On behalf of the Mechatronics and Robotics Engineering (MRE) program, the Faculty of Engineering and Applied Science will be hiring one student this summer for the setup and development of new undergraduate laboratories in the area of thermodynamics, heat transfer and fluid mechanics.

The successful candidate will assist faculty members and staff in developing new laboratory experiments and projects for two new MRE courses: MREN 241 (Fluid Mechanics and Fluid Power) and MREN 230 (Thermodynamics and Heat Transfer). Ideally, the work will address the needs of both courses and the work will be prioritized accordingly. This will include designing, building, and testing new lab setups to teach core concepts, testing software and instrumentation, and writing related materials (i.e., lab manuals, assignment outlines, etc.). Figure 1 and Figure 2 are current concepts for new tabletop labs.

Successful candidate will be:
- An undergraduate student who has successfully completed 2nd year, or a full-time graduate student, in the MME or ECE program or related engineering program
- A recent graduate of an MME, ECE, or related engineering program

Successful candidate will have:
- Sound understanding of core concepts in engineering design and problem solving, including analysis and measurement of heat transfer and fluid flow systems.
- Hands-on skills in the mechanical, electrical and/or computer engineering fields,
- Strong written and oral communication skills,
- Proven ability to work independently, and
- Initiative and creativity
- Knowledge of fluid power systems would be considered an asset

If you are interested, please submit a cover letter, unofficial transcript and your resume by Monday, April 18th at 4:00 pm to m.bouchard@queensu.ca. For undergraduate students, the position will be for 16 consecutive weeks, full-time (normally May 2, 2022 to August 19, 2022) at $17/hour (plus vacation pay). For graduate students, the position will be for 16 consecutive weeks, part-time, with a maximum of 10 hrs/week.

You must be eligible to work in Canada. Please follow this link for more info on the MRE program. https://mre.engineering.queensu.ca. If you have any questions, please feel free to contact me. We appreciate all applications, but only those selected for an interview will be contacted.