



SUMMER 2025 TEACHING ASSISTANT POSITIONS

Course	Time per term	Course Description/TA skills
<u>BMEG 200</u>	60h for 1 TA over one summer term	Biomedical Engineering Bridge Module Core concepts of biomedical engineering with a focus on advanced biological concepts that are inherent in biomechanics analysis, biomaterials signals and systems, bioinformatics and cellular bioengineering.
<u>BMEG 402</u>	60h for two TAs over one summer term	Impact of Biomedical Engineering on Society, Sustainability and Environmental Stewardship Impact of biomedical engineering on health, safety, and political, cultural, economic, and environmental implications of biomedical engineering design.
<u>BMEG 400H</u>	96h for 1 TA over one summer term 82h for two TAs over one summer term	Topics in Biomedical Engineering – SynBio Bootcamp This course immerses students in the synthetic biology design-build-test cycle, equipping them with core skills for engineering basic DNA devices. Students will gain experience in using Modular Cloning to assemble DNA in plasmids, scale-up of plasmids in bacterial culture, quality control of DNA using gel electrophoresis and Sanger sequencing, and testing of DNA in mammalian cells by transfection and fluorescence measurements.
<u>BMEG 400R</u>	60h for two STAs over one summer term	Prototyping Bootcamp



BMEG 457	72h for one TA over both summer terms	Biomedical Engineering Design Project Capstone design and development of a practical biomedical device or system. Projects provided by local industry and engineering research laboratories. This position will help prepare for instruction in 2025W
BMEG 490	30h for one TA in Term 1 and 2 (May 19 start date)	Introduction to Academic Research
BMEG 500/501	104h for one STA over both summer terms	BMEG 500 Orientation to Clinical Environment Operation of biomedical and clinical engineering facilities at hospitals. Daily activities of healthcare workers. Patients experience. BMEG 501 Interdisciplinary Team Project in Medical Technology Innovation These are part of the Engineers in Scrubs program. These positions will help prepare for instruction in 2025W. <u>Preferred Qualifications</u> <ul style="list-style-type: none">- Familiarity with the Stanford biodesign process and how it could be adapted for a graduate program in biomedical engineering (e.g., Engineers in Scrubs)- Ability to communicate clearly and tactfully with internal and external partners- Strong organizational, leadership, and mentorship skills and ability to self-moderate- Expertise with Canvas at TA level (ability to create teams, assignments, deadlines, etc.)- Must attend classes at VGH prior to 8AM to set up AV as needed- Must accompany students on clinical site tours (approximately 4, first winter term only)

BMEG 500/501 & BMEG 554	101h for one TA over both summer terms	<p>BMEG 500 Orientation to Clinical Environment Operation of biomedical and clinical engineering facilities at hospitals. Daily activities of healthcare workers. Patients experience.</p> <p>BMEG 501 Interdisciplinary Team Project in Medical Technology Innovation These are part of the Engineers in Scrubs program. These positions will help prepare for instruction in 2025W.</p> <p><u>Preferred Qualifications</u></p> <ul style="list-style-type: none"> - Familiarity with the Stanford biodesign process and how it could be adapted for a graduate program in biomedical engineering (e.g., Engineers in Scrubs) - Ability to communicate clearly and tactfully with internal and external partners - Strong organizational, leadership, and mentorship skills and ability to self-moderate - Expertise with Canvas at TA level (ability to create teams, assignments, deadlines, etc.) - Must attend classes at VGH prior to 8AM to set up AV as needed - Must accompany students on clinical site tours (approximately 4, first winter term only) <p>BMEG 554 Medical Technology Innovation</p>
BMEG 591U	32h for one TA over both summer terms	MEng Capstone
Summer Online BMEG Coding Bootcamp (non-credit)	45h for one TA over one term	BMEG Coding Bootcamp

Find more information here: <https://bme.ubc.ca/teaching-assistantships/>