

01 June 2018

## MSc position in laser-bioprinting of angiogenesis models

A M.Sc. position in laser-bioprinting of angiogenesis models is available at the Maisonneuve-Rosemont Hospital Research Center (CR-HMR). The student will join the laboratories of **Dr. Boutopoulos** (Biomedical applications of lasers) and **Dr. Larrivée** (Developmental and pathological angiogenesis) at CR-HMR.

### Project description

The stimulation of spatially guided angiogenesis is of great importance for tissue regeneration therapies. Guided angiogenesis can be stimulated by a controlled micro-environment of exogenous growth factors. The student will employ an emerging laser bio-printing technology to develop such angiogenesis models *in-vitro*. He/she will also use advanced imaging and immunostaining techniques to validate the efficacy of the technique in promoting guided vascular growth. The successful candidate will have an opportunity to join an interdisciplinary research environment and acquire solid training and expertise in lasers, biomedical imaging and cell biology techniques.

### Student profile

- Self-motivated.
- Experience in lasers/optics and/or mammalian cell culture is an asset.
- Knowledge of French is required for MSc candidates.
- Strong writing and communication skills in English.
- PhD candidates might be also considered for the position.

Students will be enrolled in the Biomedical Engineering program at UdeM.

**Salary:** According to the CRHMR salary range for graduate students.

**Application:** For additional information, please contact Dr. Boutopoulos or Dr. Larrivée by email. For applying, send us your CV and university transcripts by email.

**Application deadline:** open until filled.

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