JOB POSTING: WAMIC21_01

JOB TITLE: Mechanical Engineering Research Assistant (Junior Co-op)
DATE: November 2021
DEPARTMENT: Research and Innovation Division
SALARY: $14.56 per hour

Located at the Welland Campus of Niagara College, the Walker Advanced Manufacturing Innovation Centre (WAMIC) provides small regional manufacturers access to needed facilities, equipment, technical expertise and serves to assist them in product development, technology adoption, expansion into new markets and commercialization.

The successful candidate may work on research projects or technical services in the following areas:

- Additive Manufacturing
- Product Design & Development
- Product Testing
- Reality/Spatial Capture
- Reverse Engineering
- Lean Manufacturing Assessment

MAIN FUNCTIONS: The Mechanical Engineering Research Assistant will have a comprehensive skill set to work with the Walker Advanced Manufacturing Innovation Centre team, Faculty Leads and Industry Partners on a variety of time-sensitive projects. Hours completed during this work term may be used toward your co-operative placement hours.

DUTIES:

- Develop solutions for specific industry-partnered applied research/technical service activities
- Provides logistics support for mechanical engineering projects
- Foster effective team work between students, faculty members and industry
- Effective use of 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
- Planning, implementing, and maintaining project timelines, as well as adhering to all required deadlines
- Assist with the coordination of meetings and special events
- Proper maintenance and adherence to all software and paper filing systems and procedures
- Represent the Walker Advanced Manufacturing Innovation Centre at college activities and external events

EMPLOYMENT REQUIREMENTS:

- Completed Mechanical Engineering courses with a strong academic standing
- Strong working knowledge of Autodesk Inventor 2014 or higher
- Knowledge of Rapid Prototyping and Additive Manufacturing
- Proficient with Microsoft Office Suite
- 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

- Ability to take initiative to complete tasks, ask for help and seek solutions
- Ability to co-ordinate multiple tasks
- Demonstrates creativity in developing new ideas for project development
- Ability to communicate with non-technical and highly technical individuals
- Strong communication (written/oral) and interpersonal skills
- Comfortable making presentations to small/large groups
- Experience with mechanical programming would be an asset

WORKING CONDITIONS:

- Co-operative Placement: 35 hours per week from January 2022 – August 2022
- Reading text and documents
- Indoors, sitting and constant computer use
- Some evenings and weekend work may be required.
- Niagara College has a COVID-19 Mandatory Vaccination for Campus Access Policy. All employees are required to provide proof that you are fully vaccinated.

To apply, please email your resume, cover letter, transcript and school schedule to researchjobs@niagaracollege.ca by Friday, November 26, 2021 at 4:00pm and reference posting WAMIC21-01. While we appreciate all applications received, only those candidates selected for an interview will be contacted.