

# **Research professional**

## **Concordia Center for Composites**

**<https://www.concordia.ca/research/composites.html>**

The Concordia Center for Composites is looking for a research professional to do the following:

1. Fine tuning an existing test set up for the testing of straight and curved tubes. The tubes are made of either isotropic materials such as metals, plastics and of composite materials. The test set up can perform both three point bending and four point bending on tubes.
2. Prepare samples for the above tests. Samples are either straight tubes or curved tubes. Instrumentation such as strain gages, Digital Image Correlation, Infrared images are used to determine the deformation and strain in the tube structures.
3. Operate the MTS testing instrumentation for the above tests.
4. Prepare composite samples containing fibers, matrix resins such as epoxy, and particles such as carbon nanotubes, graphene etc.
5. Testing the above samples for mechanical properties, electrical properties, physical properties, electro magnetic interference, lightning strike etc.
6. Interact with industrial partners.
7. Other aspects of lab work in Composites Manufacturing and Testing.

### **Education:**

- Master of Applied Science degree or a Ph.D degree in Mechanical Engineering
- Would be an asset to have some background in Chemical Engineering.

### **Experience:**

- Experience in the development of experimental setups and instrumentation (at least 2-4 years)
- Basic experience in manufacturing of polymer composites.
- Experience in characterization of polymer composites would be an asset.

### **Salary:**

**\$30,000.00 - \$35,000 per annum**

### **How to apply:**

Interested applicants must submit a curriculum vitae with a covering letter by May 31, 2019, to the attention of Dr. S.V. Hoa: [hoasuon@alcor.concordia.ca](mailto:hoasuon@alcor.concordia.ca)

Concordia University is committed to Employment Equity and encourages applications from women, Aboriginal Peoples, visible minorities, ethnic minorities, and persons with disabilities.