

### **Postdoctoral Research Position in Radiation Induced Corrosion Chemistry**

The Gateman Research Group is seeking to appoint a Postdoctoral Associate to join our multidisciplinary team in the Department of Chemistry at the University of Western Ontario. The project is in collaboration with the Nuclear Waste Management Organization (NWMO) to increase the confidence of copper coated containers used to encapsulate used fuel in Canada. It will focus on understanding the corrosion behaviour of copper coatings under irradiation and provide opportunities to directly interact with the NWMO.

The successful candidate will be responsible for performing corrosion measurements under gamma radiation. It is expected that (s)he will have demonstrated expertise in radiation induced chemistry and corrosion science, obtained over multiples year of experience (including electrochemical methods and immersion testing). It is also preferred for candidates to have experience with analytical instrumentation including ICP-OES and GC-MS, as well as with characterizing corroded surfaces via SEM/EDX, XPS, Raman spectroscopy, and profilometry. Experience with copper corrosion and/or cold spray coatings is desirable.

It is essential that the candidate holds strong written and oral communication skills, as demonstrated by peer-reviewed journal publications and (inter)national conference presentations. Mentorship experience is advantageous as (s)he is expected to mentor graduate students in experimental radiation corrosion chemistry. Frequent interaction with group members is anticipated, which will involve the preparation and submission of journal articles, presentations, and research reports in a timely manner.

#### **Application Details**

This position requires a minimum of a PhD in chemistry (analytical, physical, or materials), or a related discipline and a strong record of publications/patents. The appointment will commence for initially one year (with the possibility of renewal) and will begin as soon as possible. The compensation package includes 50,000 CAD per annum + benefits.

([https://www.uwo.ca/hr/benefits/your\\_benefits/pda/index.html](https://www.uwo.ca/hr/benefits/your_benefits/pda/index.html)).

For more information about London and available family support, please see:

<https://www.uwo.ca/about/visit/london.html> and [https://www.uwo.ca/campus\\_life/family/](https://www.uwo.ca/campus_life/family/).

*The University invites applications from all qualified individuals. Western is committed to employment equity and diversity in the workplace and welcomes applications from women, members of racialized groups/visible minorities, Indigenous persons, persons with disabilities, persons of any sexual orientation, and persons of any gender identity or gender expression.*

Interested candidates should send a cover letter, curriculum vitae, and contact information for two referees to [Samantha.gateman@uwo.ca](mailto:Samantha.gateman@uwo.ca). Please include in the subject line of your e-mail, "Postdoctoral Research Position in Radiation Induced Corrosion Chemistry". Shortlisted candidates will be contacted about their availability for an interview and/or possible additional information. Applications will be considered until the posited is filled.