Job title | Laboratory Microbiology Technician
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Reports to | Laboratory Manager
Location | Little Falls, MN

**Note:** Statements included in this description are intended to reflect in general, the duties and responsibilities of this position and are not to be interpreted as being all-inclusive.

**Job purpose**
The Lab Technician grows and analyzes *Clostridium sp.* fermentations designed to produce bio-butanol and bio-acetone.

**Laboratory 80%**
Set up and monitor lab activities.
- Works assigned 12 hour swing shift including weekends and holidays. Will be required to work overtime.
- Performs laboratory tests in order to produce reliable and precise data to support fermentation.
- Monitors, samples and tests large scale and small scale fermentations.
- Accurately measures each component and electronically documents on required template.
- Enters results into computer database.
- Prepares growth medium and buffers as needed.

**Safety and Maintenance 20%**
Ensures lab is up to code and mandated standards.
- Constructs, maintains and operates standard laboratory equipment.
- Tests lab equipment to ensure all is functioning properly.
- Troubleshoots lab equipment when able.
- Writes up trouble/maintenance tickets as appropriate.
- Keeps lab secure, safe and clean.
- Prepares required lab reports, charts and graphs following designated protocol.
- Ensures the Laboratory is well stocked and resourced.
- Adheres and abides by all safety checks and regulations.

**Qualifications**

**Essential:**
- 2 or 4 year degree in Chemistry, Applied Science, Microbiology, Biology or similar field
- Strong organizational skills to manage and prioritize tasks
- Critical thinking and trouble shooting
- Knowledge of microbiology lab techniques and math skills
- Ability to follow written Standard Operating Procedures (SOPs)
- Ability to lift 50 pounds. May need to crouch, crawl, climb a ladder or walk up stairs for sample collection.
- Work environment may be hot, cold, loud, humid or slippery, and involve toxic or caustic chemicals.

**Desirable:**
- Experience working with microbiological cultures and use of aseptic techniques
- Pilot or production fermentation experience
- HPLC and GC experience

**Physical Demands and Work Environment:**