



---

<b>Project title</b>	Biology of Hematopoietic Stem Cell Engraftment
<b>Study level(s)</b>	<input type="checkbox"/> MSc <input checked="" type="checkbox"/> PhD <input checked="" type="checkbox"/> Postdoctorate
<b>Principal investigator(s)</b>	<a href="#">Elie Haddad, M.D. PhD</a>
<b>Project duration</b>	3 to 5 years
<b>Start date</b>	As soon as possible

---

Date of posting: 2021-01-19

### Research laboratory presentation

Elie Haddad's laboratory is studying various aspects of the human immune system, spanning from stem cells to cancer immunotherapy, in both fundamental and translational research. The CHU Sainte-Justine will be the administrative center.

### Research project description

A PhD student or post-Doctoral position is currently open in the lab. Hematopoietic stem cell engraftment is at the core of many innovative therapies in oncology, immune deficiencies, immunotherapies and gene therapies. Many of these innovations rely on hematopoietic stem cell manipulations, which can be tricky because of the nature of these cells. The proposed project aims at getting a better understanding of hematopoietic stem cell biology in order to improve the efficacy of engraftment of those cells. This project combines cutting-edge technology in cellular biology and humanized mouse technology. The student will be assigned a research project that will allow him/her to apply a translational research approach. The student will have the opportunity drive a project from the conceptual design to the pre-clinical assays in animal models. The candidate will benefit from the complementary expertise of a multidisciplinary team and of a rich research environment. In addition, he/she will benefit from cutting-edge methods and technologies in the field.

### Required training and profile

Candidates must :

- Hold an appropriate degree for the targeted level (MSc for PhD; PhD or M.Sc. with a MD degree without the right to practice for post-doctoral fellowship) and excellent academic record;
- Demonstrate motivation and autonomy to bring this project to term;
- Possess a strong knowledge in immunology and experimental techniques (eg. Flow cytometry, cellular biology);
- Have experience with the handling of laboratory animals;
- Have good communication and organization skills;
- Established publication records;
- Speak and write in English;
- Although University of Montreal and the CHU Sainte-Justine are french-speaking institution, it is not required that the candidate speaks and/or understand French.



### Conditions

The student must apply for admission at the University of Montreal as a PhD or a postdoctoral fellow and will comply with all applicable eligibility conditions.

Postdoctoral fellows at the CHUSJ are Scholarship recipient postdoctoral fellows (stagiaires postdoctoraux boursiers (SPB)). They are considered as researchers in training and are not employees of the CHUSJ. They are paid in the form of a scholarship (stipend), not a salary. For this reason, CR-CHUSJ postdoctoral fellows are not eligible for employment insurance, parental insurance, pension plans and other benefits exclusive to employees. Taxes will be deducted at the source.

The CHU Sainte-Justine has a minimum remuneration policy for all its students and postdoctoral fellows. Remuneration may come from the researcher's funds or from an external nominal award. The candidate will have to apply for external scholarships to obtain a nominative award.

The duration of research development is conditional:

- On the availability of research funds;
- To the project's progress;
- Eligibility of the intern to renew its status as postdoctoral fellow at the university.

### Submit your application

Interested candidates are invited to submit their application by email to **Dr Élie Haddad** at: [labo.haddad@gmail.com](mailto:labo.haddad@gmail.com), including:

Please provide:

- ✓ *Curriculum vitae*
- ✓ Most recent transcripts
- ✓ Cover letter
- ✓ References

### Elie Haddad, M.D. PhD,

Full Professor, Department of Pediatrics, Faculty of Medicine, Université de Montréal  
Clinician, Clinical Immunology and Allergy, CHU Sainte-Justine

### Equity, diversity and inclusion

The masculine gender is used without discrimination and for the sole purpose to facilitate reading. The CHU Sainte-Justine subscribes to the principle of equal access to opportunities and invites women, members of visible and ethnic minorities, persons with disabilities and Indigenous people to apply. We would appreciate it if you could inform us of any disabilities that would require technical and physical accommodation adapted to your situation during the selection process. Please be assured that we will treat this information as confidential.

### Studies at the CHU Sainte-Justine Research Center



Pursue your [graduate or postdoctoral studies](#) at the **CHU Sainte-Justine Research Center**, and be one of the 500 students, fellows and interns involved in accelerating the development of knowledge in the field of maternal, child and adolescent health, whether in basic or clinical research. Under the supervision of prominent scientists, especially in leukemia, rare pediatric diseases, genetics, perinatology, obesity, neuropsychology and cognition, scoliosis and rehabilitation, you will have the opportunity to work with multidisciplinary scientific teams and collaborators from all over the world.

### About the CHU Sainte-Justine Research Center

**CHU Sainte-Justine Research Center** is a leading mother-child research institution affiliated with Université de Montréal. It brings together more than 200 research investigators, including over 90 clinician-scientists, as well as 500 graduate and postgraduate students focused on finding innovative prevention means, faster and less invasive treatments, as well as personalized approaches to medicine. The Center is part of CHU Sainte-Justine, which is the largest mother-child center in Canada and the second most important pediatric center in North America. More on [research.chusj.org](https://research.chusj.org)

