MSc Student Position - Dalhousie University.

The Gala-Lopez laboratory at the Department of Surgery, Dalhousie University is seeking an exceptional student to complete a master's program while performing a study to reduce alloreactivity of organs preserved ex-vivo for transplantation. Our laboratory uses an ex-vivo machine perfusion system to characterize the preservation process and the resulting tissue damage, as well as different strategies to rescue marginal organs and make them usable for transplantation.

Location: Faculty of Medicine, Dalhousie University (Halifax campus).

Responsibilities: Under the supervision of Dr. Gala-Lopez, you will be responsible for conducting research and development of in-vitro and in-vivo projects related to kidney preservation and transplantation based on an experimental rat model. The student will be responsible for animal surgical procedures and post-transplant care, including sample collection. The candidate will collaborate with other team members to perform analytical assays to measure different tissue biomarkers. The applicant will also be responsible for creating the necessary databases and lead the data analysis to come to conclusions. At the end of the project, it is expected that you will present your results in scientific meetings and submit the most relevant findings to peer-reviewed journals.

As a MSc student, you will have to complete the necessary course credits and upon completion of the program, the defense of a thesis. In addition, regular contributions to, and attendance at, a Journal Club and a Seminar series, will be a requirement to ensure a firm grounding in experimental methods.

The program has a minimum of 2 years and candidates must satisfy the general requirements for admission to the Faculty of Graduate Studies. Academic English proficiency is mandatory.
https://www.dal.ca/faculty/gradstudies/apply-graduate-studies/admission-requirements.html

Applicants must be highly motivated and collaborative, with experience in laboratory animal experimental work and microsurgical techniques. Candidates should be able to independently perform most of their experiments and research program, but will have assistance from the PI, research technician and other laboratory members.

The Gala-Lopez laboratory is housed at Dalhousie University's Tupper Building with the necessary infrastructure to perform transplant-related experimental work. It also provides ample opportunities for collaborations. We access state-of-the-art analytical technology and microscopes with dedicated expert operators. Dalhousie University is located in Halifax, Nova Scotia, and is one of Canada's oldest

universities and Atlantic Canada's leading research-intensive institution. It is located at walking distance to downtown.

Qualified candidates should submit their application by email in PDF format documents, including:

(1) a cover letter stating the candidate's suitability for the position;
(2) a full CV, including training, all publications and presentations;
(3) contact information for three individuals willing to provide references

Please send all applications and inquiries to b.gala-lopez@dal.ca. Applications will be reviewed as they are received.