

Alberta Biomaterials Initiative

Nature Knows Fibre. Alberta Knows Technology.

Agriculture and Forestry's Alberta Biomaterials Initiative supports the commercialization of bio-based materials from Alberta's abundant agriculture, forestry and processing side streams. Biomaterials are a key driver in advancing Alberta's low-carbon economy.

Biomaterials are products made from biomass (hemp, flax and cereal fibres, wood and processing side streams). They offer environmental and health benefits as well as diversifying and enhancing Alberta's economic growth.

The biomaterial industry adds more value at the farm gate and all along the supply chain, keeping profits in the province, creating jobs and regional economic opportunities in both rural and urban Alberta.

The Alberta Biomaterials Initiative will help you and your company develop and launch new bio-based products. How? By helping you navigate the pathway to commercialization using Alberta-grown biomass and the province's equipment and expertise. Diverse markets include green building, erosion control, land reclamation, textiles, sustainable packaging, automotive, and oil and gas industries.

In addition to Alberta's abundant biomass resources and scale-up/pilot-plant capacity (including North America's largest R&D Bast Fibre processing capacity for hemp and flax), a robust suite of technical and business services and connections to financial incentives are available to help you achieve your vision.

We collaborate with Albertan, Canadian and international companies, regional alliances and industry support agents to advance material biocluster developments in Alberta. We enable value-chain connections to help foster development of product ideas and technologies.

Our goal is the sustained development of a diverse biomaterials industry in Alberta adding value to Alberta-grown biomass and enhancing economic growth.



Alberta Biomaterials Initiative

The Alberta Biomaterials Initiative team works with you to:

- Advance new and emerging products and technologies
- Create renewable products contributing to low environmental impact
- Establish primary processing capacity in Alberta fibre supply chains, including hemp and flax
- Access high-value market opportunities with upward-trending growth
- Find pathways to link you to material supply, research, equipment, technical expertise, and market and funding information
- Enable value chain and cluster connections and symbiosis
- Contribute to rural development growth and investment in Alberta
- Promote bio-based solutions for a circular economy

Alberta Biomaterial Initiative Projects and Collaborations:

- Unleashing Value of Industrial Hemp in Alberta
- A Tutorial on Alberta's Hemp Food, Beverage and Biomaterial Manufacturing Opportunities
- Textile Business Directory and Retail Demand Study for Hemp and Flax
- Hemp Absorbents for Industrial and Consumer Markets
- Sustainable Packaging – Alberta Opportunities
- Industrial Hemp Seed Production Costs and Returns in Alberta, 2015
- Meeting Green Building Product Requirements: An Analysis Tool and Case Study

For more information contact the Biomaterials Team:

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Alberta-grown Products



Just BioFibre Structural Solutions - Super SSR® modular hemcrete block wall system with biocomposite structural supports



Synermulch Erosion Control Products Inc. - Hydro seeded flax erosion control product



BioComposite Group Inc. - Terrafibre® hemp & flax fibre mats for automotive biocomposite door panels



Canadian Greenfield Technologies Corp. - NForce-Fiber® hemp fibre reinforcement for concrete