

TACs Interactive Visits

Interactive Visits

The Interactive Visit program provides NRC-IRAP-eligible firms with up to 20 hours of access to the equipment, facilities, and expertise of a Technology Access Centre (TAC) in Ontario to solve an innovation challenge identified by the firm.

Technology Access Centres

TACs are specialized applied research & development centres affiliated with publicly-funded colleges. TACs help innovative Canadian firms get their products, processes and services market-ready by:

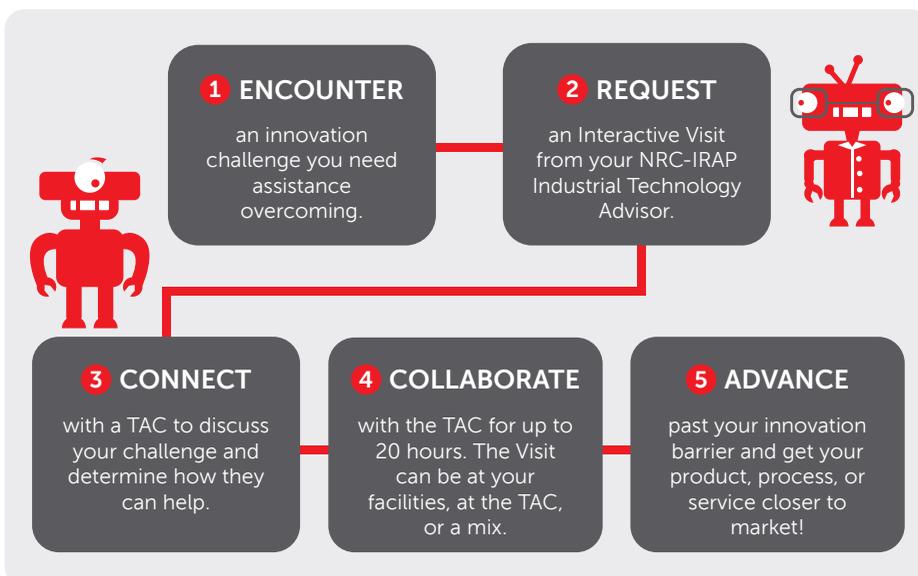
- conducting applied research and development projects focused on company problems;
- offering specialized technical services and objective advice; and
- providing training related to new types of equipment and processes.

The Goal

The goal of an Interactive Visit is to provide an initial collaborative engagement between a firm and a TAC to overcome a barrier. Some potential Interactive Visits:

- Providing a firm with access to cutting-edge technology they do not have in-house;
- assessment of new technologies that may be utilized by a firm to improve productivity;
- guidance on the selection of specialized technical equipment;
- assessment of facilities ahead of regulatory inspections;
- technology implementation assistance to drive innovation;
- sharing strategic information and advice;
- helping firms understand other sources of funding to take their project to the next step.

The Process:



In Sarnia, the **Bluewater Technology Access Centre** assessed the potential performance of corrosion inhibitors/protectants for a manufacturing firm.

In Ottawa, the **Bio-innovation Technology Access Centre** assisted a health product producer with an action plan for the development of an energizing cream.

In Lindsay, the **Centre for Alternative Wastewater Treatment** aided a mining service firm in the development of a unique underground weir for collecting and filtering mine water into a closed system so that the mine can reuse the water.

In Niagara-on-the-lake, the **Canadian Food & Wine Institute Innovation Centre** assisted a brewery to determine possible causes of yeast haze in their conical fermenters post fermentation.

In Toronto, the **Food Innovation Research Studio** aided a food producer to identify and quantify the target market for a new and innovative pain relieving drink.

In Hamilton, the **MEDIC Technology Access Centre** for Digital Health helped a health technology firm integrate with key Electronic Medical Records for their referral service solution.

In Welland, the **Walker Advanced Manufacturing Innovation Centre** scanned the interior and exterior of a boat prototype in 3D for a marina.

In Toronto, the **Screen Industries Research and Training Centre** assisted a virtual reality firm with real-time capture of multiple characters with the ability to produce a virtual reality experience in 360 degrees.

In Scarborough, the **Wearable, Interactive and Mobile Technologies Access Centre** in Healthcare helped a safety equipment manufacturer create a wearable product capable of supporting integrated advanced components.

POINT OF CONTACT



Affiliated with Lambton College

Mehdi Sheikhzadeh

Dean, Applied Research and Innovation
 Phone: (519) 542 7751 x. 3592
 Email: mehdi.sheikhzadeh@lambtoncollege.ca
 Sarnia, ON



Affiliated with La Cité

Charles-André Massebeuf

Partnership Development Advisor
 Phone: (613) 742-2483 x. 2239
 Email: ChMasse@lacitec.on.ca
 Ottawa, ON



Centre for Alternative Wastewater Treatment

Affiliated with Fleming College

Jenn Paul

Manager, Projects & Partnerships
 Phone: (705) 324-9144 x. 3068
 Email: jenn.paul@flemingcollege.ca
 Lindsay, ON



Affiliated with Niagara College

Kristine Canniff

Research Project Manager
 Phone: (905) 641-2252 x. 4198
 Email: kcanniff@niagaracollege.ca
 Niagara-on-the-Lake, ON



Affiliated with George Brown College

Michelle Kienitz

Manager, Industry Liaison & Business Development
 Phone: (416) 415-5000 x. 5575
 Email: Michelle.kienitz@georgebrown.ca
 Toronto, ON



Affiliated with Mohawk College

Paul Brown

General Manager, MEDIC
 Phone: (905) 575-1212 x. 4075
 Email: paul.brown9@mohawkcollege.ca
 Hamilton, ON



Screen Industries Research and Training Centre

Affiliated with Sheridan College

David Dexter

Operations & Business Development Lead
 Phone: (905) 815-4170 x. 8407
 Email: david.dexter@sheridancollege.ca
 Toronto, ON



Affiliated with Niagara College

Jim Lambert, C.E.T.

Centre Manager
 Phone: (905) 735-2211 x. 7177
 Email: jlambert@niagaracollege.ca
 Welland, ON



Affiliated with Centennial College

Jeziel Vidad

Innovation Program Manager
 Phone: (416) 289-5070 x. 8594
 Email: JVidad@centennialcollege.ca
 Toronto, ON

Don't have an NRC-IRAP Industrial Technology Advisor?

The National Research Council's Industrial Research Assistance Program (NRC-IRAP) is a federal government program designed to provide innovation support and funding to accelerate the growth of small Canadian businesses.

The Interactive Visits program is open to all NRC-IRAP-eligible Canadian firms:

- a small or medium-sized enterprise in Canada, incorporated and profit-oriented;
- 500 or fewer full-time equivalent employees; and
- the objective to grow and generate profits through development and commercialization of innovative, technology-driven new or improved products, services, or processes in Canada.

If your firm would like to participate, and you don't have an ITA, the first step is calling NRC-IRAP at **1-877-994-4727** to chat about your firm, your goals, and your eligibility to participate. If approved, you'll be assigned an ITA to work with.

Tech-Access Canada gratefully acknowledges the ongoing support of the National Research Council's Industrial Research Assistance Program (NRC-IRAP) to enable this initiative.

BLUEWATER TECHNOLOGY ACCESS CENTRE (BTAC)

Proud member of
Tech-Access Canada



SERVICES OFFERED IN:

English



ADDRESS:

1086 Modeland Road
Building 1010, Sarnia ON N7S 6L2



WEBSITE:

www.lambtoncollege.ca/BTAC



POINT OF CONTACT:

Mehdi Sheikhzadeh
Dean, Applied Research and Innovation
Phone: (519) 542 7751 x. 3592
mehdi.sheikhzadeh@lambtoncollege.ca

Affiliated with Lambton College

BTAC is a One-Stop-Innovation Hub that supports the manufacturing and fabrication industry, businesses and organizations with access to expertise – students, faculty and infrastructure at Lambton College. Emphasis is on product and process development and/or improvement. These collaborative projects between companies and Lambton College create an enriching student learning experience, train highly qualified personnel and support innovation within organizations.

AREAS OF INNOVATION EXPERTISE

- Additive manufacturing (laser sintering and fused deposition modeling) including printing prototypes and end use parts
- Precision metrology (including reverse engineering, inspection, and alignment) with portable metrology equipment
- Manufacturing process design and improvement
- Advanced materials engineering
- Process design, control and optimization
- Fire exposure and heat testing (largest site in Canada)



TECHNICAL AND BUSINESS SERVICES

- Business Mentorship referrals
- Commercialization referrals
- Competitive assessments
- Components/parts fabrication
- Concept ideation & design review
- Consumer focus groups

- Design services
- Fabrication, Prototyping and Installation Services
- Facilitation service (introduction)
- Field trials/simulation
- Ingredient selection and recommendations
- IP Protection facilitation
- Literature reviews
- Marketing Advisory Services referrals
- Performance Monitoring and Management
- Product testing
- Project management
- Proof of concept
- Rapid prototyping / 3D printing
- Sample analysis & testing
- Scientific and technological monitoring
- Technology & workflow consultation
- Technology evaluation / validation

APPLIED RESEARCH AND DEVELOPMENT

- 3D design & rapid prototyping
- 3D Printing services
- Composite manufacturing
- Design of Experiment
- Human Factors Studies
- Industrial scale prototyping
- Laboratory/pilot scale prototyping
- Manufacturing process design and development
- Measurement inspection and alignment
- Performance monitoring and analysis
- Pre-commercialization
- Product design & development
- Product re-design & Improvement
- Provincial and federal grant proposal development
- Report preparation on R&D results
- Reverse engineering
- Robotics and automation and imaging
- Technology transfer
- Technology validation

TRAINING

- Connections to co-op placement opportunities
- Corporate on-site & in-house training
- Curriculum development
- Design and delivery of customized training
- Interactive workshop sessions
- Needs assessment and gap analysis
- Qualitative & quantitative research
- Skills assessment/Competency evaluation
- Train the trainer

TECHNOLOGY DIFFUSION

- Customized technology demonstrations
- Field site product demonstration
- Industry-specific events & symposia
- Networking events
- Open houses - Testing facility & personnel
- Participation at trade shows & other venues with or on behalf of partners
- Presentation of results at conferences
- Publishing in Peer Reviewed Literature
- Rental of space & equipment
- Seminars and Workshops

INVENTORY OF SPECIALIZED EQUIPMENT

- Additive Manufacturing (3D Printing) Equipment
 - EOS Formiga P110 SLS 3D Printer (selective laser sintering)
 - Stratasys uPrint SE Plus 3D Printer (fused deposition modeling)
 - UP 3D printer (fused deposition modeling)
- Advanced Material Processing Equipment
 - Leistritz Twin Screw Extruder, pilot scale
 - Xplore Micro Compounder
 - Kawaguchi KM 50 injection molder
 - PHI press
- Advanced Material Testing Lab
 - Scanning Electron Microscopy; Atomic Force Microscopy; Thermal Analysis Units; Scanning Electrochemical Microscopy; Advanced Goniometer/Tensiometer; Dynamic Mechanical Analysis; Fourier Transform Infrared Spectroscopy; Particle Size Analyzer; Qualitest Test Sample Clicker Press; Tinius Olsen Testing Machine; CSI IZOD Impact Tester; Gardner Impact Tester; Maple Instruments Rheological Dynamic Analyzer
- Fire Ground – training and research facility: fire tower (residential prop), industrial (mainly oil and gas sector) props, burn cells, emergency management scenarios, hazardous materials scenarios
- Portable Metrology Equipment
 - FARO Edge, 9 ft (2.7m), 7 Axis
 - FARO Laser Line Probe HD
 - FARO Vantage Laser Tracker
- Bio Analytical laboratory infrastructure
- Control, Instrumentation, Automation laboratory infrastructure
- Electrochemical and Nano Material lab infrastructure
- Water Centre laboratory infrastructure

TECHNOLOGY ACCESS CENTRE IN BIO-INNOVATION (TAC-B)

Proud member of

Tech-Access Canada



CENTRE D'ACCÈS À LA
TECHNOLOGIE EN BIO-INNOVATION



SERVICES OFFERED IN:

English and French



ADDRESS:

Room B3160.33, 801 Aviation Parkway
Ottawa, ON K1K 4R3



WEBSITE:

[recherche.collegelacite.ca/en/
fields-of-research/bio-innovation](http://recherche.collegelacite.ca/en/fields-of-research/bio-innovation)



POINT OF CONTACT:

Charles-André Massebeuf
Partnership Development Advisor
Phone: (613) 742-2483 x. 2239
Email: ChMasse@lacitec.on.ca

The TAC in Bio-Innovation supports Canadian businesses in realising applied research projects leading to the creation of new products and processes or the optimization of existing technology in the areas of industrial biotechnology, biopharmaceuticals and agri-food.

AREAS OF INNOVATION EXPERTISE

- Agri-food
- Analytical Chemistry
- Bioinformatics
- Bioprocesses
- Biotechnology
- Genetic Engineering

Affiliated with La Cité



TECHNICAL AND BUSINESS SERVICES

- Advanced welding support for product development
- Assistance with building products approvals and commercialization
- Business Mentorship referrals
- Early-Stage Business Development
- Facilitation service (introduction)
- Literature reviews
- Problem solving
- Product testing
- Proof of concept
- Scientific report writing



APPLIED RESEARCH AND DEVELOPMENT

- Coaching
- Concept validation
- Design of Experiment
- Laboratory/pilot scale prototyping
- Manufacturing process design and development
- Pre-clinical development (chemistry & analytical biochemistry, metabolomics, pharmaceutical science, cell biology & microbiology)
- Process Optimization
- Product Design & Development
- Product Re-design & Improvement
- Technology Validation and Transfer



TRAINING

- Corporate on-site & in-house training
- Design, development, and delivery of customized training



TECHNOLOGY DIFFUSION

- Industry-specific events & symposia
- Rental of Space and Equipment



INVENTORY OF SPECIALIZED EQUIPMENT

- Analytical chemistry:
 - Mass spectrometer MS MS AB Sciex (3200 Q Trap) Coupled with HPLC-UV/VIS LC Shimadzu (LC-20AD, DGU-20A3R, SIL-20ACHT)
 - HPLC-UV/VIS Varian (920-LC)
 - Ion chromatograph Thermo Scientific (Dionex ICS-5000 DC, Dionex ICS-5000 SP Dionex AS-AP)
 - Atomic absorption spectrometer Varian (AA240)
 - GC-MS (with head space) Agilent (6890N/5975C)
 - GC-FID Agilent (7890A)
 - Capillary electrophoresis Agilent (HP 3D CE)
 - Differential scanning calorimeter (DSC)

- PerkinElmer (JADE)
- Near-Infrared (FT-NIR) Bruker (TANGO spectrometer)
- Cell culture BSL2 facilities:
 - Laminar Flow Hoods
 - CO2 incubators
 - Inverted microscopes
 - Fluorescence microscope OLYMPUS (BX53F)
 - Stereomicroscope OLYMPUS (SZX-16)
 - Growth chamber VWR
- Elemental analysis:
 - Kjeltex digester and distillator (N) FOSS (Kjeltex 8000)
 - Combustion Dumas (CNS) LECO (TruSpec CN, TruSpec S)
- Genetic suite:
 - PCR BIO-RAD (S1000 Thermal Cycler)
 - PCR DNA Engine (3) MJ Research (PTC 200)
 - Gel imager BIO-RAD (Molecular Imager Gel doc XR +)
 - DNA sequencer ABI 3500
 - RT-PCR BIO-RAD CFX 96
 - DNA Extraction EZ1 robot
- Microbiology BSL2 facilities:
 - Biolog GEN III OmniLog Combo Plus System
 - Anaerobic chamber Plas Labs
 - Incubator shaker Fisher (MaxQ)
- Nutritional analysis:
 - Fiber analyzer Ankom (A-200)
 - Soxhlet extraction unit Foss (Soxtec 2045)
 - Rancimat Metrohm (892 Rancimat)
 - Water activity meter Neutec (Lab Master.aw)
- Particules analysis:
 - Multisizer Z4 (20, 30, 50, 100 et 2 000 µm aperture) Beckman Coulter (Multisizer 4)
- Recombinant protein production and purification BSL2 facilities:
 - Bioreactors 1-L (3) Applikon (Z61101C004)
 - Bioreactors 7.5-L (2) Labfors (Infors)
 - Photobioreactor 1.9-L Lux 5 flat panel (Infors)
 - Photobioreactor 2-L Labfors 4 + labfors Lux module (Infors)
 - FPLC BIO-RAD BioLogic
- Sample preparation:
 - Grinder Retsch (Zm 200)
 - Freeze-dry System (Lyophilizer): Labconco (FreeZone)
- Spectroscopy/Fluorescence:
 - Spectrophotometer BioTek (SynergyMx)
 - Spectrophotometer Varian (Eclipse)



**Centre for Alternative
Wastewater Treatment**



SERVICES OFFERED IN:

English, Mandarin, Polish, German



ADDRESS:

Fleming College 200 Albert Street S.
PO Box 8000, Lindsay ON K9V5E6



WEBSITE:

<http://www.cawt.ca>



POINT OF CONTACT:

Jenn Paul
Manager, Projects & Partnerships
(705) 324-9144 x. 3068
jenn.paul@flemingcollege.ca

The Centre for Alternative Wastewater Treatment (CAWT) strives to become a leader in the research, development, improvement, and commercialization of new water-related technologies and solutions. Working with industry partners from emerging concepts to real world applications, it is our goal to turn innovative ideas into market advantage for a cleaner world.

AREAS OF INNOVATION EXPERTISE

- Water treatment
- Wastewater treatment

Affiliated with Fleming College

TECHNICAL AND BUSINESS SERVICES

- Business Mentorship referrals
- Commercialization referrals
- Design Services
- Facilitation service (introduction)
- IP Protection facilitation
- Logistics
- Marketing Advisory Services referrals
- Performance Monitoring and Management
- Problem solving
- Product testing
- Project Management
- Proof of concept
- Regulatory guidance
- Sample analysis and testing
- Scientific and technological monitoring
- Scientific report writing
- Scientist/Engineer/Technologist Labour
- Technology development
- Technology evaluation / validation
- Testing Services
- Venture Capital referrals

APPLIED RESEARCH AND DEVELOPMENT

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

TRAINING

- Customized corporate on-site & in-house training

TECHNOLOGY DIFFUSION

- Evening speaker series
- Field site product demonstration
- Industry-specific events & symposia
- Participation at trade shows & other venues with or on behalf of partners
- Presentation of results at conferences
- Publishing in Peer Reviewed Literature
- Seminars and Workshops

INVENTORY OF SPECIALIZED EQUIPMENT

- 1800 UV Vis (double beam spectrophotometer)
- 20 ponds used for lagoon trials.
- Bactron IV-900 (Anaerobic Chamber)
- Bx-43f (microscope with digital camera)
- CAP 7400 DUO (Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES))
- Environmental chamber that simulates precise climate conditions.
- EVOQ Cube (Liquid Chromatography - Tandem Mass Spectrometry (LC-MS/ MS))
- FLASH 2000 Elemental Analyzer (Carbon, Nitrogen and Sulfur analyzer (CNS))
- FLUOstar Omega (Luminometer)
- ICS- 1600 & IC DX-120 (Ion chromatographs)
- Indoor greenhouse research facility for projects and mid-scale pilot studies.
- Level 2 Biological Containment Hood
- NSF Certified lab
- On-site college wastewater source that can be modified to suit project needs.
- PeCOD (automated COD analyzer)
- PF-8000 Respirometer
- Six modifiable research test cells that allow for treatment and testing of completely separate wastewater sources.
- SmartChem 200 Discrete Wet Chemistry Analyzer (Automated Colorimeter PC Titrate/PC BOD (BOD Autosampler/ Titrator))
- State-of-the-art analytical laboratory (ISO 17025 certification pending).
- TOC CPH-V (total organic carbon analyzer)
- Trace 1300 MS 110V with FID detector and SSL injector module (Gas Chromatography Mass Spectroscopy (GC/MS))
- Ultimate 3000 series (Ultra-High Performance Liquid Chromatography (HPLC))
- Wet chemistry/sample preparation area.



POINT OF CONTACT:

Jenn Paul

Manager, Projects & Partnerships

Phone: (705) 324-9144 x. 3068

Email: jenn.paul@flemingcollege.ca

<http://www.cawt.ca>



nc Canadian
Food & Wine
Institute
Innovation Centre



SERVICES OFFERED IN:

English



ADDRESS:

135 Taylor Road, S.S. #4
Niagara-on-the-Lake, ON L0S 1J0



WEBSITE:

[ncinnovation.ca/specializations/
canadian-food-wine-institute-
innovation-centre](http://ncinnovation.ca/specializations/canadian-food-wine-institute-innovation-centre)



POINT OF CONTACT:

Kristine Canniff
Research Project Manager
Phone: (905) 641-2252 x 4198
Email: kcanniff@niagaracollege.ca

The Canadian Food & Wine Institute (CFWI) Innovation Centre offers recipe and new product development; food and beverage safety and regulatory assistance; laboratory services; sensory analysis and consumer testing; and nutritional labelling services. Our resources include a microbiology lab; chemistry lab; food quality lab; a shelf-life lab; brewery; winery; and commercial kitchens.

AREAS OF INNOVATION EXPERTISE

- Recipe and New Product Development
- Food and Beverage Safety and Regulatory Assistance
- Sensory Analysis and Consumer Testing
- Laboratory Services (microbiology, chemistry, food quality and shelf-life testing)
- Nutritional Labelling Services

Affiliated with Niagara College



TECHNICAL AND BUSINESS SERVICES

- Assistance with building products approvals and commercialization
- Business development & market research services
- Business Mentorship referrals
- Commercialization referrals
- Competitive assessments
- Competitive market analysis
- Concept ideation & design review
- Consumer focus groups
- Digital media & web solutions
- Facilitation service (introduction)
- Field trials/simulation
- Food and beverage safety and regulatory assistance
- Ingredient selection and recommendations
- Laboratory services (microbiology, chemistry, food quality and shelf-life testing)
- Literature reviews
- Nutritional labelling services
- Problem solving
- Project management
- Proof of concept
- Recipe and new product development
- Regulatory guidance
- Retail product label & packaging review
- Sample analysis & testing
- Scientific and technological monitoring
- Scientific report writing
- Sensory analysis and consumer testing
- Technology evaluation / validation
- Testing Services



APPLIED RESEARCH AND DEVELOPMENT

- Coaching
- Concept validation
- Design of Experiment
- Human Factors Studies
- Laboratory/pilot scale prototyping
- Product design & development
- Product re-design & improvement
- Regulatory guidance
- Report preparation on R&D results
- Sensory research facilities



TRAINING

- Connections to co-op placement opportunities
- Corporate on-site & in-house training
- Curriculum development
- Design, development, and delivery of customized training

- Interactive workshop Sessions
- Needs assessment and gap analysis
- Qualitative & quantitative research
- Skills assessment/Competency evaluation
- Training planning
- Train the trainer



TECHNOLOGY DIFFUSION

- Evening speaker series
- Field site product demonstration
- Industry-specific events & symposia
- Networking events
- Open houses - testing facility & personnel
- Participation at trade shows & other venues with or on behalf of partners
- Presentation of results at conferences
- Publishing in Peer Reviewed Literature
- Seminars and Workshops



INVENTORY OF SPECIALIZED EQUIPMENT

- Chemistry Lab:
 - U-HPLC; UV-VIS Spectrophotometer; Gas Chromatograph; Automated Titrator; Distillation equipment
- Food Quality Lab:
 - FTIR Wine Analyzer; Beer Analyzer; DO Meter; Non-destructive CO2 Laser Detector; Density Meter; Texture Analyzer; Colorimeter; Water Activity Meter; Rheometer; Moisture Analyzer; Viscosity Meter; Refractometer
- Microbiology Lab:
 - Biohazard Level 2 Certification; Biosafety Cabinet; CO2-Incubator; Cryo-centrifuge; Spiral Plater; Colony Counter; Kinetic Microplate Reader; Real-time PCR; Electrophoresis;
- Niagara College Teaching Brewery:
 - Small-scale commercial brewery and Research Hop Yard
- Niagara College Teaching Winery:
 - Small-scale commercial winery; 40 Acre vineyard for production and research
- Niagara College Culinary Labs:
 - Full-scale commercial kitchen
- Shelf-life Lab:
 - Modified Atmosphere Packaging Unit; Bulk Tray Dryer; Walk-in Refrigerator/ Freezer; Freeze-drying Unit; Humidity Chambers; Thermal Validation Equipment



FIRST



FOOD INNOVATION
& RESEARCH STUDIO



SERVICES OFFERED IN:
English and French



ADDRESS:
215 King St East, 4th
Toronto, ON M5A1J9



WEBSITE:
<http://www.gbcfirst.ca>



POINT OF CONTACT:
Michelle Kienitz
Manager, Industry Liaison
& Business Development
Phone: (416) 415-5000 x. 5575
Michelle.kienitz@georgebrown.ca

FIRST helps food and beverage businesses in Ontario grow profitably through product innovation. FIRST accelerates new food and beverage ideas "from concept to commercialization", by offering industry access to strategic and technical resources, state of the art culinary research facilities, and high-value networking opportunities.

AREAS OF INNOVATION EXPERTISE

- Concept to Commercialization
- Market analysis & business plan development
- Product Development
- Regulatory & labelling
- Prototype Validation and Optimization
- Culinary and Technical Training
- Process Optimization and Quality Systems Design

Affiliated with George Brown College



TECHNICAL AND BUSINESS SERVICES

- Assistance with building products approvals and commercialization
- Business development & market research services
- Business Mentorship referrals
- Commercialization referrals
- Competitive assessments
- Competitive assessments
- Competitive market analysis
- Concept ideation & design review
- Consumer focus groups
- Design Services
- Digital Media & Web Solutions
- Early-Stage Business Development
- Ingredient selection and recommendations
- Ingredient selection and recommendations
- Literature reviews
- Market analysis
- Marketing Advisory Services referrals
- Problem solving
- Product styling & photography
- Product testing
- Project management
- Proof of concept
- Regulatory guidance
- Retail product label & packaging review
- Sample analysis & testing
- Technology evaluation / validation
- Testing Services



APPLIED RESEARCH AND DEVELOPMENT

- Concept validation
- Laboratory/pilot scale prototyping
- Pre-clinical development (chemistry & analytical biochemistry, metabolomics, pharmaceutical science, cell biology & microbiology)
- Product Design & Development
- Product Re-design & Improvement
- Provincial and federal grant proposal development
- Regulatory guidance
- Report preparation on R&D results
- Sensory research facilities
- Sensory research facilities



TRAINING

- Connections to co-op placement opportunities
- Corporate on-site & in-house training
- Curriculum development

- Design, development, and delivery of customized training
- Interactive Workshop Sessions
- Needs assessment and gap analysis
- Qualitative & quantitative research
- Qualitative & quantitative research
- Training planning
- Train the trainer



TECHNOLOGY DIFFUSION

- Evening speaker series
- Field site product demonstration
- Industry-specific events & symposia
- Networking events
- Participation at trade shows & other venues with or on behalf of partners
- Presentation of results at conferences
- Rental of space & equipment
- Seminars and Workshops

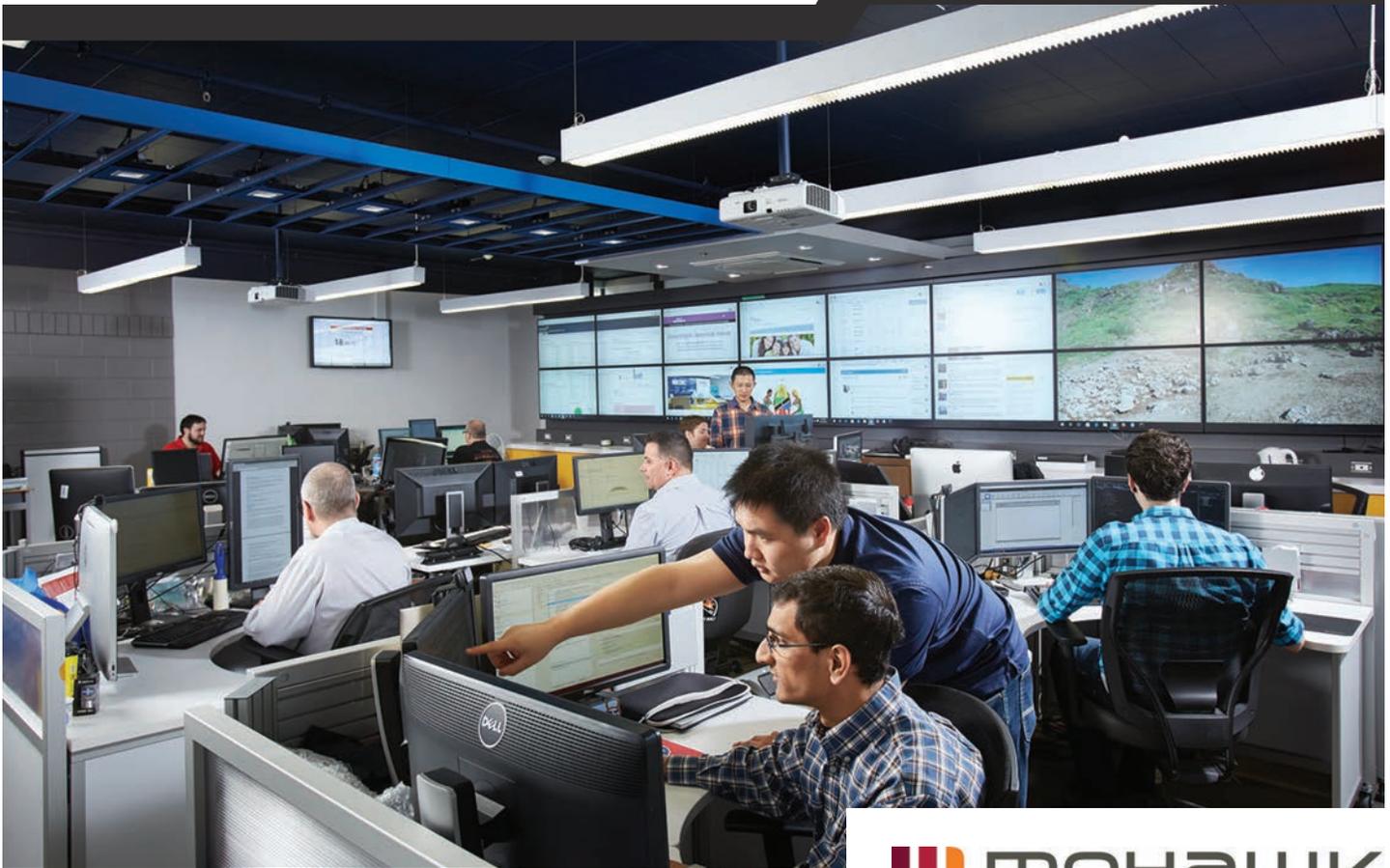


INVENTORY OF SPECIALIZED EQUIPMENT

- 1 metal detector
- 6 burner foodservice stove / oven
- A 4000 square foot facility with a large kitchen that can accommodate up to three clients simultaneously with: a private kitchen for proprietary research, a state of the art sensory testing area, and a prototyping area.
- Accelerated shelf life oven with Ro-tap sieve shaker
- Beverage carbonators
- Bostwick consistometers
- Colourimeter
- Compusense Cloud sensory evaluation software
- Dehydrator
- Digital buret
- ESHA Genesis nutritional database software
- Food emulsifier/ Robot Coupe mixer
- Food portioning scales
- Hobart mixer
- Mintel / GNPD database
- Moisture meter
- Packaging sealer
- Pacojet
- Precision scales (analytical, lab, factory sizes)
- Refractometers
- Table top Convection oven
- Vacuum sealer
- Viscometer
- Water activity meter

MEDIC TECHNOLOGY ACCESS CENTRE FOR DIGITAL HEALTH

Proud member of
Tech-Access Canada



MOHAWK
COLLEGE



SERVICES OFFERED IN:

English



ADDRESS:

Room E103 – Medic Lab
135 Fennell Ave W, Hamilton, ON
L9C 1E9



WEBSITE:

<http://mohawkmedic.com>



POINT OF CONTACT:

Paul Brown
General Manager, MEDIC
(905) 575-1212 x. 4075
paul.brown9@mohawkcollege.ca

The Centre helps to bridge the gap between the needs of the healthcare system and innovative small and medium enterprises (SMEs) that can address these needs. The Centre assists SMEs to overcome the technical, regulatory and relationship barriers to market entry that often impede product and service development. The Centre works with SMEs and public and private sector organizations on developing innovations in health IT; digital health; mobile health; consumer and patient solutions; regional health authority solutions; personal health records; mobile applications; interoperability and more.

AREAS OF INNOVATION EXPERTISE

- Consumer and Patient Solutions
- Digital Health
- Regional/Jurisdictional Health Authority Solutions
- Mobile health
- Personal Health Records
- Privacy and Security

Affiliated with Mohawk College

V1.5 1701

TECHNICAL AND BUSINESS SERVICES

- Concept ideation & design review
- Design Services
- Field trials/Simulation
- Problem solving
- Project management
- Proof of concept
- Technology & workflow consultation
- Technology development
- Technology evaluation / validation
- Testing Services

APPLIED RESEARCH AND DEVELOPMENT

- Concept validation
- Cost Avoidance
- Process Optimization
- Product Design & Development
- Product Re-design & Improvement
- Technology Validation and Transfer

TRAINING

- Connections to co-op placement opportunities
- Corporate on-site & in-house training
- Design, development, and delivery of customized training
- IHE Connectathon Preparation
- Interactive Workshop Sessions
- Needs assessment and gap analysis

TECHNOLOGY DIFFUSION

- Industry-specific events & symposia
- Networking events
- Participation at trade shows & other venues with or on behalf of partners
- Presentation of results at conferences
- Publishing in Peer Reviewed Literature
- Seminars and Workshops

INVENTORY OF SPECIALIZED EQUIPMENT

- Consumer and commercial grade medical devices
- Mobile computing devices
- Online, sandboxed versions of various eHealth ecosystems
- Open IHE sandbox infrastructure (Cross Enterprise Document Exchange (XDS), Patient Identity Cross Referencing (PIX), Patient Demographic Query (PDQ), Auditing (ATNA), OpenHIE)
- Simulators suitable for large scale testing,



POINT OF CONTACT:

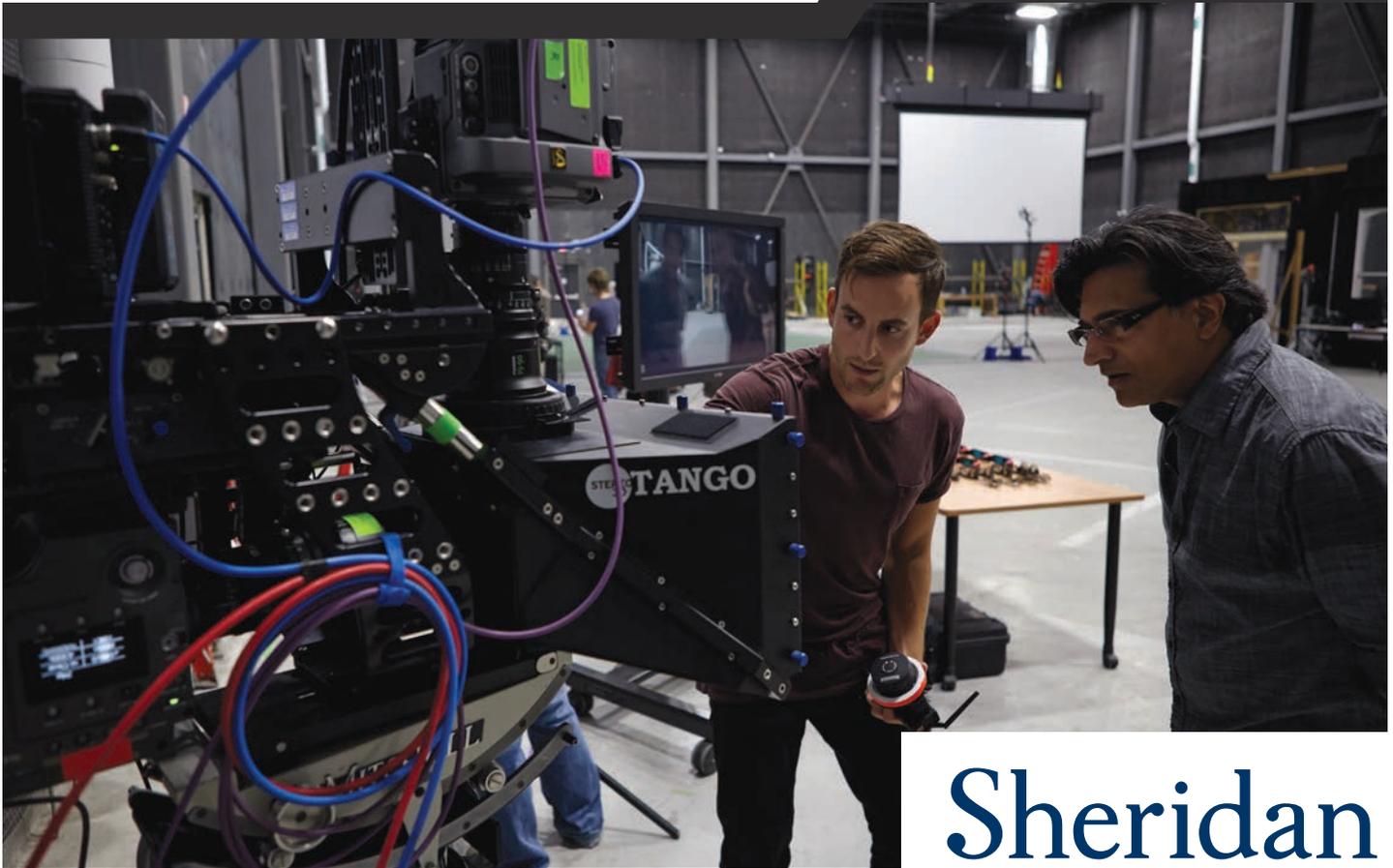
Paul Brown

General Manager, MEDIC

Phone: (905) 575-1212 x. 4075

Email: paul.brown9@mohawkcollege.ca

<http://mohawkmedic.com>



Sheridan

Screen Industries Research
and Training Centre



SERVICES OFFERED IN:
English



ADDRESS:
SIRT, Pinewood Toronto Studios
225 Commissioners St.
Suite 200b /Stage 10
Toronto, ON M4M 0A1



WEBSITE:
<http://www.sirtcentre.com>



POINT OF CONTACT:
David Dexter
Operations and Business
Development Lead
(905) 815-4170 x. 8407
david.dexter@sheridancollege.ca

SIRT established at Pinewood Toronto Studios, supports technology and content production innovation within Ontario's screen industries including film, television, gaming, interactive media and virtual reality. With partnerships and support from Ontario's screen industries, SIRT is Canada's leading innovation and technology support centre for the screen industries.

AREAS OF INNOVATION EXPERTISE

- Digital Cinema – Stereoscopic 3D, High Frame Rate (HFR), High Dynamic Range (HDR), 4k/8k program for the industry
- Virtual Production – Virtual Reality, Motion Capture, Camera Tracking
- Industry Training – fully equipped training centre and Remote and Real-time Collaboration and shared services
- Software Integration within emphasis on industry solution
- Virtual Reality/Augmented Reality Innovation Lab



TECHNICAL AND BUSINESS SERVICES

- Business development & market research services
- Commercialization referrals
- Competitive assessments
- Competitive market analysis
- Concept ideation & design review
- Consumer focus groups
- Design Services
- Digital Media & Web Solutions
- Field trials/Simulation
- Literature reviews
- Problem solving
- Product testing
- Project management
- Proof of concept
- Sample analysis & testing
- Technology & workflow consultation
- Technology development
- Technology evaluation / validation
- Testing Services
- Web-based and mobile application mapping



APPLIED RESEARCH AND DEVELOPMENT

- Concept validation
- Content Creation – Proof of Concept/Prototypes
- Process optimization
- Product Design & Development
- Product Re-design & Improvement
- Provincial and federal grant proposal development
- Technology validation and transfer



TRAINING

- Building envelope modelling training
- Connections to co-op placement opportunities
- Corporate on-site & in-house training
- Curriculum development
- Design, development, and delivery of customized training
- Interactive Workshop Sessions
- Needs assessment and gap analysis
- Qualitative & quantitative research
- Skills assessment/Competency evaluation
- Training planning
- Train the trainer



TECHNOLOGY DIFFUSION

- Customized technology demonstrations
- Evening speaker series
- Industry-specific events & symposia
- Networking events
- Open houses - Testing facility & personnel
- Participation at trade shows & other venues with or on behalf of partners
- Presentation of results at conferences
- Publishing in Peer Reviewed Literature
- Rental of space & equipment
- Seminars and Workshops



INVENTORY OF SPECIALIZED EQUIPMENT

- 2D and 3D digital cinema cameras; ARRI Alexa, Sony F65
- 4K projection/3D/HFR projection capabilities
- A full suite of motion capture, virtual camera and camera tracking technology; Vicon, OptiTrak, SolidTrack, General Lift Encodacam, Ultimatte, Sony / ARRI professional cameras
- Dedicated and secure high-speed fibre optic connectivity to offsite storage and render
- Dedicated Virtual Reality footprint with Oculus Rift, HTC Vive, Gear VR and related software applications
- DVS Clipster
- On-site workstation-based teaching facility with a range of available software
- World-Class Facility (10,000 sq. ft. sound stage at Pinewood Toronto Studios) with Global Accessibility.



POINT OF CONTACT:

David Dexter
Operations and Business
Development Lead
Phone: (905) 815-4170 x. 8407
Email: david.dexter@sheridancollege.ca

<http://www.sirtcentre.com>



SERVICES OFFERED IN:
English



ADDRESS:
100 Niagara College Boulevard
Welland, ON L3C 7L3



WEBSITE:
ncinnovation.ca/specializations/walker-advanced-manufacturing-innovation-centre



POINT OF CONTACT:
Jim Lambert, C.E.T.
Centre Manager
Phone: (905) 735-2211 x. 7177
Email: jlambert@niagaracollege.ca

Niagara College's Walker Advanced Manufacturing Innovation Centre team specializes in engineering design, 3D laser scanning technologies, lean manufacturing processes and additive manufacturing. We work with Southern Ontario businesses to bring ideas to life, from concept through to developing working prototypes, utilizing leading-edge technology, including equipment and software.

AREAS OF INNOVATION EXPERTISE

- Automation
- Reverse Engineering
- Product design and development
- Process Improvement
- Product re-design and improvement
- Canada's only material beta testing facility for Stratasys

Affiliated with Niagara College



TECHNICAL AND BUSINESS SERVICES

- Business development & market research services
- Commercialization referrals
- Competitive market analysis
- Components/parts fabrication
- Concept ideation & design review
- Design Services
- Fabrication, Prototyping and Installation Services
- FDM Materials testing
- Field trials/Simulation
- Ingredient selection and recommendations
- Non-destructive inspection (NDI)
- Performance Monitoring and Management
- Printability testing and analysis
- Problem solving
- Product testing
- Project management
- Proof of concept
- Rapid Prototyping / 3D Printing & Laser Scanning
- Technology & workflow consultation
- Technology development / evaluation / validation



APPLIED RESEARCH AND DEVELOPMENT

- Automation
- Coaching
- Composite part manufacturing
- Composite tooling design and manufacturing
- Concept validation
- Cost avoidance
- Design of Experiment
- Human Factors Studies
- Industrial scale prototyping
- Laboratory/pilot scale prototyping
- Manufacturing process design and development
- Measurement inspection and alignment
- Non-destructive inspection
- Process optimization
- Product Design & Development
- Product Re-design & Improvement
- Provincial and federal grant proposal development
- Reverse Engineering
- Technology validation and transfer



TRAINING

- Connections to co-op placement opportunities
- Corporate on-site & in-house training
- Curriculum development
- Design, development, and delivery of customized
- Interactive Workshop Sessions

- Needs assessment and gap analysis
- Qualitative & quantitative research
- Skills assessment/Competency evaluation
- Training planning



TECHNOLOGY DIFFUSION

- Customized technology demonstrations
- Evening speaker series
- Field site product demonstration
- Industry-specific events & symposia
- Networking events
- Open houses - Testing facility & personnel
- Participation at trade shows & other venues with or on behalf of partners
- Presentation of results at conferences
- Publishing in Peer Reviewed Literature
- Rental of space & equipment
- Seminars and Workshops
- Technical Service Bulletins



INVENTORY OF SPECIALIZED EQUIPMENT

- 3D Systems Geomagic Control X: 3D GD&T inspection software used to compare as-is to nominal
- 3D Systems Geomagic Design X: Conversion of scan data to intelligent CAD models
- Autodesk Inventor Fusion, Factory Design Suite, AutoCAD, Revit, CFD
- Autodesk ReCap 360: Conversion of photographs to point-clouds (photogrammetry), basic stitching of point cloud data
- BuildIT: Very versatile 3D GD&T inspection tool
- Connex 1 Objet 260
- DJI Inspire 1 Unmanned Aerial Vehicle (UAV)
- EdgeWise: Advanced feature recognition from pointcloud data for BIM applications
- Faro CAM2 Measure 10
- Faro Edge (probe), Faro Laser Line Probe (Blue LLP), Faro Tracker Vantage, Faro Focus 3DS 120
- Fortus 400mc & Fortus 900mc
- InnovMetric Polyworks: Very versatile 3D GD&T inspection tool
- Insight/Control Centre: tool path creation/ optimization, and printer management for Fortus machines
- Objet Studio (3D print optimization / management for Connex machines
- PTC Mathcad
- SimCAD Pro
- Timer Pro

WEARABLE, INTERACTIVE AND MOBILE TECHNOLOGIES ACCESS CENTRE IN HEALTH (WIMTACH)

Proud member of

Tech-Access Canada



WIMTACH

Wearable, Interactive, and Mobile Technologies Access Centre in Healthcare



SERVICES OFFERED IN:

English



ADDRESS:

941 Progress Ave Room D2-02
Toronto, ON M1G 3T8



WEBSITE:

wimtach.centennialcollege.ca



POINT OF CONTACT:

Jeziel Vidad
Innovation Program Manager
Phone: (416) 289-5128 x 8594
Email: JVidad@centennialcollege.ca

WIMTACH at Centennial provides unique proposition of a mobile, wearable, and interactive research facility and field-based usability testing framework. It brings together proven multi-disciplinary faculty experience, diversity and depth of students, state-of-the-art facilities across four Centennial campuses, international reach, robust project management, and an extensive innovation ecosystem to benefit Canada's health technologies industry.

AREAS OF INNOVATION EXPERTISE

- Digital health technology
- Mobile technology
- Interactive technology
- Wearable technology
- Electronics and mechanical technology
- Hackathons

Affiliated with Centennial College

WEARABLE, INTERACTIVE AND MOBILE TECHNOLOGIES ACCESS CENTRE IN HEALTH (WIMTACH)

Proud member of

Tech-Access Canada



TECHNICAL AND BUSINESS SERVICES

- Business development & market research services
- Competitive market analysis
- Concept ideation & design review
- Design Services
- Digital Media & Web Solutions
- Field trials/Simulation
- Project management
- Technology & workflow consultation



APPLIED RESEARCH AND DEVELOPMENT

- 3D design & rapid Prototyping
- Concept validation
- Pre-commercialization 3D Printing services
- Product Design & Development
- Product Re-design & Improvement
- Provincial and federal grant proposal development
- Regulatory Research in Health
- Reverse Engineering
- Technology validation and transfer



TRAINING

- Connections to co-op placement opportunities
- Corporate on-site & in-house training
- Interactive Workshop Sessions



TECHNOLOGY DIFFUSION

- Industry-specific events & symposia
- Networking events
- Open houses - Testing facility & personnel
- Rental of space & equipment



INVENTORY OF SPECIALIZED EQUIPMENT

- In-House Server for Testing
- Mobile Devices Library from Wavefront



POINT OF CONTACT:

Jeziel Vidad

Innovation Program Manager

Phone: (416) 289-5128 x 8594

Email: JVidad@centennialcollege.ca

wimtach.centennialcollege.ca