The Department of Cellular & Physiological Sciences invites applications for a part-time Sessional Lecturer(s) to teach the following courses to students of Biomedical Engineering.

COURSE DESCRIPTION

**BMEG 245, section 101 (4 credits course)**
The Fundamental Units of Life: From Cell to Systems
Winter 2023/2024, Term 1
September 5, 2023 to December 31, 2023

**Overview:** This is a basic course in cell biology for individuals with a strong background in math and physics, and limited background in biology. The course consists of 36 hours of lectures and 36 hours of laboratory exercises (Four different labs, each is three hours long and the class is divided into three sections).

**RESPONSIBILITIES**
Reporting to the Head of the UBC Department of Cellular & Physiological Sciences, the incumbent will be responsible for:
- Overseeing and delivering the laboratory component of the BMEG 245, section 101 Winter 2023/2024, Term 1 course. All of the lab exercises have run successfully so course development is not required. Six teaching assistants will be provided.

**BMEG 350, section 201 (4 credits course)**
Human Structure/Function from Cells to Systems
Winter 2023/2024, Term 2
January 8, 2024 to April 12, 2024

**Overview:** Human anatomy, histology and physiology with examples from biomedical engineering. Anatomical compartmentation and function regulation; homeostatic control systems, sensors and effectors; intercellular communication strategies; and cellular and organ function assessment.

**RESPONSIBILITIES**
Reporting to the Head of the UBC Department of Cellular & Physiological Sciences, the incumbent will be responsible for:
- Preparing and developing course material for teaching BMEG 350 Winter 2023/2024, Term 2
- Delivering 36 hours of lectures to biomedical engineering students who have limited background in biological sciences. Lecture slides and course content have already been developed but could be modified by the successful candidate.

**QUALIFICATIONS**
The successful candidate(s) will have:
- A PhD
- Post-doctoral training and prior teaching experience is not required but will be considered an asset
- The incumbent will be expected to have exceptional communication skills.
- Applicants must be familiar with the following techniques to deliver the laboratory component of the BMEG 245, section 101:
  - mammalian cell culture, fluorescent staining and imaging
  - image analysis of stained cell cultures and tissue sections using Fiji/ImageJ
✓ plasmid preps, restriction digests, and agarose gel-based electrophoresis
✓ basic bioinformatic analysis (i.e. blast searches, sequence alignments)

- Candidate must have a strong background in human physiology to deliver course material for teaching BMEG 350.

**Salary:** Based on sessional lecturer’s salary scale as per the UBCFA Collective Agreement.

**APPLICATION PROCEDURE**

Applications from those internal and external to UBC are encouraged, as are those who may be able to deliver the required content for both courses

Applicants should include with the letter of application:
1) An anonymized executive summary of the applicant’s teaching philosophy, interests, effectiveness and experience (1 page). This document will reduce unconscious bias in the initial review and cannot contain references to specific articles the candidate has published, or to identifying information such as the candidate’s name, gender, specific courses taught or the name of institutions where they have studied and worked. The summary will be scored alongside the CV. Please address the following in your summary: a) Describe how your teaching philosophy is tailored to reach broad populations of students including your beliefs about how students learn and how they approach teaching and learning. b) Outline your prior experience in teaching and educational leadership, including breadth of courses you have taught, the academic level of the students you have instructed, and any new or unique teaching techniques you have employed. c) Outline any experience in curriculum design, development and innovation or service to the academic community related to teaching, such as serving on curriculum committees or mentoring new faculty/students. d) Summarize your record of teaching effectiveness in terms of both quantitative and qualitative assessments, which may include student evaluations, peer evaluations, or other assessments of teaching quality.
2) A CV, which includes a record of experience and a detailed list of all post-secondary courses taught (course name and number, length, credit value, dates, and teaching responsibilities)
3) If available a sample outline of the courses taught
4) Evidence of teaching effectiveness, if available; and
5) Contact information for 3 referees

Applications should be directed to:
Ayaka Bosshard, Assistant HR Manager
Department of Cellular & Physiological Sciences
ayaka.bosshard@ubc.ca

Subject Line: BMEG Teaching - Sessional Lecturer Position

Applications will be accepted until July 31, 2023 and continue until the position is filled.

For more information, please visit cps.med.ubc.ca

All positions are subject to availabilities of funds and will be governed by UBC’s “Agreement on Conditions of Appointment for Sessional Faculty Members”.

**ABOUT THE DEPARTMENT OF CELLULAR & PHYSIOLOGICAL SCIENCES**

For more than fifty years, the Department of Cellular & Physiological Sciences has played an active and important role at UBC and in the greater scientific community. The Department runs the Undergraduate CAPS Program in the Faculty of Science and offers a number of undergraduate lecture and laboratory courses for Honours, and soon-to-be Majors undergraduate programs. Additionally, the department teaches a number of specialized courses for the School of Biomedical Engineering program. The Department’s research is diverse, with Investigators working in a wide range of invertebrate and vertebrate model systems using molecular biology, biochemical, cellular and physiological approaches to understand the fundamental mechanisms regulating human health through development and aging and the pathophysiology of diseases. We have particular strength in cancer, cardiovascular physiology, development,
endocrinology and neuroscience, and incorporate the latest technologies in molecular biology, genetics, next-generation genomics, proteomics, bioinformatics, and genetically-engineered animal models to complement our expertise in cell biology and physiology.

At UBC, we believe that attracting and sustaining a diverse workforce is key to the successful pursuit of excellence in research, innovation, and learning for all faculty, staff and students, and is essential to fostering an outstanding work environment. Our commitment to employment equity helps achieve inclusion and fairness, brings rich diversity to UBC as a workplace, and creates the necessary conditions for a rewarding career.

The University is committed to creating and maintaining an inclusive and equitable work environment for all members of its workforce. An inclusive work environment presumes an environment where differences are accepted, recognized, and integrated into current structures, planning, and decision-making modes. Within this hiring process we will make efforts to create an inclusive and equitable process for all candidates (including but not limited to people with disabilities). Confidential accommodations are available on request for applicants who are short-listed. Please contact Zaira Khan via email at zaira.khan@ubc.ca

To learn more about UBC’s Center For Workplace Accessibility, visit the website here https://hr.ubc.ca/health-and-wellbeing/working-injury-illness-or-disability/centre-workplace-accessibility.

The University of British Columbia - One of the World’s Leading Universities. As one of the world’s leading universities, the University of British Columbia creates an exceptional learning environment that fosters global citizenship, advances a civil and sustainable society, and supports outstanding research to serve the people of British Columbia, Canada and the world.

Our Vision: To Transform Health for Everyone.

Ranked among the world’s top medical schools with the fifth-largest MD enrollment in North America, the UBC Faculty of Medicine is a leader in both the science and the practice of medicine. Across British Columbia, more than 11,000 faculty and staff are training the next generation of doctors and health care professionals, making remarkable discoveries, and helping to create the pathways to better health for our communities at home and around the world.

The Faculty - comprised of approximately 2,200 administrative support, technical/research and management and professional staff, as well approximately 650 full-time academic and over 9,000 clinical faculty members - is composed of 19 academic basic science and/or clinical departments, three schools, and 24 research centres and institutes. Together with its University and Health Authority partners, the Faculty delivers innovative programs and conducts research in the areas of health and life sciences. Faculty, staff and trainees are located at university campuses, clinical academic campuses in hospital settings and other regionally based centres across the province.

The UBC Vancouver Campus is located on the traditional, ancestral, and unceded territory of thex́wəθəy̓əm (Musqueam) people. The City of Vancouver is located on Musqueam, Squamish, and Tsleil-Waututh First Nations territory.

Equity and diversity are essential to academic excellence. An open and diverse community fosters the inclusion of voices that have been underrepresented or discouraged. We encourage applications from members of groups that have been marginalized on any grounds enumerated under the B.C. Human Rights Code, including sex, sexual orientation, gender identity or expression, racialization, disability, political belief, religion, marital or family status, age, and/or status as a First Nation, Metis, Inuit, or Indigenous person. All qualified candidates are encouraged to apply; however Canadians and permanent residents of Canada will be given priority.

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