

# Bio Processing Innovation Centre

## Advancing the Bioeconomy

The Bio Processing Innovation Centre (BPIC) provides technical and business development expertise to entrepreneurs and businesses looking to advance their bio-based projects. We help start-ups and small companies create non-food value-added products such as biomaterials, specialty ingredients, cosmetic and topical natural health products (NHP).



## Interim Processing

BPIC holds a Natural Health Product site license from Health Canada and provides GMP manufacturing services for personal care and topical natural health products. Our Quality Team assists with Health Canada cosmetic and NHP regulations and provides quality control for interim manufacturing activities.



## Bioproduct and Bioprocess Development

Our team can work with you at all stages of product development – from concept to pilot scale-up – where you are potentially looking for advice and expertise. We offer a deep, multi-disciplinary skillset that is backed by many years of working experience in bioproduct development. This is complemented by our commitment to work with passionate stakeholders who are building a sustainable business and striving for success. Our team can assist you with:

- Product formulation and refinement
- Process development and optimization
- Benchtop testing and analysis
- Regulatory consultation
- Industry driven applied research
- Equipment operation and training
- Prototype development
- Physical property testing



We have a broad range of in-house expertise that include engineers, scientists and highly-skilled technologists. Our technical expertise includes:

- Fractionation of agricultural biomass for specialty ingredient extraction.
- Development of biomaterial prototypes for bioplastic and biocomposite applications.
- Development and optimization of spray drying agricultural products (e.g. plant proteins).
- Waste upcycling and utilization.



## Analytical testing

Our O.S. Longman Laboratory offers testing services for clients working on initial formulation, prototype development, and targeted testing and analysis. Offerings include:

- Material property testing (particle size distribution, surface area analysis, thermal properties, spectral characterization, density testing, etc.).
- Composition analysis (protein content, HPLC, UV-Vis, and NIR spectroscopy).
- Shelf-life study.

## Business and industry development

In addition to our technical expertise, we also provide business development services to help advance your projects. Our experience and knowledge base consist of:

- Biomass sourcing and availability
- Food loss and waste prevention
- Organic waste utilization
- Agri-food processing wastewater treatment
- Industrial hemp growth, utilization, and markets
- Biogas and renewable natural gas
- Access to provincial and federal grants
- Provide business connections

## Contact us for more information

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