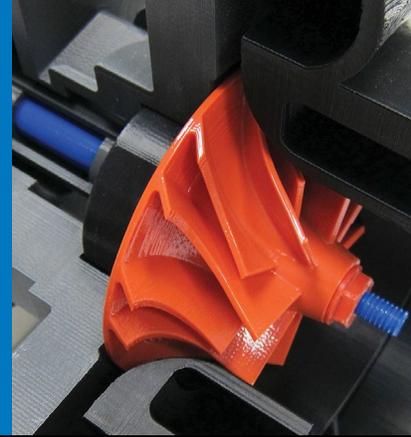


Solutions for Industry



Providing innovative solutions to business and industry through applied research and knowledge transfer, in partnership with Niagara College faculty and students.



Research
& Innovation

ncinnovation.ca



Niagara College's Research & Innovation division provides real-world solutions for business, industry and the community through applied research and knowledge transfer activities. We conduct projects that provide innovative solutions, such as producing and testing prototypes, evaluating new technologies, and developing new or improved products or processes for small- and medium-sized businesses.



With funding support from various regional, provincial and federal agencies, students and graduates are hired to work alongside faculty researchers to assist industry partners leap forward in the marketplace.

Our centres of excellence include:



Walker Advanced Manufacturing Innovation Centre



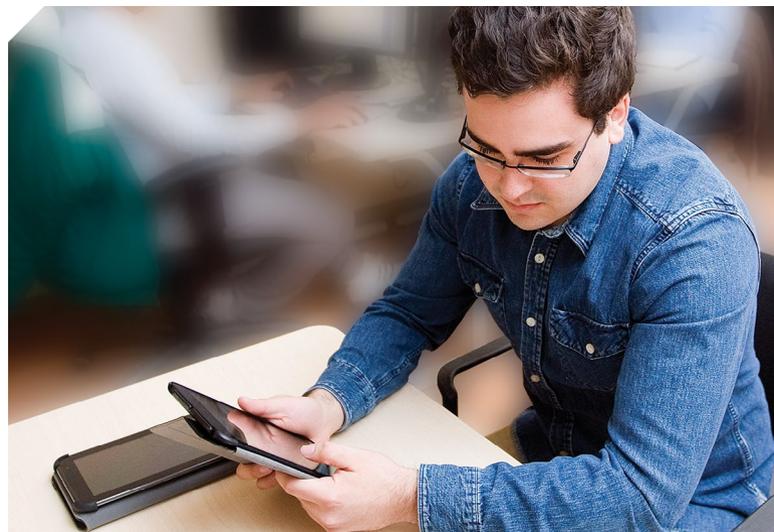
Agriculture & Environment Innovation Centre



Canadian Food & Wine Institute Innovation Centre



Business & Commercialization, Digital Media & Web Solutions



The Research & Innovation teams collaborate with SMEs in a range of specializations, as outlined in this brochure. We are ready to put together a strong research and development team determined to find the appropriate solution for you.

Start the conversation today.

Do you have an innovative idea but lack the resources to bring it to life?
MEET WITH US. WORK WITH US.

Contact our team. Together, we will determine how best to meet your needs, whether we perform a quick turnaround service, or a full innovation project. Projects can last anywhere from a few days to a few months, all depending on the scope, and our industry partner's needs. For research and development partnerships, contact us:

w ncinnovation.ca

e research@niagaracollege.ca

t 905-641-2252 ext. 4287



Walker Advanced Manufacturing Innovation Centre

Niagara College's Walker Advanced Manufacturing Innovation Centre team specializes in engineering design, 3D 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 – from quick turn-around services to full-scale projects – utilizing leading-edge technology, including equipment and software.

We specialize in...

Technical Services

Including: 3D Printing, 3D Design, 3D Measurement and Scanning

Automation

Mechanizing a process to decrease human labour and increase efficiency

Product Design & Development

Creating a new product for deployment within your business or to be sold to a customer

Reverse Engineering

Discovering the technological principles of a device, object or system through analysis of its structure and functions

Lean Manufacturing Assessment

Analyzing and improving an existing process within your operations

Product Re-Design & Improvement

Revamping an existing product to improve quality and/or adapt to changing market conditions

Resources & Capabilities

Rapid Prototype Machine

Laser Scanners (small-scale & room-size)

Vision System

Hand Measurement Tools

3D Computer-Aided Design

3D Factory Design

Physical Simulations and Modelling

Engineering Design

Electronics and Electrical

Agriculture & Environment Innovation Centre

In light of growing environmental and ecological pressures, Niagara College's Agriculture & Environment Innovation Centre team works with private and public sector partners to develop innovative solutions to address today's challenges in precision agriculture, GIS, computer programming, sustainable food production, plant growth, horticultural practices, greenhouse operations, aquaponics, environmental management and renewable energies.

We specialize in...

Precision Agriculture

Analyzing agricultural data (including RTK, topographic and yield) and using algorithms to identify and exploit stability patterns to increase yield and reduce field inputs

Environmental Analysis

Water, wastewater and/or soil analysis, with mitigation and reduction strategies

Horticulture and Greenhouse

Including hydroponics, aquaponics, growing media, integrated pest management, and lighting techniques

Sustainability Solutions

Environmental solutions to reduce risk, identify cost reductions, income opportunities and enhance corporate social responsibility

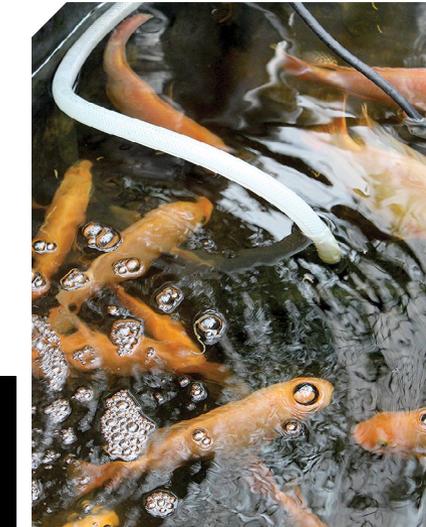


The Agriculture & Environment Innovation Centre is privileged to have on its team, Dr. Mike Duncan, NSERC Industrial Chair in Precision Agriculture and Environmental Technologies

OUR INFRASTRUCTURE INCLUDES A

20,000

SQUARE-FOOT GREENHOUSE AND ENVIRONMENTAL LABS, AN ON-CAMPUS VINEYARD AND A HOPYARD



“WORKING WITH NIAGARA COLLEGE, IT'S NICE TO BE ABLE TO TALK TO PEOPLE WHO SPEAK USING THE SAME VOCABULARY, IN TERMS OF THE ENGINEERING ASPECTS, ESPECIALLY SINCE THERE ISN'T ANYONE ELSE ON OUR STAFF WHO IS ABLE TO DO THAT.”

Jim Roy, plant manager, Kwik Mix

“WITHOUT ACCESS TO NIAGARA COLLEGE’S FACULTY, STUDENTS, EQUIPMENT, AND NETWORK OF CO-PACKERS, MADD VIRGIN CRAFT BREWED LAGER WOULD NOT HAVE BEEN POSSIBLE, LET ALONE BECOME ONE OF OUR BEST SELLERS IN THE U.S. MARKET.”

~Brian Bolshin,
President of MADD Virgin Drinks

Canadian Food & Wine Institute Innovation Centre

The Canadian Food & Wine Institute Innovation Centre team offers a full suite of services to support industry innovation and commercialization of new products and processes. From new recipe development to shelf-life testing and nutritional labelling, the CFWI Innovation Centre pairs industry partners with faculty, recent graduates and students with the right expertise and equipment to meet your needs.

We specialize in...

Recipe & New Product Development

Developing new products, improving existing products, entering new product categories or increasing product quality and ease of operations

Nutritional Labelling & Analysis

Using the science labs to analyze the content of food and beverages, or developing proper nutrition labels and packaging according to acceptable food regulatory standards

Value-added Product Development

Raw food producers can transform raw ingredients into value-added goods

Food & Beverage Regulatory Assistance

Guiding you through the appropriate and applicable food safety standards

Sensory & Consumer Testing

Engaging consumers and trained panellists to guide the recipe development process

Resources & Capabilities

Commercial Brewery and Hopyard

Commercial Winery and Vineyard

Commercial Kitchens

Microbiology Lab

Chemistry Lab

Sensory and Consumer Testing Labs

Shelf-Life and Packaging Lab

Commercialization Solutions



Business & Commercialization Solutions

The Business & Commercialization team offers a full suite of solutions to assist industry partners. **We specialize in ...**

Initial Market Research

Commercialization Strategies

Operations Management

PR Planning

Social Media Planning

International Market Research

Export Strategies

Human Resources Training Manuals,

Health & Safety Plans,

Promotional Materials

Digital Media & Web Solutions

The Digital Media & Web Solutions team works with industry partners to develop and implement various technology applications, using the most up-to-date programming languages, platforms and software packages. **We specialize in ...**

Web Applications

Mobile Applications

Software Development





To learn more about partnership possibilities contact us:

t 905-641-2252 Ext. 4287
e research@niagaracollege.ca
w ncinnovation.ca

