

NATIONAL CENTER FOR ELECTRO-CHEMISTRY AND ENVIRONMENTAL TECHNOLOGIES (CNETE)

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Tech-Access Canada



SERVICES OFFERED IN:

English and French



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CNETE conducts applied research in the fields of bioprocesses and membrane technologies, applied to industrial molecules, environmental technologies and bioenergy production, contributing to the improvement and development of environmental friendly processes and products. The center has a large fleet of high level analytical and processing equipment, ranging from laboratory scale to pilot scale, and the center's work creates spillover effects that benefit college education.

AREAS OF INNOVATION EXPERTISE

- Industrial bioprocesses (membrane filtration and electrochemistry)
- Analytical chemistry and nanotechnology
- Membrane technologies
- Gas and GHG treatment
- Biomethanization

Affiliated with Shawinigan College

TECHNICAL AND BUSINESS SERVICES

- Commercialization referrals
- Early-Stage Business Development
- Facilitation service (introduction)
- Ingredient selection and recommendations
- IP Protection facilitation
- Market analysis
- Marketing Advisory Services referrals
- Problem solving
- Product testing
- Regulatory guidance
- Reverse engineering
- Scientific and technological monitoring
- Scientific report writing
- Technology development
- Technology evaluation / validation
- Testing Services

APPLIED RESEARCH AND DEVELOPMENT

- Design of Experiment
- Performance monitoring and analysis
- Pre-clinical development (chemistry & analytical biochemistry, metabolomics, pharmaceutical science, cell biology & microbiology)
- Regulatory guidance
- Report preparation on R&D results

TRAINING

- Curriculum development
- Design, development, and delivery of customized training
- Training planning

TECHNOLOGY DIFFUSION

- Literature Review
- Presentation of results at conferences
- Seminars and Workshops
- Technical publications

INVENTORY OF SPECIALIZED EQUIPMENT

- Agarose and polyacrylamide gel electrophoresis system
- Anaerobic chamber
- Atomizer (spray dryer)
- Autoclave
- Automatic Titrator
- Biological Hood
- Centrifuge 5424R

- Centrifuges
- Ceramic filtration systems from 1 to 21 membranes (from 0.35 to 7.35 m² surface area)
- Corrosion chamber
- Densitometer
- Digester and distiller Kjeldahl
- Digesters 300L (5), 7L (6)
- Electronique scanning microscope
- Elementary Analyzer
- Exclusion chromatograph
- Fermenter 700L, 40L, 1L, 10L, 2L
- Four Hybridization
- Freeze dryer 12L and 50L
- Gas and hydrocarbon analyzer
- Gas purification system (HTGS)
- GC-FID
- GC-MS
- GC-TCD
- Hollow fiber production system
- Homogenizers
- HPLC-UV/RI
- ICP-OES (2)
- Ion Chromatograph FTIR
- Laboratory-scale electrochemical bank (7,5 kW)
- LC-MS
- Metalliser
- Multipurpose
- Nanosight
- Organic filtration systems ranging from 1 * 2 "to 2 * 8" (ranging from 2.6 to 74 m² surface)
- PCR
- PCR gradient
- Photocatalyst industrial (2)
- Pilot scale electrochemical bank (25kW)
- qPCR
- Rotoevaporator
- Sonicator
- Spectrometer, grinder and fluorescence press X
- Static Incubators (3)
- Stirring incubators (6)
- Thermogravimetric Analyzer (TGA-MS)
- Thermomixer
- Titrer Karl Fisher
- Total organic carbon
- UV / Visible Spectrophotometer
- UV loudspeaker
- Vacuum Furnace
- Viscosimeter
- Drying oven for dry matter
- Furnace for volatile suspended and ash