

# Earth Sciences - Tier 2 Canada Research Chair in Accelerator Mass Spectrometry

## University of Ottawa

**Endroit : Ontario**

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The University of Ottawa invites applications for a Tier 2 Canada Research Chair (CRC) in the André E. Lalonde Accelerator Mass Spectrometry Laboratory (AEL-AMS). Unique in Canada, the AEL-AMS facility, located in the state-of-the-art Advanced Research Complex (ARC), is used by researchers for the analysis of trace radionuclides in the environment and for advancing AMS technologies. The AEL-AMS laboratory operates a 3 MV I-IVE tandem AMS system for the analysis of radiocarbon, tritium,  $^{10}\text{Be}$   $^{26}\text{Al}$ , radiohalides and isotopes of fission fragments and the actinides. The facility also includes an extensive array of sample preparation facilities and a noble gas mass spectrometry Laboratory. AEL-AMS has received funding for a second small AMS system for radiocarbon. Also available in the ARC are a suite of Inductively Coupled Plasma Mass Spectrometry (ICP-MS) instruments, stable isotope facilities, an electron microprobe and scanning electron microscope laboratory and x-ray diffraction/fluorescence instruments. The successful candidate will bring to the AEL-AMS Laboratory a leading-edge research program in AMS applications and/or advanced AMS technologies, focussed on the analysis of fission fragments and actinides. A solid understanding of AMS technologies and AMS sample preparation will be essential, as well as leadership and mentoring skills.

**Tier 2 Chairs**, tenable for five years and renewable once, are for **exceptional emerging researchers**, acknowledged by their peers as having the potential to lead in their field. For each Tier 2 Chair, the institution receives \$100,000 annually for five years.

Candidates should, at a minimum, be assistant or associate professors, or possess the necessary qualifications to be appointed to these levels. Postdoctoral Fellows paid in whole or in part by funds administered by the University of Ottawa are not eligible to apply. Nominating institutions may nominate a professor or a researcher who is more than 10 years from their highest degree at the time of nomination and has experienced legitimate career interruptions (see acceptable justifications). In such cases, institutions must submit to the Secretariat a formal justification (using the Tier 2 Justification Screening Form), explaining why the nominee is still considered to be an emerging scholar. The University recognizes the legitimate impact that leaves (e.g., parental leave, leave due to illness) can have on a candidate's record of research achievement and that these leaves will be taken into careful consideration during the assessment process. New CPC nominees are also eligible for infrastructure support from the Canada Foundation for Innovation (CFI) to help acquire state-of-the-art equipment essential to their work.

**Required qualifications:** PhD or equivalent in Earth Sciences, Environmental Sciences, Geophysics, Physics or other AMS-related discipline. A demonstrated excellent research track record in AMS-related disciplines and proof of interdisciplinary collaborations, a commitment to teaching and graduate training, and the ability to obtain external research funding. Excellent communication skills in either English or French. A passive knowledge of the other official language would be an asset.

**Rank and salary:** Regular academic tenure-track appointment in the Faculty of Science, with a salary and rank consistent with the collective agreement of the Association of Professors of the University of Ottawa.

**Application Package:**

- A cover letter;
- An up-to-date curriculum vitae (if applicable, explain any career interruptions that might have affected research productivity);
- A research plan (2 to 3 pages) including a summary of research objectives with the AMS lab, and a statement of how the applicant will integrate with the range of geoscience facilities in the ARC;
- A statement of teaching interests (1 to 2 pages); and
- Three recent peer-reviewed publications, in PDF format; and
- The names of three people who may be contacted by the University for letters of reference which will follow the Canada Research Chairs guidelines (i.e. one arm's length and two who are not affiliated to the University of Ottawa unless they are the candidate's PhD or postdoctoral supervisor).

**Self-Identification Form:** The University of Ottawa strongly supports a workplace environment that removes disparities experienced by the designated groups in Canada: women, Indigenous peoples, persons with disabilities and members of visible minorities, as defined in the *Employment Equity Act*. We encourage all applicants from the four designated groups to fill the following form:

[https://research.uottawa.ca/sites/research.uottawa.ca/files/edi\\_questionnaire\\_ovrp\\_for\\_prizes\\_en\\_24-oct-2018-converted\\_fillable.pdf](https://research.uottawa.ca/sites/research.uottawa.ca/files/edi_questionnaire_ovrp_for_prizes_en_24-oct-2018-converted_fillable.pdf)

**Deadline:** September 30, 2019

The selection process will begin in October and will continue until the position is filled. Only candidates selected for an interview will be contacted. Please send the application package to the following address or by email to:

Dr. Sylvain Charbonneau, Vice-President, Research  
University of Ottawa  
550 Cumberland St., room 246  
Ottawa, ON K1N 6N5 CANADA  
rcca-coord@uOttawa.ca

*If you are invited to continue the selection process, please notify us of any particular adaptive measures you might require by contacting the Office of the Associate Vice-President, Faculty Affairs at 613-562-5958. The Canada Research Chairs Program imposes no restrictions on nominees with regard to nationality or country of residence. Procedures to allow non-Canadian chairholders to work in Canada have been established by Employment and Social Development Canada and Immigration, Refugees and Citizenship Canada.*

*The University of Ottawa is justly proud of its 160-year tradition of bilingualism. Through its Official Languages and Bilingualism Institute, the University provides training to staff members and their spouses in their second official language. At the time of tenure, professors are expected to be able to function in a bilingual setting. In certain cases, professors must have the ability to teach in both official languages to be granted tenure.*