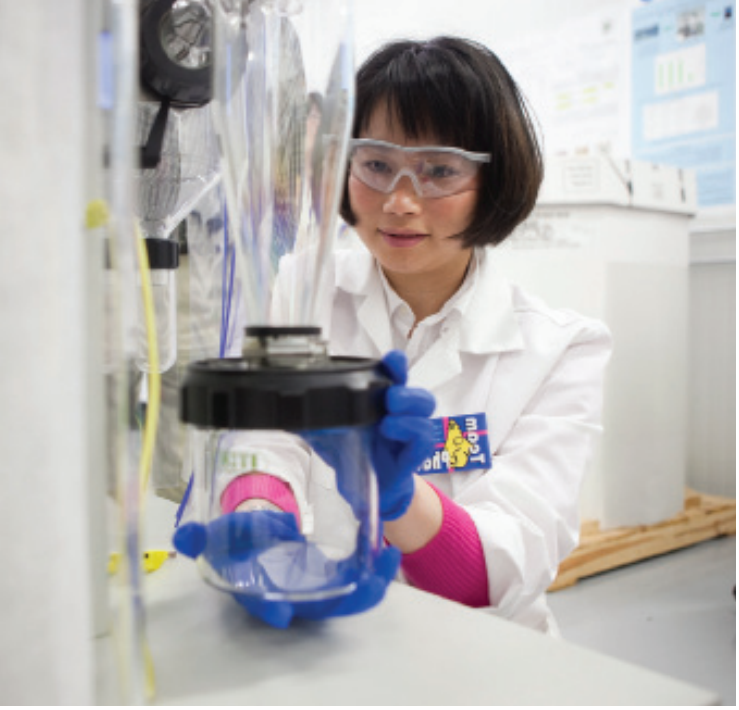
BIOPROCESSING PILOT PLANT

The bioprocessing pilot plant (BPP) is a research facility within the College of Agriculture and Bioresources at the University of Saskatchewan (U of S). This facility houses over $1.2 million in new industrial-grade scientific equipment designed to isolate and extract compounds from various plants and crops. Such compounds are further studied or applied in industry, such as biofuels, crop development and natural health products.

The unique equipment in the BPP enables faculty and graduate students to conduct specialized teaching and research in areas including the design of new drugs and vaccines, food and bioproducts, human and animal health, among others. It is available for collaborative research projects and educational opportunities for colleges across campus as well as industry partners.

University of Saskatchewan
College of Agriculture and Bioresources



Funding

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Research

Bioprocessing is the processing of biological materials with an aim to identifying and isolating low-concentration high-value constituents for research and possible further development potentially leading to commercialization.

The new integrated facility will help scientists and industrial partners to develop and enhance innovative industrial processing of agricultural materials. Research conducted in the BPP can be taken directly to industry where it can be commercialized. With its 'industrial scale-up' tools, the bioprocessing pilot plant is the ideal facility from which many areas of crop utilization research can be supported.

The plants and crops to be examined at the BPP at the U of S are primarily, but not exclusively from Western Canada.

Benefits

The new equipment's various functions will allow continued research, increase productivity and teaching capacity and support the creation of new spin-off businesses in the growing food and bioproducts sector.

The equipment will allow extractions and chemical modification to be conducted under various conditions. The new capability has the capacity to isolate significant quantities of compounds while achieving purity levels previously unattainable at this scale at the U of S.

The bioprocessing pilot plant will bring in new research funding, new researchers, new grad students and more education opportunities for students.

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