POSITION AVAILABLE

POSTDOCTORAL FELLOW
IN SOFT X-RAY SPECTRO-MICROSCOPY

I am seeking a postdoctoral fellow interested in using advanced synchrotron based materials analysis tools to help advance materials for automotive polymer electrolyte membrane fuel cells (PEM-FC). Our focus is on developing in situ and eventually operando instrumentation for scanning transmission X-ray microscopy (STXM), using microscopes at the ALS and CLS.

The position will be within the Department of Chemistry and Chemical Biology and affiliated with the Brockhouse Institute for Materials Research at McMaster University. A major focus would be improving, commissioning and using an environmental cell (controlled humidity and temperature) to allow STXM studies under realistic sample conditions (see ECS Transactions 41 **(**2011**)** 395**)**. This project is co-funded by the Automotive Fuel Cell Co-operation (AFCC) and an NSERC Collaborative Research & Development grant. You will collaborate with Dr. Slava Berekjonv (AFCC) and report in part to AFCC through him, as well as to me.

A PhD in chemistry, physics, or materials science required. Ability to work independently, with good oral and written communication skills is essential. Prior experience in X-ray microscopy is desirable but is not required. You should have demonstrated skills at instrument & technique development. Familiarity with NEXAFS spectroscopy, and the synchrotron environment are useful assets.

For further information and examples of the research program please consult
http://unicorn.mcmaster.ca/

How to Apply: Email your curriculum vita, along with names and contact information of three references to aph@mcmaster.ca.

Professor Adam P. Hitchcock
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Deadline: Applications will be accepted until the position is filled.

3 Jun 2014; aph