BIOPRODUCTS DISCOVERY AND DEVELOPMENT CENTRE, UNIVERSITY OF GUELPH, DEPARTMENT OF PLANT AGRICULTURE

Foundation
- 2008

Employees
- 25

Key materials
- Bio-based materials

Key products/services
- Research
- Development

Contact

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Centre

The Bioproducts Discovery and Development Centre (BDDC) is a research and development service provider, situated within the University of Guelph, Guelph, Ontario, Canada. This well resourced facility, unique to Ontario, provides opportunity for companies, entrepreneurs, and research organizations to partner with university-based researchers toward development of commercial new biomaterials, biochemical and process technologies. The BDDC is staffed by graduate and post-doctoral students working in the areas of polymer science, chemical engineering, applied microbiology and advanced material science.

Services

Commercial application of research results is a guiding principle for the BDDC. Innovations coming from the BDDC help companies in their efforts to reduce greenhouse gas emissions and their environmental footprint. The BDDC offers an extensive array of services for companies interested in the areas of:

- Bioplastics and bio-based Polymers
- Green Composites, Natural Fibre Composites and Biocomposites
- Sustainable Packaging
- Bio-based Nanocomposites and Nanoblends
- Lignin-Filled Thermoplastics and Thermosetting Polymer Composites
- Bio-based Materials from the Co-Products and Byproducts of Biofuel Industries
- Biomass and Biomaterials Sustainability
- Recyclability, Durability and Biodegradability Studies
- Sustainability of bio-based Materials

Undertaking R&D work at the BDDC allows companies to access a range of pilot-scale processing and characterization equipment including:

- Twin-screw extruder, injection molder, micro-compounder and mini injection molder, hot press, micro cast and blown film line, kinetic mixer, electrospinning
- TGA, DSC, DMA, UV-Vis & FTIR spectroscopy, universal testing machines (Instron), impact tester, and GPC, GC, density meter, melt flow index, optical microscope Aerobic biodegradability testing unit

Free access to online database with detailed index: www.bio-based.eu/iBIB