

SEREX (SEREX)

Cégep de Rimouski

📍 Amqui, QC

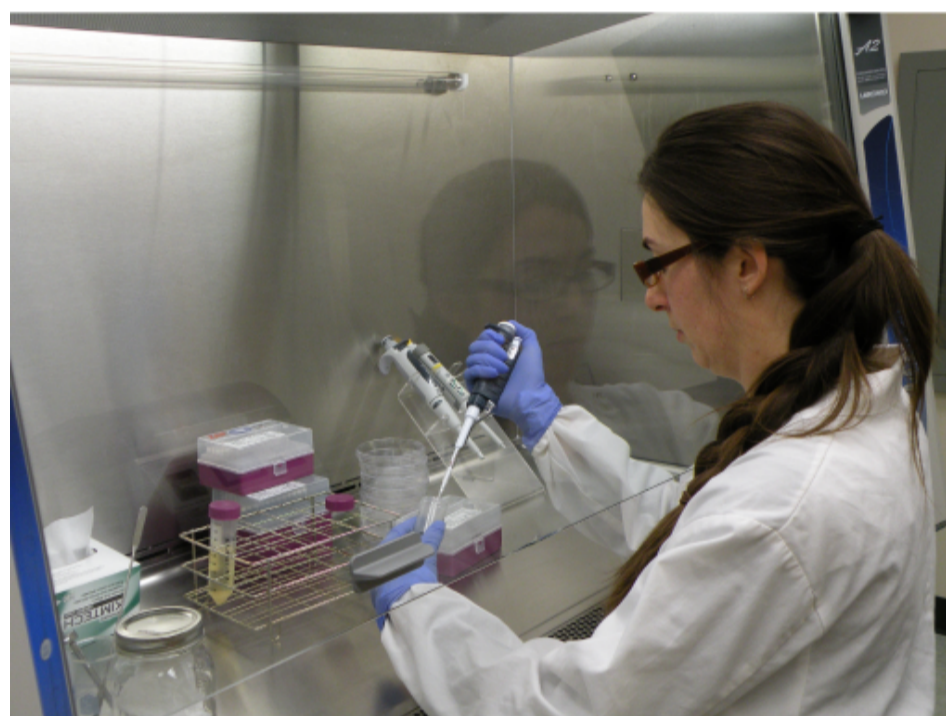


ABOUT SEREX

SEREX assists companies working in the field of forest products processing. It has chosen to develop its expertise in the fields of wood processing, sustainable chemistry, eco-construction and biomass energy in order to meet the needs of its clients.

For more than 20 years, SEREX has offered incomparable access to specialized and cutting-edge know-how to meet the industry's needs in the valorization of lignocellulosic fibres and wood. The SEREX team is composed of researchers, engineers, technicians and teachers who combine expertise and experience. Each of our professionals works in specific fields of expertise in order to offer a service adapted to the needs of our customers.

Our experts aim to provide answers to industrial issues and offer companies innovative technological solutions and know-how to help them meet the challenges of tomorrow.



Contact SEREX

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🗣 **Services offered in:** English and French

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RESEARCH AND INNOVATION EXPERTISE

EXPERTISE

1. Processes and transformation of wood material and its co-products
2. Chemical bioproducts from forest biomass
3. Biomass energy and thermochemical conversion (pyrolysis)
4. Performance testing of wood and associated materials
5. Bio-sourced building materials
6. Building envelope monitoring and testing
7. Indoor air and environmental quality of buildings
8. Technical and commercial services
9. Training
10. Dissemination of technology

Previous Research Projects

- **Wood processing:** Our experts develop new biological, biochemical and thermomechanical approaches to improve the properties and performance of wood products and their use. The materials used, as well as the products developed, are tested and characterized.
- **Sustainable chemistry:** Our work is mainly oriented towards the development of technologies for extracting, separating and chemically modifying wood components in order to design bioproducts that can replace those derived from petroleum (biofuel, biofuel, biosourced membranes, etc.), while being efficient and with a low environmental footprint.
- **Écoconstruction:** We develop high-performance, innovative wood-based materials with a low environmental footprint, taking into account their mechanical and energy performance.
- **Biomass energy:** We are able to cover all aspects of the value chain of wood fiber energy products, from packaging, characterization, processes and energy performance of lignocellulosic biomass to the analysis of air emissions.

Fields of projects

- | | |
|---|--------------------------------------|
| • Wood Characterization | • Resins and adhesives |
| • Characterization of lignocellulosic biomass | • Drying of wood |
| • Wood modification | • Wood treatment |
| • Manufacture of panels and composite materials | • Valorization of the forest biomass |

