

Operations and Facilities Unit

Overview

The Bio-Industrial Opportunities (BIO) Section helps to advance the low-carbon circular bioeconomy, create jobs, and stimulate economic diversification by valorizing Alberta's agriculture and forestry biomass. A distinct advantage of using bio-based products lies in the renewable aspect of the feedstock; however, challenges presented by product performance and market access present major barriers against their market adoption. The Operations and Facilities Unit helps industry and academic clients to de-risk their projects by providing essential processing and scale-up capabilities to validate bio-based products and optimize their production before commercialization.

Unmatched infrastructure



The BIO Section offers a complete suite of facilities, equipment and expertise to help companies succeed. We help companies scale up from

laboratory to the pilot scale and offer the opportunity to test and improve proof-of-concept and laboratory processes before committing to full production. The following processes can be carried out at our facilities:

- Wet and dry fractionation
- Extraction and purification
- Freeze drying and spray drying
- Extrusion
- Ozonolysis and hydrogenation
- Pelletization

- Testing and analysis
- Formulation and scale-up production of cosmetic/personal care products
- NHP batching and filling
- Packaging and labeling

An experienced, committed team

The Operations and Facilities team offers clients a deep, multi-disciplinary skill set that is backed by many years of working experience in bio-industrial product development, which is complemented by our commitment to work with passionate stakeholders striving for success.



The team's knowledge, focus, and expertise on technical services help support industrial clients by delivering applied solutions that solve their most difficult challenges. A broad range of in-house expertise, including engineers, technologists, highly skilled machinists, and certified project managers are available to assist in your project.

Contact Us

Gabriel Chemello

Lead, Operations & Facilities

Tel 780-644-8129

Gabriel.Chemello@gov.ab.ca