# Posting

**RESEARCH ASSOCIATE**

<table>
<thead>
<tr>
<th>Position Title:</th>
<th>Research Associate</th>
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<tr>
<td>Hiring Unit:</td>
<td>McConnell Brain Imaging Centre</td>
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<tr>
<td>Supervisor:</td>
<td>Dr. Alexey Kostikov</td>
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<td>Work Location:</td>
<td>Montreal Neurological Institute (MNI)</td>
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<tr>
<td>Hours/Week &amp; Schedule:</td>
<td>40 hours/Week – Monday to Friday</td>
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<td>Hourly Wage:</td>
<td>$27.18</td>
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<td>Planned Start Date &amp; End Date:</td>
<td>April 1, 2020 – December 31, 2020 (possibility of renewal)</td>
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<tr>
<td>Date of Posting: (post for 5 working days minimum)</td>
<td>February 27, 2020</td>
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<td>Deadline to Apply:</td>
<td>March 13, 2020</td>
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## PRIMARY DUTIES

The candidate will work independently on basic research projects in the laboratory of Dr. Kostikov at the McConnell Brain Imaging Centre at the Neuro. His/her work will be focused on the development of radiochemical methods to incorporate positron-emitting isotope fluorine-18 into silicon-containing organic molecules designed for applications in positron emission tomography (PET). He/she will synthesize a library of organic compounds containing silicon-fluorine bonds, investigate their stability in physiological conditions and develop methods of radiolabeling the promising lead compounds with fluorine-18. It will also be his/her responsibility to assist with the evaluation of the radiolabeled tracers in animal models, including animal handling, tracer injections and data analysis. He/she will work in a highly collaborative environment on the multidisciplinary projects and will coordinate the studies and contribute to the writing of manuscripts and grant applications. The candidate will also participate in the supervision of graduate and summer trainees, if required.

## EDUCATION/EXPERIENCE

Applicants should have a PhD in Chemistry, with five (5) years of relevant postdoctoral or alternative experience in chemistry, preferably with organic synthesis and biochemical components.

## OTHER QUALIFYING SKILLS & ABILITIES

- Experts in chemistry: multi-step organic synthesis, organic analytical methods, including NMR, HRMS, UV-Vis, HPLC and other applicable techniques.
- Advanced in: PET radiochemistry with a focus on fluorine-18 labelled compounds.
- Familiarity with: animal handling, PET acquisition and image data analysis.
- Excellent written and verbal communication skills (English essential, French an asset).
- Ability to mentor graduate students and summer trainees.
- Ability to work in a multidisciplinary team environment.
- Strong organization skills, attention to detail and priority setting skills.
- Ability to work autonomously in a complex, changing, deadline-oriented environment.
- Valid Workplace Hazardous Materials Information System (WHMIS) and Radiation Safety (RS) trainings.
- Advanced knowledge of PET radiolabeling techniques.
- Good knowledge of PET acquisition and data analysis principles.
- Knowledge of good research practice.
- A strong publication record in chemistry.

## HOW TO APPLY

Please submit your CV and a list of references to: alexey.kostikov@mcgill.ca.

We thank all applicants for their interest; however, only applicants selected for an interview will be contacted.

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**McGill University is committed to equity in employment and diversity. It welcomes applications from indigenous peoples, visible minorities, ethnic minorities, persons with disabilities, women, persons of minority sexual orientations and gender identities, and others who may contribute to further diversification.**

**All qualified applicants are encouraged to apply; however, in accordance with Canadian immigration requirements, Canadians and permanent residents will be given priority.**