

Integrated Agriculture Technology Centre (IATC)

Lethbridge College

📍 Lethbridge (Southern Alberta Region), AB



ABOUT IATC

KEY MARKETS:

- Agri-businesses
- Ag-tech companies
- Primary producers
- Food processors
- Services providers

INNOVATION NEEDS WE ADDRESS:

At the Integrated Agriculture Technology Centre (IATC), we're meeting the demand for quality applied research into aquaculture and aquaponic practices specifically adapted to northern geographical locations. We have over 20,000 sq ft of controlled-environment agriculture facilities, including our internationally-known Aquaculture Centre of Excellence and our research greenhouse, the Centre for Sustainable Food Production. Our unique facilities offer pre-commercial validation opportunities for commercial application and allow for exploration of a variety integrated food production techniques.

The IATC connects industry with the technologies and research expertise at Lethbridge College. We serve small- and medium-sized enterprises by providing applied research and technical services to solve challenges, as well as specialized training on the latest equipment and emerging technologies.

Our greenhouse operations, biosecure isolation facilities, water recirculation technologies, and water quality testing provide a solid foundation for a variety of aquatic- and aquaponic-based research, particularly in:

- aquaponics
- recirculation aquaculture systems (RAS)
- RAS ecosystem health
- RAS water quality
- greenhouse techniques and technologies water conservation



Aquaculture research scientist Nick Savidov poses in the campus greenhouse for Wider Horizons.

Credit: Rob Olson Photography



- waste management
- aerobic bioreactor technology
- novel micro filtration systems (biochar)

To submit an inquiry to work with our team, visit: iatc.ca/work-with-us/client-intake-form

To sign up for our aquaponics micro-credentials, visit: learn.lc/aquaponics-micro

Contact IATC

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 lethbridgecollege.ca/departments/centre-for-applied-research-and-innovation

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 **Services offered in:** English

 **Request Interactive Visit:** <http://interactivevisits.ca>

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RESEARCH AND INNOVATION EXPERTISE

EXPERTISE

1. Aerobic Bioreactor Technology
2. Aerobic Digestate-based Nutrient Solutions
3. Agricultural Engineering
4. Aquaculture
5. Aquaponics Design
6. Crop Production
7. Dewatering Techniques
8. Drip Irrigation
9. Effluent and Feedstock Management
10. Fertigation
11. Food Safety
12. Greenhouse Control Systems
13. Greenhouse Management
14. Innovate Substrates for Plant Growth
15. Integrated Food Production Systems
16. Organoleptics
17. Pathogen and Pest Management
18. Pivot Irrigation
19. Plant Stress Management
20. Post-harvest Management
21. Precision Irrigation
22. Technology
23. Vertical Aquaponics
24. Waste Treatment
25. Water and Nutrient Monitoring
26. Water Use Efficiency
27. Wet Processing

Previous Research Projects

- <https://lethbridgecollege.ca/departments/centre-for-applied-research-and-innovation/research-projects>

Fields of projects

- Small and Large-scale Crop Producers
- Greenhouse Growers
- Aquaponics Operations
- Aquaculture Operations
- Food Processors
- Ag-tech Companies

