**Job Description**

North Coast Labs

Adrian, Michigan

Please contact [info@nctl.com](mailto:info@nctl.com) to ask questions or apply.

**Microbiologist**

**Job Summary:** Our team is looking for a Microbiologist to perform microbiological testing on customer samples according to approved laboratory methods using proper manual microbiological procedures and advanced instrumentation.

**Specific Responsibilities:**

* Perform various microbial analyses on customer samples such as total coliform, enterobacteria, *E. coli*, and salmonella using manual plate count and film plate methods following laboratory standard operating procedures and ensuring adherence to quality assurance and quality control requirements.
* Some knowledge in understanding these microogranisms (ie. relation to each other, identification, and sources of growth)
* Perform validation, troubleshooting, and maintenance on new and existing microbial techniques.
* Perform Quantitative Polymerase Chain Reaction (qPCR) methods to detect and quantify pathogens of interest in customer samples. This includes the ability to interpret qPCR data.
* Assess data compliance and validity using established quality assurance and quality control protocol to ensure that all work is performed and documented properly and in compliance with internal procedures and regulatory requirements.
* Use the laboratory’s Laboratory Information Management System (LIMS) to report results obtained from various analyses.
* Provide training for the laboratory staff on microbial and analytical methods and instrumentation.
* Perform new method development and validation under the guidance of the Scientific Director.
* Assist the Scientific Director with project management and other direct analytical needs of the laboratory as needed.
* Work with Scientific Director prepare and review laboratory standard operating procedures (SOPs), forms, and other documentation related to chemical and instrumental analysis.
* Evaluate microbial methods, processes, and instrumentation to identify areas of improvement and development.

**Job Requirements**

**Required Knowledge, Skills & Abilities:**

* Ability to solve complex problems using scientific and quality based troubleshooting techniques.
* Proficient in the operation and troubleshooting techniques of various types of advanced instrumentation employing qPCR methods.
* Strong understanding of quality control procedures necessary for validation of analytical data, keeping detailed and accurate records.
* Proficient with electronic applications including MS Word, MS Excel, etc.

**Required Qualifications:**

* A Bachelor’s Degree from a four-year accredited college or university in the chemical, environmental, or biological sciences and at least six (4) years experience the area of microbiology. An advanced degree is preferred.
* Experience working in a production lab is preferred.
* Demonstrated knowledge of various microbial analytical techniques including manual plate methods and advanced instrumentation, procedures, and QA/QC criteria used in an analytical and/or environmental laboratory.

**Physical Demands:**

* Able to speak and hear clearly while communicating with staff, management, and clients
* Able to sit, and /or stand for 100% of an 8 hour day
* Dexterity in hands and fingers to operate computer and other equipment

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