

Division of Biomedical Engineering

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 with the aim 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.

MPhil-PhD in Biomedical Engineering

Admission Code: EMB

Programme

MPhil Stream

An MPhil student is required to complete a number of graduate courses offered by the Division, or by other Divisions of the Faculties of Engineering, Medicine and Science, subject to the approval of the supervisor and Division Head. The student must submit a satisfactory thesis and successfully defend it within the period. Students with good academic performance in their first year of study may be permitted to transfer to the PhD Stream.

PhD Stream*

All students in the PhD Stream are admitted initially in the pre-candidacy status. After completing a required number of graduate courses, passing a candidacy examination, and having successfully defended the thesis proposal, the student will be allowed to progress to the post-candidacy status. The student must complete within the time period a satisfactory PhD thesis with substantial amount of original research work, and have the thesis properly written, presented and successfully defended to the satisfaction of the Graduate School.

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 Nano Medicine

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

Medical Imaging and Informatics

- Computer-aided diagnosis, fMRI, THz biomedical imaging & spectroscopy, 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

Admission Requirements

Applicants must meet the general qualifications required for admission to the Graduate School¹. Applicants should have a Bachelor's degree, or equivalent, in a relevant engineering, science, or medical discipline from a recognized university. Applicants are expected to be interested in learning and acquiring new skills across disciplines, in order to address the interdisciplinary challenges in biomedical engineering.

Additional Application Information

Applicants must also submit in English his/her CV, research outputs, an indicative statement of research interest or purpose of study (about 500 words), and copies of awards, certificates, and other honors received.

Admission Advisor

Prof. Raymond TONG
(852)-3943 8454
kytong@cuhk.edu.hk

Application Deadline

1 December 2016

For applicants who apply for PhD programme through the Hong Kong PhD Fellowship Scheme (HKPFS)² (non-local applicants are advised to apply our HK PhD Fellowship Summer Workshop in April 2017 to visit our campus and laboratories around July 2017)

HK PhD Fellowship Summer Workshop: <https://info5.erg.cuhk.edu.hk/phdsw>

1 December 2016

For applicants who apply for MPhil programme directly with CUHK

Throughout the year

For applicants who apply for PhD programme directly with CUHK (i.e. non-HKPFS applicants are advised to apply as early as possible, preferably by 1 December 2016)

* Subject to the final approval of the Faculty Board, students in the PhD Stream will be required to complete at least 7 courses (21 units) as the minimum graduation requirement starting 2017-18 entry.

CONTACT METHODS

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¹ For the general qualifications required for admission to the Graduate School, please refer to pages 16-17.

² For information on HKPFS, please refer to page 17.