The School of Biomedical Engineering at the University of British Columbia, Vancouver campus, invites applications for a part-time Sessional Lecturer to teach the following Biomedical Engineering courses:

**BMEG 500**
Orientation to the Clinical Environment
2021 WINTER TERM 1 (September to December 2021)

**COURSE DESCRIPTION**
This course is designed to familiarize students with the activities of healthcare workers and patient experiences that may have engineering implications, the operations of biomedical and clinical engineering facilities, and the manufacturing and regulatory considerations in medical device development. Students will participate in seminars, tours (as permitted by COVID-19 safety protocols), and shadowing experiences to engage with various personnel to identify and discuss open problems in the biomedical domain.

**BMEG 501**
Interdisciplinary Team Project in Medical Innovation
2021/2022 WINTER TERMS 1 & 2 (September 2021 to April 2022)

**COURSE DESCRIPTION**
This is a course in medical technology innovation which will bring together engineering students and clinicians (physicians, nurses, and other allied health professions), end users (patients and caretakers), business experts (medical device entrepreneurs and venture creation specialists), and engineering professors in a formal process of clinical problem identification and prioritization, which will lead to ideas for interdisciplinary team projects to be conducted over the academic year. In a series of clinical engagement workshops, the students will be exposed to a range of clinical problems, on which they will perform structured research and apply a formal process of needs filtering to identify the most compelling project for each team. Trainees will have an exceptional opportunity to engage with clinical personnel and seek their input at all stages of the design, development, and testing processes. Through this course, students will develop a practical understanding and appreciation of the many considerations involved in developing technology to address clinical needs.

BMEG 500 and BMEG 501 are part of the Engineers in Scrubs (EiS) program, which will be delivered in a combination of virtual and in-person formats for the 2021/2022 academic year. Most classes will be held on Thursday mornings, but there will likely be some variances due to the availability of clinical/industrial partners.

**Date/Time:** Winter 2021/2022, Terms 1 & 2
**Lecture:** 2 hours per week
**Laboratory:** 2–4 hours per week
**Required Texts and Other Materials:** All materials will be provided online
**Salary:** Based on sessional lecturer’s salary scale as per the UBCFA Collective Agreement
RESPONSIBILITIES
Reporting to the Director of the Engineers in Scrubs program who in turn report to the Director of the School of Biomedical Engineering, the incumbent will be responsible for leading the process of engagement with clinical and industrial partners to arrange guest seminars and site tours for BMEG 500 and solicit project ideas for BMEG 501. They will be the primary instructor and main point of student contact for BMEG 500, and will design a syllabus and grading scheme based on the materials from previous years. Additionally, the incumbent will co-teach BMEG 501 along with a full-time faculty member at 25%/75% split. In this co-instructional capacity, the incumbent will ensure the students follow the design process described in the course materials and have the appropriate resources to conduct their engineering projects. The incumbent will be available as a mentor to provide guidance through the more subjective aspects of technology innovation.

QUALIFICATIONS
The successful applicant will have post-secondary training experience and a record that provides evidence of teaching effectiveness as an instructor or teaching assistant in field of biomedical engineering. Expertise in overseeing team projects in biomedical technology conducted with a formal process of engineering design, such as the Stanford Biodesign process, is essential. In addition, formal training and/or experience in biomedical entrepreneurship is strongly preferred. The successful applicant will have completed a Master’s or above in biomedical engineering before teaching starts. Candidates are expected to have excellent communication skills and working knowledge of modern teaching methods and supporting tools.

APPLICATION PROCEDURE
Applicants should include with the letter of application:
- 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);
- Evidence of teaching effectiveness, if available; and
- Contact information for two referees

Applications should be directed to:
Rita Amisano
Human Resources Manager
School of Biomedical Engineering
sbme.hr@ubc.ca
Subject Line: BMEG 500 & 501 Sessional Lecturer Position

Applications will be accepted until August 15, 2021, or until position is filled.

For more information, please visit [www.bme.ubc.ca](http://www.bme.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 SBME
The Faculties of Medicine and Applied Science have partnered to create the School of Biomedical Engineering (SBME), a new flagship entity at UBC, and a top strategic priority for the University and both Faculties. The SBME is a nucleus for education and training, research, and innovation in biomedical engineering, creating new knowledge, new academic and training programs, and fostering translation and innovation. The vision of the School is focused on building health from biology through a robust pipeline of efforts across scales from engineering the molecular structures to implementing novel community based healthcare solutions. The SBME faculty conducts research that advances our fundamental understanding of human biology, and yields technologies and therapies that advance our health and wellbeing. Our instructors will teach our students many aspects of engineering, including the practice of accepted engineering methods, as well as how research can lead to the development of new technologies or the discovery of new
The University of British Columbia is a global centre for research and teaching, consistently ranked among the top 20 public universities in the world. Since 1915, UBC’s entrepreneurial spirit has embraced innovation and challenged the status quo. UBC encourages its students, staff and faculty to challenge convention, lead discovery and explore new ways of learning. At UBC, bold thinking is given a place to develop into ideas that can change 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 12,000 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 Of Medicine is comprised of approximately 2,200 administrative support, technical/research and management and professional staff, as well approximately 650 full-time academic and over 10,000 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 Faculty of Applied Science includes all UBC Engineering activities at both the UBC Vancouver and UBC Okanagan, as well as the Schools of Architecture and Landscape Architecture, Community and Regional Planning and Nursing. The Faculty was one of UBC’s three founding faculties, admitting some of the University’s first students in engineering in 1915. The Faculty includes over 300 full-time faculty members and more than 8,600 students.

The Faculty of Applied Science comprises a unique constellation of disciplines and is committed to creating lasting change by discovering and applying knowledge. Our core purpose is to discover, design, and innovate, provide unwavering top-tier education, and champion a community of responsible professionals devoted to serving a thriving, sustainable and healthy society. Our work and the professional disciplines we represent span the entire human-centred built environment. We represent innovation at all scales from nanoscale electronic devices that power communications to the design of entire cities.

**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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