Job Posting: 40032 - Position: Research Assistant

Co-op Work Term Posted:	2023-2024
Application Deadline	01/30/2023 11:59 PM
Application Method:	Online via system
Posting Goes Live:	01/16/2023 3:54 PM
Job Posting Status:	Approved

ORGANIZATION INFORMATION

Organization	Brigham & Women's Hospital, Harvard Medical School
Division	Brigham and Women's Hospital
Website	https://www.thejoshilab.com

JOB POSTING INFORMATION

Position Type	Professional Experience Year Co-op (PEY Co-op: 12-16 months)
Job Title	Research Assistant
Job Location	Boston, MA
Job Location Type	On-Site
If working on site, can you provide a copy of your COVID- 19 safety protocols?	Yes
Number of Positions	6
Start Date	May 01, 2022 12:00 AM
End Date	April 30, 2023 12:00 AM
Job Function	Research
Job Description	

Note: This is a stipendary position. The lab will support you in obtaining a work visa.

Research Assistant The Joshi Lab – Brigham and Women's Hospital, Harvard Medical School https://www.thejoshilab.com Biomaterials and Drug Delivery

Project Title: Next generation biomaterials for therapeutic applications

Project Scope: The student will develop next generation biomaterials; including hydrogels, microparticles and nanoparticles for multiple therapeutic applications, through a highly multidisciplinary approach. These biomaterials and their therapeutic formulations will be characterized using dynamic light scattering (DLS), chromatography, FTIR, transmission electron microscopy and other characterization techniques. Additionally, the student will also evaluate the therapeutic effects of these formulations in vitro using cell culture assays.

The Joshi Lab is a part of the Department of Anesthesiology, Perioperative and Pain Medicine and the Center for Nanomedicine at the Brigham and Women's Hospital. Our goal is to develop translatable drug delivery technologies to address unmet clinical needs. Working at the interface of chemistry, material science, biology, and medicine, our highly interdisciplinary and collaborative research focuses on solving medical problems across a wide range of diseases, including arthritis, HIV, lung inflammation, and brain related disorders.

In addition to the rich research environment among top institutions in Boston such as Harvard and MIT, the student will gain exposure to other translational projects in the lab. The research assistant is expected to be enthusiastic, sincere and most importantly — a team player. The student will have opportunity to master his/her skills in research planning, scientific presentation and writing, and appreciate unique challenges in academia versus industry.

Job Requirements

Preferred Disciplines

Prerequisites:

- Enthusiasm and willingness to accept challenges to perform high impact research.
- It's preferred but not necessary that the student should have some knowledge of drug delivery or formulations and/or taken courses on Biology, Biomaterials, Organic Chemistry, Analytical Chemistry, Nanotechnology, Bio nanotechnology etc.
- Experience in academic or industrial research, or team-based projects will be an extra asset.

Chemical Engineering Engineering Science (Biomedical) Engineering Science (Nanoengineering) Engineering Science (Physics) Engineering Science (Robotics) Materials Engineering Mechanical Engineering Biochemistry Biological Chemistry Chemistry Molecular Biology & Biotechnology Neuroscience Pharmaceutical Chemistry Pharmacology & Toxicology

APPLICATION INFORMATION

Application Receipt Procedure Online via system

Additional Application Information

Please apply online with cover letter, resume & unofficial transcript to the attention of: Prof. Nitin Joshi.

Why should you apply?

We care deeply about mentoring and our unique style allows undergrads to have a lot of independence to think creatively in their research. Our goal for undergrads is not just to implement the tasks given by senior members of the lab, but to build your creative, analytical and communication skills. Previous research experience is not required. If you are hardworking, motivated and self-driven we encourage you to apply. Previous students from U of T that have worked at the Joshi Lab have been named on patents, lead authorships on publications and have gone on to do an MD or PhD in top schools.

ADDITIONAL INFORMATION

Length of Workterm

FLEXIBLE PEY Co-op: 12-16 months (range)