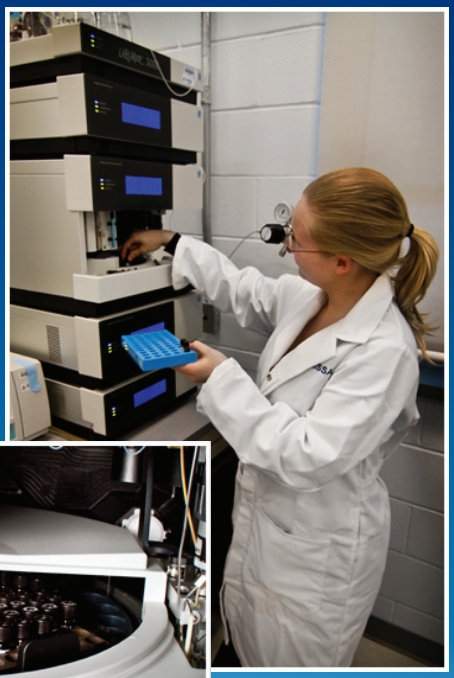
ABDC

Biochemical Innovation

Experts at the Alberta Biomaterials Development Centre (ABDC) facilitate the conversion of forestry and agricultural fibres into biochemicals and link with partners such as the Biorefining Conversion Network to provide tailored approached to research and development. Biochemicals are plant-based substances now used to replace petrochemicals in new product development, while enhancing performance and improving economics. ABDC has the capability to develop economically viable and environmentally friendly refining processes for the biochemical industry.

Services & Technology

- Structure characterization
- Treatment and derivatization of cellulose
- Catalyst use efficiency
- Component separation
- Biomass modification
- Alkaline processing
- Ozonolysis-hydrogenation plant
- Polyol pilot plant



Facilitating Growth of Biochemicals

Agriculture and forestry biomass is an excellent and sustainable chemical source because it is readily renewable, potentially biodegradable and economical. With demand increasing for biochemicals, ABDC is committed to facilitating growth of this industry by providing opportunities for research and development and the application and scale up production of biochemicals.

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Industrial Biochemical Processing

Biochemical processing leads to the creation of bioplastics, polymers, coatings, insulation and a whole array of high performance biochemicals that can be derived from plants. ABDC technology creates possibilities for the processing and application of biochemicals.