

<b>Job title</b>	<b><i>Laboratory Microbiology Technician</i></b>
<b>Reports to</b>	<b><i>Laboratory Manager</i></b>

**Job purpose**

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

This position works on a rotating shift schedule

**Laboratory Work**

**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:
  - High School diploma or equivalent
  - Preferred: 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