

**JOB POSTING: WAMIC21\_01**

**JOB TITLE:** Mechanical Engineering Research Assistant (Sr. Co-op)  
**START DATE:** September – December - 4 months  
**DEPARTMENT:** Research and Innovation Division  
**SALARY:** \$14.42 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. The successful candidate will work in Advanced Manufacturing areas such as Product Design & Development, Product Testing, Reality/Spatial Capture, Reverse Engineering, and Additive Manufacturing.

**MAIN FUNCTIONS:** The Mechanical Engineering Research Assistant will have a comprehensive skillset to work with the Walker Advanced Manufacturing Innovation Centre team on a variety of projects. Hours completed during this work term can be used toward your co-operative placement hours.

**Duties:**

- Develop solutions for specific industry-partnered applied research/technical service activities
- Provide support for mechanical engineering projects
- Foster effective team work between students, researchers and industry
- Effectively use CAD, simulation, and point-cloud acquisition/manipulation software packages
- Accurately document, edit, and track records of project progress
- Develop comprehensive engineering reports to be submitted to industry partners
- Adhere to all required work deadlines and project timelines
- Assist with the coordination of meetings and special events
- Represent the Walker Advanced Manufacturing Innovation Centre at college activities and external events

**Employment Requirements:**

- Mechanical Engineering program with a strong academic standing
- Creativity in developing new ideas for product development
- Strong working knowledge of Autodesk Inventor 2014 or higher
- Uncompromised commitment to confidentiality
- Knowledge of Rapid Prototyping and Additive Manufacturing
- High level of organization and time management skills
- Great attention to detail, quality, and accuracy with ability to co-ordinate multiple tasks
- Ability to take initiative to complete tasks, ask for help and seek solutions
- Strong communication (written/oral) skills with both technical and non-technical audience
- Comfortable making presentations to small/large groups
- Experience with tool path programming would be an asset

**Working Conditions:**

- Co-operative Placement starting September – December 2021
- Work schedule is Monday to Friday from 8:30 am to 4:30 pm
- Reading text and documents
- Indoors, sitting and constant computer use
- Prepared to work remotely and/or at the Welland campus
- Access to the internet, a computer and a web camera required

Please email your resume, cover letter and transcript to [researchjobs@niagaracollege.ca](mailto:researchjobs@niagaracollege.ca) by **Wednesday, August 18, 2021 at 12:00 pm**. Please reference posting Mechanical Research Assistant SR Co-op in the subject line.