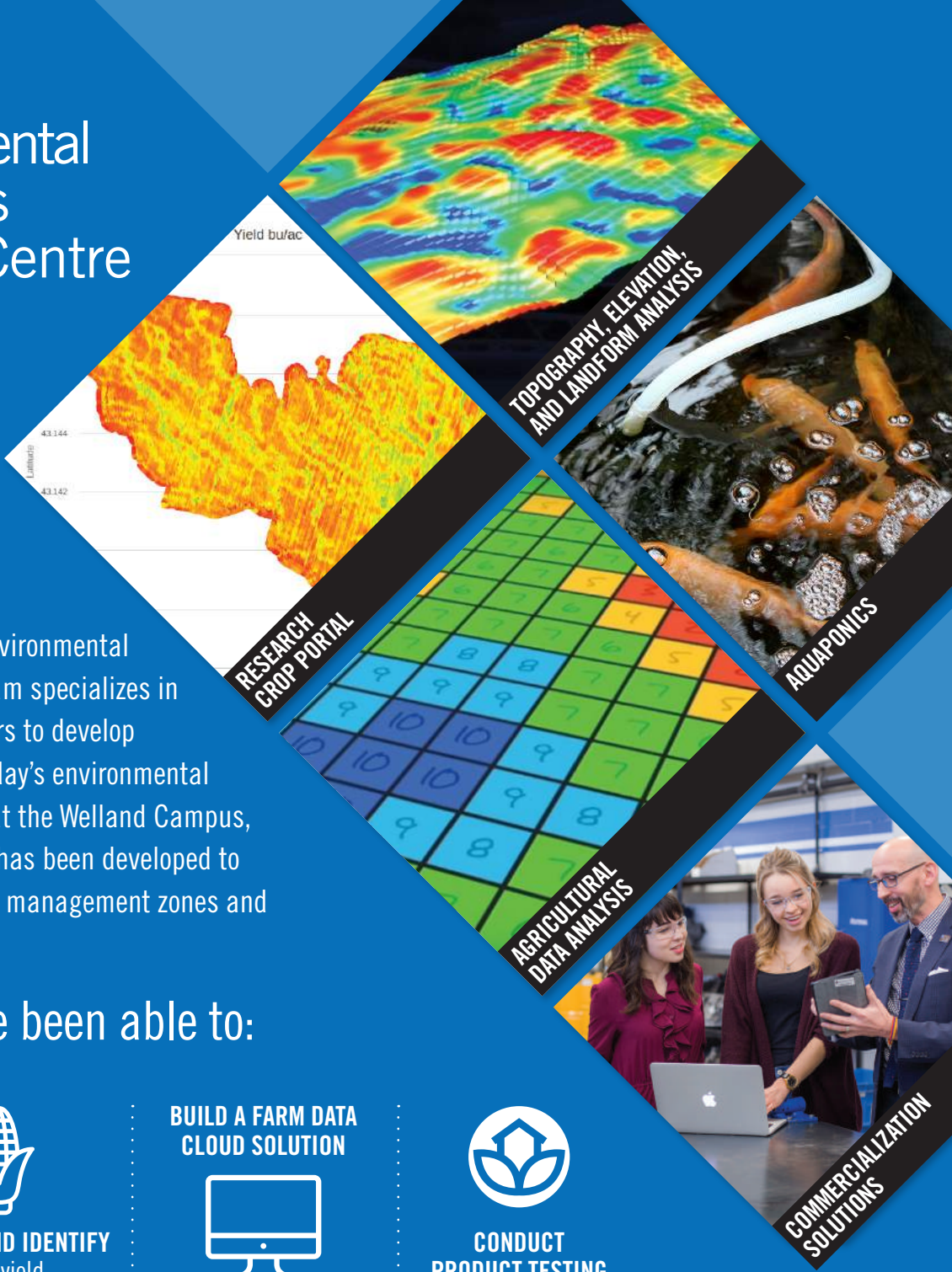


Solutions for Industry

Niagara College's Agriculture & Environmental Technologies Innovation Centre team specializes in working with private sector partners to develop innovative solutions to address today's environmental and ecological pressures. Hosted at the Welland Campus, a farm data Research Crop Portal has been developed to support farmers exploring or using management zones and practising variable rate farming.

For example, we have been able to:



RESEARCH CROP PORTAL

TOPOGRAPHY, ELEVATION, AND LANDFORM ANALYSIS

AQUAPONICS

AGRICULTURAL DATA ANALYSIS

COMMERCIALIZATION SOLUTIONS

DEVELOP AGRICULTURAL ROBOT PROTOTYPES



and data platforms to gather weather data



ANALYZE AND IDENTIFY crop yield stability patterns

BUILD A FARM DATA CLOUD SOLUTION



for growers to analyze and manage data



CONDUCT PRODUCT TESTING AND VALIDATION for greenhouses and green roofs

nc Agriculture
& Environmental
Technologies
Innovation Centre

In light of growing environmental and ecological pressures, Niagara College's Agriculture & Environmental Technologies Innovation Centre team works with businesses, public sector partners, and collaborators to develop innovative solutions to address today's challenges in agriculture, farm management, and food production with precision agriculture, computer programming, data analysis, mapping, sensor installation, robotics prototyping, sustainable food production, innovative horticultural and greenhouse practices, and environmental management.

We specialize in

PRECISION AGRICULTURE

Creating software for agricultural needs, analyzing agricultural data, and prototyping sensors and robotics to improve profitability by increasing yield and reducing field inputs

HORTICULTURE AND GREENHOUSE

Sustainable food, aquaponics, hydroponics, plant containers & media, and lighting

ENVIRONMENTAL ANALYSIS

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

SUSTAINABILITY SOLUTIONS

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



OUR INFRASTRUCTURE
INCLUDES A

20,000

SQUARE-FOOT GREENHOUSE,
AN AQUAPONICS SYSTEM, SEVERAL
ENVIRONMENTAL LABS, A 40-ACRE
ON-CAMPUS VINEYARD
AND A HOP YARD

"Working together in completing applied research projects with Niagara College provides industry with a new knowledge base and tools to develop viable products as well as other benefits along a whole value chain."

~Earthgen International Ltd.

