

Bioproduct Solutions

The Alberta Biomaterials Development Centre (ABDC) provides clients with product development and commercialization expertise for the creation of innovative bioproducts. Product development expertise ranges from quality assurance, to plastics and composite material blending, extrusion and injection molding design. ABDC experts address the areas of structural and non-structural building materials, material characteristic profiling and cellulose fibre research. This enables the commercialization of high-performance sustainable bioproducts that advance current industry standards.

Services & Technology

- Biocomposite development
- Waste material research
- Panel manufacturing pilot plant
- Fibre processing pilot plant
- Preheater and microwave technology
- Steam injection pressing
- Biopolymers
- Pulp and paper processing pilot plant



From Concept to Commercialization

Alberta is a leader in biomaterial development and is positioned to enable businesses to excel in innovation with its abundant crop and forestry resources, technological advancements and oil and gas industries. Using agriculture and forestry biomass, ABDC experts provide tailored approaches for the commercialization of biomaterials.

Innovative Approaches and Products

ABDC drives and transforms the development of biomaterials by linking research and development activities to rapidly commercialize new bioproducts. This approach enables businesses to develop and provide innovative green products for a better quality of life.

Natural Fibre Reinforced Plastics

Biocomposites are made with natural fibres and resin to create green products. ABDC's biocomposite team has the technology and expertise to help demonstrate and commercialize high performance biocomposite products.

- 1 Thermoset Biocomposites
- 2 Thermoplastic Biocomposites

