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## **SOPHIE'S BIO INC.**

### **Job Opportunity**

#### **Bioprocess Scientist**

Research & Development – Charlottetown, Prince Edward Island

#### **About Sophie's Bio**

Sophie's Bio Inc. is an international biotech startup developing scalable microalgae-based functional protein ingredients to address global food security challenges. Our mission is to make high-quality, sustainable protein accessible worldwide by proving that nutritious food ingredients can be produced locally using straightforward fermentation technology. Operating across four entities in Europe, APAC and now Canada, we combine R&D with practical bioprocess engineering to deliver functional ingredients to the global food industry. We are establishing our Canadian operations in Charlottetown, PEI—home to one of North America's leading bioscience clusters—and currently setting up our laboratory and pilot production operations at the Regis & Joan Duffy Research Centre (UPEI). This is an opportunity to join a lean, international, entrepreneurial small team at the ground floor, where your work directly shapes both the science and the business.

#### **The Opportunity**

Sophie's Bio is seeking a Bioprocess Scientist to support the development and optimization of our microalgae fermentation platform as we transition from bench-scale research and development to pilot-scale production. The successful candidate will execute fermentation experiments, maintain strain collections, and collaborate with our APAC R&D team to translate laboratory protocols into scalable bioprocesses. This position is ideal for a detail-oriented and collaborative scientist who thrives in a fast-paced startup environment where flexibility, problem-solving, and ownership of experimental workflows are essential.

#### **Core Responsibilities**

- Execute bench-scale and small pilot-scale fermentation runs, including setup, inoculation, monitoring, sampling, and data collection
- Maintain strain collections and conduct culture stability testing and seed train activities
- Coordinate with the APAC R&D team on strain cultivation protocols and media optimization experiments



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- Support NRC pilot trials through inoculum preparation, sampling coordination, and process troubleshooting
- Prepare batch reports, experimental records, and sampling plans
- Track culture performance metrics and maintain detailed batch and sample logs to support scale-up decisions
- Collaborate with process engineers on experimental design and data interpretation
- Maintain laboratory operations, including media preparation, equipment calibration, and safety compliance
- Support laboratory administration, including inventory tracking, ordering, receiving supplies, and equipment maintenance

### **Required Qualifications**

- Bachelor's or Master's degree in Biotechnology, Microbiology, Chemical Engineering, or a related field; OR a Bachelor's degree with 1–3 years of practical experience in bioprocess operations
- Hands-on experience with microbial cultivation using shake flasks and/or bench-scale bioreactors
- Strong aseptic techniques and sterile handling procedures
- Excellent organizational skills and a commitment to detailed documentation
- Clear and professional communication skills
- A collaborative and proactive mindset with strong problem-solving abilities
- Eligibility to work in Canada (visa sponsorship is not available)

### **Preferred Qualifications**

- Experience with microalgae cultivation or microbial fermentation processes
- Experience with strain maintenance protocols
- Background in functional ingredients or bioprocess scale-up
- Exposure to pilot plant operations or technology transfer

### **Work Location & Schedule**

This position is based at the Regis & Joan Duffy Research Centre (UPEI) in Charlottetown, Prince Edward Island, with occasional work at partner facilities. Regular on-site work is required. Due to the nature of fermentation processes, flexibility is required to accommodate experimental schedules. Occasional evening or weekend on-site work may be necessary. Remote work may be possible when experiments are not running.



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## Growth & Development Opportunities

Over the next 2–3 years, opportunities may include:

- Advancement to Senior Scientist or Lead roles
- Specialization in areas such as strain development, analytics, or regulatory support
- Participation in the design and commissioning of demonstration facilities

## Why Join Sophie's Bio?

- **Mission-driven work:** Contribute to solving global food security challenges through scalable protein technology
- **Early-stage impact:** Join a team where your work has immediate, visible impact
- **International collaboration:** Work with a globally distributed team spanning Canada, APAC, and Europe
- **Professional development support**
- **Health benefits**
- **Bioscience ecosystem:** Access to Atlantic Canada's leading bioscience cluster, including world-class research facilities and pilot infrastructure
- **Facility development:** Participate in demonstration facility design and commissioning

## Compensation

CAD \$60,000 – \$70,000 per year, commensurate with experience.

## How to Apply

Please submit your resume and a concise cover letter to [olivia@sophiesbionutrients.com](mailto:olivia@sophiesbionutrients.com), with the subject line: Bioprocess Scientist. The cover letter should explain why you are interested in this role and how your experience aligns with Sophie's Bio's mission. Applications will be reviewed on a rolling basis.

Sophie's Bio is committed to building an inclusive team and actively encourages applications from individuals of all backgrounds, including women, Indigenous peoples, members of the 2SLGBTQIA+ community, and other groups historically underrepresented in science and technology.