

## **Knowledge and Skills**

1. Knowledge and skills of general and standard good laboratory practices.
2. Knowledge of personal computers and use of scientific laboratory application software, such as spreadsheets, word processing and database operations.
3. Knowledge of theory and practice of laboratory safety.
4. Effective team skills.
5. Exceptional customer service skills.
6. Effective interpersonal skills.
7. Organized, motivated, detail oriented, excellent communication skills and able to work independently.