



The Chinese University of Hong Kong



Faculty of Engineering Department of Biomedical Engineering

MPhil-PhD Programme (碩博銜接課程)

Postgraduate programmes (研究生課程)

bmepegadm@cuhk.edu.hk

<http://www.bme.cuhk.edu.hk>

This articulated MPhil/PhD programme in Biomedical Engineering is offered by the Faculty of Engineering as an inter-disciplinary programme in close collaboration with the Faculty of Medicine. Building on the strengths of the two Faculties in biomedical sciences and engineering, our programme aims to educate future leaders who can master the fundamental knowledge base and innovate technology to address various health and clinical challenges in our time and beyond.

Why here?

CUHK is a world-leading comprehensive research university which has been consistently ranked among top universities internationally and in Asia Pacific region (e.g., globally ranked 46th according to QS ranking 2020). Only founded in 1991, the Faculty of Engineering has been already highly ranked in recent pollsters. The Division of BME was launched by the Faculty of Engineering in close collaboration with the Faculty of Medicine. There is a wide diversity of high quality research in BME fields in the Division. The Faculty members are PhD degree holders from the world's top universities (e.g., Caltech, Cambridge, Columbia, Cornell, Imperial College, MIT, etc.). Many of them also serve on the editorial boards of leading international journals and flagship conference organizing committees.

Fields of Specialization:

Biomaterials and Regenerative Medicine

Biomaterials scaffolds and bioactive coatings, stem cell technology, microenvironmental cues in stem cell differentiation, biophysical stimulation and mechanobiology

Biomolecular Engineering and Nanomedicine

Lab-on-a-chip biosensors, point-of-care devices, microfluidic manipulation and detection of biomolecules, bacterial and mammalian cells, bionanotechnology and delivery of diagnostic and therapeutic molecules

Biomedical Imaging and Informatics

Optical microscopy & spectroscopy, fMRI, computer-aided diagnosis, bioinformatics, health informatics, telemedicine

Medical Instrumentation and Biosensors

Wearable sensors and mobile health, home healthcare technology, surgical robotics, wireless capsule endoscopy, wearable robotics for rehabilitation

Financial Assistance:

HKPFS awardees: HK\$26,600 per month

Regular MPhil-PhD students: HK\$18,025-18,525 per month
(Nearly all the admission offers to full-time MPhil and PhD studies in the BME Division will come with scholarships)

Admission Requirements:

- * Meet the general qualifications required for admission to the Graduate School, e.g., 'Have a Bachelor's degree, or equivalent, in a relevant engineering, science, or medical discipline from a recognized university'.
- * Interested in learning and acquiring new skills across disciplines to address the interdisciplinary challenges in biomedical engineering.

Applicants must also submit in English his/her CV, research outputs, an indicative statement of research interest or purpose of study (about 500 words), academic transcript (showing ranking in class if available), copies of awards (such as scholarships), certificates, and other honors received.

Application Deadline: 1 December 2020

Applicants should ensure the application materials arrive at the department office before the deadline.

Candidates who consider themselves very outstanding and are interested in CUHK biomedical engineering research are encouraged to apply for the BME PhD Programme and the Hong Kong PhD Fellowship Scheme (HKPFS) jointly. The application deadline of the HKPFS is 1 December 2020 at 12:00 noon Hong Kong Time (www.gs.cuhk.edu.hk/hkpbs). A reference number will be generated from the HKPFS application for our admission record. **The applicants who select CUHK BME programme as their first choice in the HKPFS application will be given higher priority for admission.**

(Non-local applicants are advised to apply our HKPFS Summer Workshop in March/April of each year to get a chance to visit our campus and laboratories around early July: <http://hkpbs.org.cuhk.edu.hk/>)

Applicants who apply for the BME PhD programme directly with CUHK (i.e. non-HKPFS applications) are advised to apply as early as possible, preferably by 1 December 2020.

For PhD candidates who are deemed outstanding, early offers would be possible.

Enquiries:

Department of Biomedical Engineering
General Office, 11/F, William M.W. Mong Engineering Building
The Chinese University of Hong Kong
Shatin, N.T., HONG KONG

Tel: (852) 3943 8278 / 3943 1935
Fax: (852) 3942 1024
Website: www.bme.cuhk.edu.hk/new/mphil-phd.php
Email: bmepegadm@cuhk.edu.hk

Admission Advisor:

Prof. BIAN Liming
Tel: (852) 3943 8342
Email: lbian@cuhk.edu.hk