The Molecular Medicine Lab co-located in the Department of Chemistry & Biomolecular Sciences at the University of Ottawa and the University of Ottawa Heart Institute is accepting applications for a postdoctoral fellowship in synthetic chemistry. The anticipated start date will be as soon as possible with a duration of 2 years with opportunities for renewal. The postdoctoral fellow will be involved in projects that will develop novel MRI contrast agents tackling activity-based sensing with a translational focus.

**Molecular Medicine Lab Background Information**
The Molecular Medicine Lab (located in Ottawa, Canada) develops and implements molecular imaging probes across fluorescent, MRI and PET modalities. With a focus on inflammation/cell stress and enzyme activities key to cancer therapy response, the Molecular Medicine Lab is comprised of chemists, biochemists and biologists that design, synthesize and implement new molecular imaging agents. The laboratory has access to state-of-the-art facilities for compound synthesis and characterization, radiochemistry, cell culture and microscopy, and small animal MRI and PET instrumentation. More information about the research group can be found here: https://www.molmedlabuo.com/

**Research Project Overview**
The postdoctoral fellow will be engaged in the development of fluorophores and MRI contrast agents for enzyme targets involved in fibrinolysis. In this project, the postdoctoral fellow will synthesize the activity-based probes, with the chance to evaluate their specificity and utility *in vitro* and *in vivo* in mouse models of cancer. The fellow will also support the general synthetic needs of the research program.

**Research Project Supervisor and Principal Investigator**
Dr. Adam Shuhendler

**Salary**
The postdoctoral fellow will be offered a competitive salary commensurate with experience. Registering as a postdoctoral fellow at the Office of the Vice-Provost, Graduate and Postdoctoral Studies (OVPGPS) is mandatory prior to undertaking your fellowship. Registering will allow you access to, among other things, a testimonial of completion, conference travel grant and activities offered through the Altitude professional skills-development program.

**Position Duties and Responsibilities**
The incumbent of this position will, under the direction of Dr. Shuhendler, be responsible for leading the research activities of the project, including but not limited to the following core responsibilities:

- Synthesis of activity-based probes
- Coordination chemistry for MRI probes

- Running mass spectral and NMR analyses
- Maintaining pumps, freeze dryer, and HPLC
- Supporting the training of graduate students

**Job Requirements**

- Ph.D. in Chemistry or a related field
- Expertise in synthetic organic chemistry
- Experience with performing mass spectrometry
- Experience with HPLC maintenance
- Experience with cell culture an asset

The University of Ottawa and the Molecular Medicine Lab are committed to fostering diversity within its community as a source of excellence, cultural enrichment, and social strength. We welcome those who would contribute to the further diversification of our university including, but not limited to: women; visible minorities; First Nations, Inuit and Métis peoples; persons with disabilities; and persons of any sexual orientation, gender identity and/or expression. The Molecular Medicine Lab understands that career paths vary. Legitimate career interruptions will in no way prejudice the assessment process and their impact will be taken into careful consideration.

We thank all applicants for their interest, however, only those selected for an interview will be contacted. If contacted for an interview, please inform us should accommodation be required, and arrangements will be made in a timely manner. All qualified candidates are encouraged to apply.

**How to Apply**
Candidates that would like to apply for this fellowship opportunity are invited to submit their cover letter along with a resume/CV to Dr. Adam Shuhendler at ashuhend@uottawa.ca.