

Ph.D. and Post-doc positions in Nanomedicine

G-Incs Lab (<https://www.g-incslab.com/>) in the Faculty of Medicine at the University of Ottawa is looking to recruit Ph.D. students and Post-docs in the broad research area of creating diagnostics/theranostics/nanomedicines for cancer, cardiovascular and neurodegenerative diseases. Our lab's research is at the interface of chemistry, nanotechnology, and medicine and focuses on developing translatable therapeutic strategies and clinical solutions for human diseases. Our projects are highly collaborative, and candidates will have opportunities to work with investigators at the National Research Council Canada (NRC), Ottawa Heart Institute, Children's Hospital of Eastern Ontario (CHEO), and Ottawa Hospital Research Institute (OHRI). They can also be part of NMIN (<https://www.nanomedicines.ca/>) and INTBIOTECH (<https://www.intbiotech.ca/code/indexEN.html>) and be part of a rich HQP training environment.

Candidates must have broad experience in one or more of the following areas during their masters/PhD and be interested in exploring other disciplines:

Organic/polymer/biomaterials chemistry, biomedical engineering, 3D bioprinting, molecular biology, RNAi, mRNA, gene-editing tools like CRISPR, nano-immunotherapies, macrophage biology, inflammation/neuroinflammation, metabolism, animal models and pharmacology.

We are seeking applications to fill the following positions immediately:

PhD and a Post-Doc position in antibody engineering, phage display technology, mRNA technology, macrophage biology, nano-formulation, and cell and gene therapy solutions. Candidates will work on our collaborative projects with NRC focused on intracellular mRNA-mediated protein expression, antibody-mediated nanomaterial delivery, nanomaterials-based macrophage modulation, and the development of RNA-based agents for in vivo cell-specific targeting. They will be co-supervised by PIs at the NRC.

Post-doc position in neuroinflammation and brain delivery. The candidate will work on a collaborative project to develop nanoparticle systems for brain delivery. We are interested in developing nose-brain delivery and/or blood-brain barrier crossing nanoparticle systems and studying their therapeutic effects in neurodegenerative disease settings.

EDI and HQP commitment. We want to foster a diverse and inclusive environment in our lab. Our lab members have different scientific, educational, and cultural backgrounds. We are very supportive and care deeply about our team members, and we work hard to create a personalized working environment and a plan for each HQP to succeed in reaching their respective goals. We also want to maintain and improve our diversity and will consider applications that can improve our scientific, educational, and cultural diversity.

To apply, please submit a complete CV, a cover letter, and the names and contact information of three references to Dr. Suresh Gadde at Suresh.Gadde@uottawa.ca

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