

Eric Desnoes

PhD candidate - Entrepreneur



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SKILLS

Organic chemistry: Organic chemistry synthesis and polymers synthesis (lignocellulosic compounds, vanillin, guaiacol, cellulosic fibers surface modification), distillation, purification techniques, and biomass refining.

Chemical analysis: Spectroscopy: UV-Vis and fluorescence, Infrared, NMR (^1H , ^{13}C , ^{31}P). Chromatography: HPLC, GC-MS, GPC/SEC. Thermal and mechanical characterization methods: DMA, DSC, TGA.

Microbiology and biotechnology: Biosafety Level 2. Fundamentals of microbiology and biotechnology. Production in bioreactors.

Enzymology: Enzymatic and microbial chemistry, protein engineering. Industrial and therapeutic applications.

Others: Equipment maintenance (GC-MS, HPLC), (Chemdraw, Mestrenova, Omnic, TA Universal Analysis, Chromeleon), Biosafety Level 2.

EXPERIENCE

Algoméga

2019 - 2020

Student-Entrepreneurship program- Mitacs accelerate

Project VERTECH is an industrial ecology and circular economy, located in the City of Victoriaville's industrial park. We are developing a circular economy project with the different stakeholders through a MITACS entrepreneurship program.

Innofibre

2019 - 2020

Lab technician

Innovative Paper production for antimicrobial and antiviral application. Microalgae fermentation processes, *Picea mariana* bark extract formulation to produce sanitary products. Microalgae fermentation.

Université du Québec à Trois-Rivières

2020

Assistant Professor -experimental organic chemistry

Teaching experience in an organic chemistry laboratory course to develop laboratory skills and familiarity with methods and instruments relevant to organic chemistry.

2018 - 2020

Voluntary organizations: Expérimentarium & BaccVert

The Experimentarium network aims to spread the "art of meeting". Researchers are trained to share their activities in 20-minute workshops-meetings. BaccVert: an environmental association in the university towards plastics recycling.

EDUCATION

Université du Québec à Trois-Rivières (UQTR), CANADA

2017 - 2020

Philosophy doctor (PhD) Energy and Materials Science:

Development and synthesis of bio-based thermosetting resins (lignin phenol extracts) and composites formulation for industrial applications.
<https://doi.org/10.1002/pen.25497>

Université de Nantes, France

2015 - 2017

Master's degree Bio sourced polymers and active ingredients

INRA: Synthesis and characterization of polyester resins from industrial food waste. <https://doi.org/10.26434/chemrxiv.12608789.v2>
CNRS: Lignin depolymerization by enzymatic catalysis to obtain phenolic substances.