

Ph.D. Positions in Bioprinting and Biosensing

The Laboratory for Innovations in Microengineering (LiME) at the Department of Mechanical Engineering of the University of Victoria is currently seeking two Ph.D. students to start in September 2018 or earlier. These positions are focused on the development of biosensors and 3D bioprinting of tissues. Students who are interested in performing cutting-edge research in that areas are highly encouraged to contact Dr. Akbari (makbari@uvic.ca) with “PhD-Biosensing” and “PhD-Bioprinting” in the subject line. **Emails with other subject lines will not be considered.**

The ideal candidates are expected to have an M.S. degree (in chemistry, tissue engineering, biomaterials, chemical engineering, electrical engineering, or closely related fields). Previous research experiences on bioprinting, biosensor design, nanotechnology, and cell culture will be favorable. In addition, excellent writing and verbal communication skills will be highly valued in the application review process. The minimum acceptable TOEFL (Test of English as a Foreign Language) score is 585 on the paper-based test or 95 on the Internet-based test (the minimum score for each section is Writing: 20; Speaking: 20; Reading: 20; Listening: 20). A minimum acceptable IELTS score is 7.0. The minimum requirement for admission to the MEng is B and for the M.S. is B+ grade point average of 6.0 on the University of Victoria scale of 9.0). The candidates who do not meet the abovementioned requirements will not be considered for these positions.

Prospective students are encouraged to send the following materials in a single PDF directly to Dr. Mohsen Akbari: a cover letter stating your research interests and career goals, your C.V., your transcripts, names and contact information of at least three references, and a copy of representative peer-reviewed publications (if applicable). Review of applications will begin immediately and will continue until both positions are filled. Those who considered for interviews will be contacted directly. The successful candidates will receive competitive funding support and the ability to apply for teaching assistant positions.

Research at LiME lies at the interface of cellular biology, biomaterials, and microtechnologies. Three key research areas at Dr. Akbari's lab are:

- biofabrication of engineered tissue substitutes for regenerative medicine,
- development of biomimetic tissue models using microengineering techniques for disease modeling and drug discovery, and
- development of advanced drug-delivery systems for therapeutic applications.

Our lab provides an active learning and highly collaborative and interactive environment for students to gain hands-on experiences in design and development of microscale platforms, tissue engineering, polymer synthesis and cancer research. Our mission is to establish a unique and interdisciplinary research and educational program that can have a significant impact on the quality of human life. More information about LiME can be found at <http://www.lime-makbari.com>.