Walker Advanced Manufacturing Innovation Centre

Solutions for Industry

Access Technical Services at the Walker Advanced Manufacturing Innovation Centre, your company's R&D partner, located at the Welland Campus of Niagara College. We provide a key competitive advantage to industry, offering access to cutting-edge equipment – and related services – for the development of products and manufacturing processes.

For example, we have been able to:

BECOME CANADA'S FIRST & ONLY

3D PRINTING BETA TEST CENTRE for new products and materials

USE LEAN PRINCIPLES to increase **PRODUCTION SPACE** by

260%

for a local cleaning supply company

REVERSE-ENGINEER dozens of components and provide intelligent parametric **CAD MODELS** from our scanning technologies

Employ 3D **SPATIAL CAPTURE TECHNOLOGY** to quickly calibrate fixtures for an aerospace industry **DIGITAL MANUFACTURING WORKSPACE**

Niagara College Canada

APPLIED DREAMS.

Do you have an innovative idea but lack the resources to bring it to life?

MEET WITH US. WORK WITH US.

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w ncinnovation.ca

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 Ontario businesses to bring ideas to life, from concept through to developing working prototypes, utilizing leading-edge technology, including equipment and software.

We specialize in

TECHNICAL SERVICES
Including: 3D Printing, 3D Design, 3D Measurement and Scanning, Finite Element Analysis (FEA), Computation Fluid Dynamics (CFD)

AUTOMATION
Mechanizing a process to decrease human labour and increase efficiency

PRODUCT DESIGN AND DEVELOPMENT
Creating a new product for deployment within your business or to be sold to a customer

REVERSE ENGINEERING
Extract knowledge or design intent of your legacy parts by scanning its components in fine detail to produce 3D CAD data

LEAN MANUFACTURING ASSESSMENT
Analyzing and improving an existing process within your operations

PRODUCT RE-DESIGN AND IMPROVEMENT
Revamping an existing product to improve quality and/or adapt to changing market conditions

Resources & Capabilities

- ***Stratasys 3D Printing Beta Testing Facility***
- ***Laser Scanners (small-scale and factory-size)***
- ***Vision Systems***
- ***Rapid Prototype Machines (FDM & Polyjet)***
- ***3D Computer-Aided Design***
- ***3D Factory Design***
- ***Physical Simulations and Modelling***
- ***Engineering Design***
- ***Electronics and Electrical***

"Niagara College brings youth, enthusiasm and knowledge to a tough playing field where every dollar is critical to the survival of many small businesses."

~Bob Benner, Hamill Machine Company Inc.

Niagara Region · NSERC CRSNG · NRC CNRC Canada — NRC Industrial Research Assistance Program / Programme d'aide à la recherche industrielle du CNRC · Ontario Centres of Excellence · Ontario

Niagara College Canada
APPLIED DREAMS.

Start the conversation today

Together, we will determine how best to meet your needs, whether we perform a quick turnaround service, or a full innovation project. For R&D partnership opportunities, contact us:

ncinnovation.ca