

About Phycus Biotechnologies

Phycus Biotechnologies is a biobased chemicals manufacturer. We engineer microorganisms to produce chemicals from sustainable feedstocks like sugars, so that we can minimize our collective greenhouse gas emissions. Today, our company has scaled up our technology and is commercializing a process for making glycolic acid, a molecule that is conventionally made from formaldehyde. We make glycolic acid from biobased sources instead, leading to more environmentally friendly products. Come join us and help us use biotechnology to make the world a more sustainable place!

Job Description – Fermentation Scientist/Associate

Phycus seeks a Fermentation Scientist/Associate for our demonstration scale fermentation facility. In this position, you will use good manufacturing practices (GMP) to operate all stages of the process including media prep, fermentation, harvesting, ultrafiltration, precipitation and final purification. You will work with a small, dedicated team responsible for validating our process and microbial strain performance. You will be involved in enabling us to prepare for the commercial scale deployment of our technology and as such must have a mindset for continuous improvement and some understanding of process scaling. Successful candidates will have some previous experience in bacterial fermentation. Ideal candidates are also comfortable with data analytics, including analysis of fermentation data for decision-making. You will have an opportunity to participate in product team meetings and be closely involved with the company's leadership.

EXPERIENCE

Some experience with bacterial fermentation and/or demo-scale processes (e.g. in brewery/distillery settings) is ideal. Compensation will be commensurate with experience.

EDUCATION BACKGROUND

- BAsC (or MASc) in Chemical Engineering
- Fermentation Technologist degree/diploma/certificate
- Chemical engineering technologist degree/diploma/certificate
- BSc in microbiology with fermentation experience

LOCATION

This position is located in Sydney, Nova Scotia.

ESSENTIAL FUNCTIONS

Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

1. Setup, operate, and monitor microbial fermentation processes from start to finish. Assist/coach other operators during operation.

2. Follow established processes and procedures to ensure consistency in operations and quality assurance standards, and to ensure that production demands are met.
3. Perform routine laboratory analysis, including preparation and running of analytical samples on HPLC, gas chromatography, etc.
4. Set up, operate, maintain, and clean machinery including mixing equipment, pumping systems, separation equipment and laboratory analytical equipment.
5. Maintain a clean and safe work area. Address and, when necessary, report safety/cleanliness issues immediately.
6. Adjust and troubleshoot equipment as necessary to maintain and meet production requirements (i.e. pumps, valves, piping, etc.). Identify when equipment needs to be repaired and either perform repairs when reasonable or work with technicians to do so.
7. Measure and prepare raw materials to be used in production processes and batch materials into production vessels.
8. Understand differences between acceptable and unacceptable product and data quality. Regularly report fermentation data in a clear, concise, and meaningful way.
9. Work with others to investigate process non-conformance and identify manufacturing and quality deficiencies.

TO APPLY

Send your resume to euler@phycusbio.com with the subject line “Fermentation Scientist Application” by June 14th, 2021.