WHAT IS SONAMI?

Southern Ontario Network for Advanced Manufacturing Innovation

WHO

Niagara College, in association with its partners at Conestoga College's Centre for Smart Manufacturing (CSM); Fanshawe College's Canadian Centre for Product Validation (CCPV); Lambton College's Bluewater Technical Access Centre (BTAC); McMaster University's McMaster Manufacturing Research Institute (MMRI); Mohawk College's Additive Manufacturing Innovation Centre (AMIC); Sheridan College's Centre for Advanced Manufacturing and Design Technologies (CAMDT).

WHAT

The network was created in 2015, thanks to support from the federal government, to conduct applied research projects in partnership with industry. From productivity improvements, to prototype development, to production planning and production automation, SONAMI partners have capabilities in additive manufacturing; flexible manufacturing; high productivity manufacturing; and the Industrial Internet. See over for details.

WHEN

Projects usually take four to eight months to complete, depending on the complexity. All projects must be completed by December 2023.

WHY

To grow the quality and quantity of applied research projects and to support Southern Ontario's advanced manufacturing cluster with state-of-the-market facilities and equipment.

HOW THE FUNDING WORKS

Leverage federal funding in a 1:1.2 match, where the industry partner contributes some cash and in-kind contributions to the project.

WHERE

To discuss project ideas, contact your local institution. See over for details. For more information on the network, contact Kithio Mwanzia by phone 905-735-2211 ext. 7192 or email at kmwanzia@niagaracollege.ca, or Sarah Dimick by phone 905-735-2211 ext. 7066 or email at sdimick@niagaracollege.ca.

SPECIALIZATIONS

Automation

Adapting production to market demand through the use of robotics, sensor integration, artificial intelligence and machine learning.

Information & Communication Technology and Cyber Security

Evolving manufacturing processes for Industry 4.0 with the application of Industrial Internet of Things (IIOT), data analytics, cyber security, cloud computing and artificial intelligence.

Process Optimization

Improving manufacturing productivity through tooling selection and development and lean manufacturing processes to realize new and improved products and robust full-scale manufacturing processes.

Additive Manufacturing

Discover the advantages and limitations of 3D metal and plastics printing from design to material development to prototyping to manufacturing.

Product Testing & Validation

Prototypes and new product designs may require multimodal testing and validation to determine areas of improvement and ensure product quality.

Simulation & Modelling

Developing new products and processes using computer aided design and simulation.

Workforce Development

Our network can provide training and development for employees, engineers and technicians, etc.

Eligible projects should be focused on new productivity improvements, or new product development with an eye to commercialization. The product may be at any stage of development when the project begins. The length of the project will vary dependent upon the level and type of assistance requested.

CONTACT YOUR LOCAL PARTNER INSTITUTION FOR MORE DETAILS:

Centennial College
aries@centennialcollege.ca
416-289-4128
centennialcollege.ca/ARIES

Conestoga College
appliedresearch@conestogac.on.ca
519-748-5220 x 7105
conestogac.on.ca/research

Fanshawe College
research@fanshawec.ca
519-452-4430 x 4703
fanshawec.ca/research

Lambton College
rick.williston@lambtoncollege.ca
226-778-0045
lambtoncollege.ca/research

McMaster University
mmri-admin@mcmaster.ca
905-525-9140 x 24285
mmri.mcmaster.ca

Mohawk College
ideaworks@mohawkcollege.ca
905-575-1212 x 4083
mohawkcollege.ca/ideaworks

Niagara College
ebest@niagaracollege.ca
905-735-2211 x 4287
ncinnovation.ca/sonami

Sheridan College
sonami@sheridancollege.ca
905-459-7533 x 5506
camdt.sheridancollege.ca