

**JOB POSTING: WAMIC23\_01**

**JOB TITLE:** Mechanical Engineering Research Assistant (Sr. Co-op)  
**START DATE:** April – December - 8 months  
**DEPARTMENT:** Research and Innovation Division  
**SALARY:** \$16.74 per hour



Located at the Welland Campus of Niagara College, the Walker Advanced Manufacturing Innovation Centre (WAMIC) provides regional manufacturers access to facilities, equipment, technical expertise and supports them in product development, technology adoption, and commercialization.

**MAIN FUNCTIONS:** The Mechanical Engineering Research Assistant will have a comprehensive skillset to work with the WAMIC team on a variety of applied research projects. Hours completed during this work term can be used toward your co-operative placement hours. The Research Assistant will report to the Research Program Manager. The successful candidate will work in Advanced Manufacturing areas such as Product Design & Development, Product Testing, Reality/Spatial Capture, Reverse Engineering, and Additive Manufacturing.

**Duties:**

- Provide support for mechanical engineering projects
- Collaborate with project team members to develop solutions for companies
- Produce CAD models and drawings and provide calculations for parts and components
- Assist in scanning and reverse engineering activities
- Assist in 3D printing, machining, and/or metrology activities as required
- Accurately document, edit, and track records of project progress
- Develop comprehensive engineering reports to be submitted to industry partners
- Assist with the coordination of meetings and special events
- Represent the Walker Advanced Manufacturing Innovation Centre at college activities and external events
- Comply with all safety applicable requirements while working at the lab, using an equipment or a product

**Employment Requirements:**

- Current student of the Mechanical Engineering program at Niagara College with a strong academic standing
- Creativity in developing new ideas for product development
- Strong working knowledge of Autodesk Inventor
- Knowledge of Rapid Prototyping and Additive Manufacturing
- Experience with tool path programming would be an asset
- Demonstrates high level of organization and time management skills
- Demonstrates great attention to detail, quality, and accuracy
- Capable of working independently and unsupervised
- Ability to be a collaborative member of a team
- Demonstrates an uncompromised commitment to confidentiality & safety
- Ability to take initiative to complete tasks, ask for help, and seek solutions
- Ability to co-ordinate multiple tasks
- Ability to communicate with non-technical and highly technical individuals
- Comfortable making presentations to small/large groups

**Working Conditions:**

- Co-operative Placement starting April – December 2023
- Work schedule is Monday to Friday from 8:30 am to 4:30 pm
- Reading text and documents
- Indoors, sitting and regular computer use
- On-campus position (Welland campus)

To apply: students must log in to the NC Careers Services portal (found in the MyNC portal). Please include your resume, cover letter, class schedule and transcript in your application package by **Wednesday, March 22, 2023 at 12:00 pm**.