



Department of
Biomedical Engineering
The Chinese University of Hong Kong

TOWN HALL MEETING

(Term 2, 2024-25)

Prof. Aaron Ho

BME Department Chairperson

20 March 2025 (Thur)

11:30 AM – 12:30 PM

(BME Website => Students => Undergraduate Students => Town Hall Meeting)



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



CUHK Biomedical Engineering



BMEDEPT



CUHK Biomedical Engineering



Regular Town Hall Meeting

Town Hall meetings will be held every semester to ensure good communication with students in BME.



Agenda

- Programme Outcomes
- Summer Internship (Overseas and Local)
- Stream Preference and Declaration
- Elective Course Offering in 2025-26 (Tentative)
- BME Graduates Survey 2024
- Programme Curriculum Updates
- Others



Programme Outcomes

Programme Outcome	
PO 1	an ability to master the required knowledge of mathematics, science, and engineering and apply them appropriately to the BME discipline in general and/or to a specialized BME area
PO 2	an ability to design and conduct experiments, collect data on humans and other biological specimens, and to analyze and interpret data to address health-related issues
PO 3	an ability to design a system, component or process to meet desired needs within realistic constraints, and to develop innovative technologies to serve the healthcare needs of society
PO 4	an ability to identify, formulate and solve engineering problems critically
PO 5	an ability to use the techniques, skills, and modern engineering tools necessary for BME practice
PO 6	an ability to use the computer/IT tools relevant to the BME discipline along with an understanding of their processes and limitations
PO 7	an ability to communicate effectively
PO 8	an ability to demonstrate leadership, to manage projects, and to function on multi-disciplinary teams
PO 9	an ability to understand professional and ethical responsibility, and the impact of engineering solutions in a global and social context, especially the importance of health, safety and environmental considerations to both workers and the general public
PO 10	a readiness to engage in lifelong learning to stay abreast of contemporary issues, and a capacity to acquire new knowledge and skills across disciplinary boundaries

Programme Outcomes

Matching between the Programme Outcomes and the HKIE Graduate Attributes

HKIE Graduate Attributes	BME Programme Outcomes
a) an ability to apply knowledge of mathematics, science, and engineering appropriate to the degree discipline	PO1
b) an ability to design and conduct experiments as well as to analyze and interpret data	PO2
c) an ability to design a system, component or process to meet desired needs within realistic constraints, such as economic, environmental, social, political, ethical, health & safety, manufacturability & sustainability	PO3
d) an ability to function on multi-disciplinary teams	PO8
e) an ability to identify, formulate and solve engineering problems	PO4
f) an ability to understand professional and ethical responsibility	PO9
g) an ability to communicate effectively	PO7
h) an ability to understand the impact of engineering solutions in a global and social context, especially the importance of health, safety and environmental considerations to both workers and the general public	PO9
i) an ability to stay abreast of contemporary issues	PO10
j) an ability to recognize the need for, and to engage in lifelong learning	PO10
k) an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice appropriate to the degree discipline	PO5
l) an ability to use the computer/IT tools relevant to the discipline along with an understanding of their processes and limitations	PO6

Summer Internship Opportunities

1. BME Overseas Research Exchange
2. Local Internship
 - BME Undergraduate Research Internship
 - Faculty Undergraduate Summer Research Internship
 - Government, Hospitals & Companies



Summer Internship Opportunities

1. BME Overseas Summer Research Exchange (Summer 2025, 8-10 weeks)

Oversea Institutions:

- Monash University, Melbourne
- National Tsing Hua University, Taiwan
- New Jersey Institute of Technology, America
- New Zealand College of Chiropractic, New Zealand
- University of Washington, America
- All information has been uploaded to our Department's website

http://www.bme.cuhk.edu.hk/new/overseas_internship.php

Summer Internship Opportunities

1. BME Overseas Summer Research Exchange (Summer 2025, 8-10 weeks)

Interested students should complete the attached application form and submit it with all required documents to the department at bmeinfo@cuhk.edu.hk by **20 December 2024 (Fri)**.

***** Late applications will not be considered *****

Important Date

Application Deadline	20 December 2024
Interview by the BME Panel	9 -10 January 2025
Matching and Nomination to the Hosts	11 - 24 January 2025
Interview and Decision by the Hosts	25 January – 7 February 2025
Official Notification of Acceptance	By the end of February 2025

Summer Internship Opportunities

2. Local Internship

BME Undergraduate Research Internship

http://www.bme.cuhk.edu.hk/new/ug_internship.php

Students must demonstrate strong academic performance, **with a cumulative GPA of 2.8 or higher**. Please note that **final-year students are not allowed to participate during the summer**.

The screenshot shows the CUHK BME website. The header includes the CUHK BME logo and a search bar. A left sidebar contains a navigation menu with links: WELCOME, ABOUT US, RESEARCH, ADMISSION, STUDENTS, STAFF, ALUMNI, UPCOMING BME ACTIVITIES, EQUIPMENT BOOKING, and RECRUITMENT. The main content area features a large graphic of a DNA double helix and the text 'BME UNDERGRADUATE RESEARCH INTERNSHIP 2024-25'. At the bottom, a 'DOCUMENTS' section lists three links: 'Programme Information (link)', 'Details of Vacancy (Open for Application) (link)', and 'Application Form (link)'. A large pink arrow points to the 'Application Form (link)'.

CUHK BME

WELCOME
ABOUT US
RESEARCH
ADMISSION
STUDENTS
STAFF
ALUMNI
UPCOMING BME ACTIVITIES
EQUIPMENT BOOKING
RECRUITMENT

BME UNDERGRADUATE RESEARCH INTERNSHIP 2024-25

DOCUMENTS

- Programme Information ([link](#))
- Details of Vacancy (Open for Application) ([link](#))
- Application Form ([link](#))

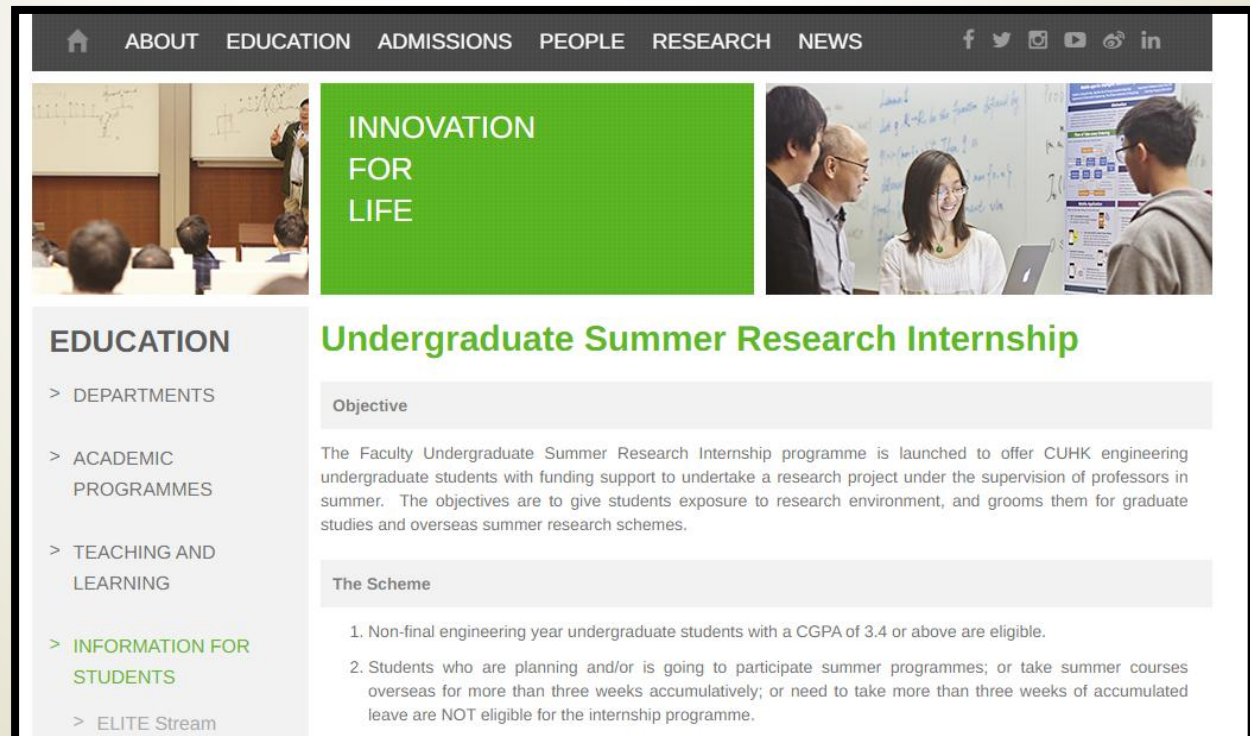
Summer Internship Opportunities

2. Local Internship

Faculty Undergraduate Summer Research Internship

<https://www.erg.cuhk.edu.hk/erg/SummerResearchInternship>

Non-final year undergraduate students with a **cumulative GPA of 3.4 or above** are eligible to apply.



The screenshot displays the website for the Faculty Undergraduate Summer Research Internship. The top navigation bar includes links for ABOUT, EDUCATION, ADMISSIONS, PEOPLE, RESEARCH, and NEWS, along with social media icons. The main banner features the text "INNOVATION FOR LIFE" on a green background, flanked by images of students in a classroom and a group of students working on a laptop. Below the banner, the "EDUCATION" section is visible on the left, with a sidebar menu containing links for DEPARTMENTS, ACADEMIC PROGRAMMES, TEACHING AND LEARNING, INFORMATION FOR STUDENTS (highlighted in green), and ELITE Stream. The main content area is titled "Undergraduate Summer Research Internship" and contains sections for "Objective" and "The Scheme".

EDUCATION

- > DEPARTMENTS
- > ACADEMIC PROGRAMMES
- > TEACHING AND LEARNING
- > **INFORMATION FOR STUDENTS**
- > ELITE Stream

Undergraduate Summer Research Internship

Objective

The Faculty Undergraduate Summer Research Internship programme is launched to offer CUHK engineering undergraduate students with funding support to undertake a research project under the supervision of professors in summer. The objectives are to give students exposure to research environment, and grooms them for graduate studies and overseas summer research schemes.

The Scheme

1. Non-final engineering year undergraduate students with a CGPA of 3.4 or above are eligible.
2. Students who are planning and/or is going to participate summer programmes; or take summer courses overseas for more than three weeks accumulatively; or need to take more than three weeks of accumulated leave are NOT eligible for the internship programme.

Summer Internship Opportunities

2. Local Internship

Government, Hospitals & Companies

- CUHK Medical Centre (2)
- Gleneagles Hospital (1)
- Hong Kong Adventist Hospital (Stubbs Road) (1-2)
- Hong Kong Adventist Hospital (Tsuen Wan) (1-2)
- Hospital Authority (1-2)
- St Paul's Hospital (2)
- GE Medical Systems HK Ltd (2)
- DBS (1)



Stream Preference and Declaration

Students may choose not to specialize in any stream or to specialize in one of the three streams and complete **at least 12 units from the elective courses listed in the study scheme**, at most one elective at 2000 or below level, plus BMEG4998/ESTR4998 and BMEG4999/ESTR4999, prescribed by the stream.

Important Date

By **9 February 2025 (Sun)**

Survey on Stream Preference & BMEG Elective Course Offering in the next academic year 2025-26. (For Year 1 Senior-year entry and Year 2 or above students)

<https://cloud.itsc.cuhk.edu.hk/webform/view.php?id=13700210>

By **30 May 2025 (Fri)**

Students who are expected to graduate in Term 2, 2024-25, and would like to declare stream, please complete the form

<https://cloud.itsc.cuhk.edu.hk/webform/view.php?id=13703626>

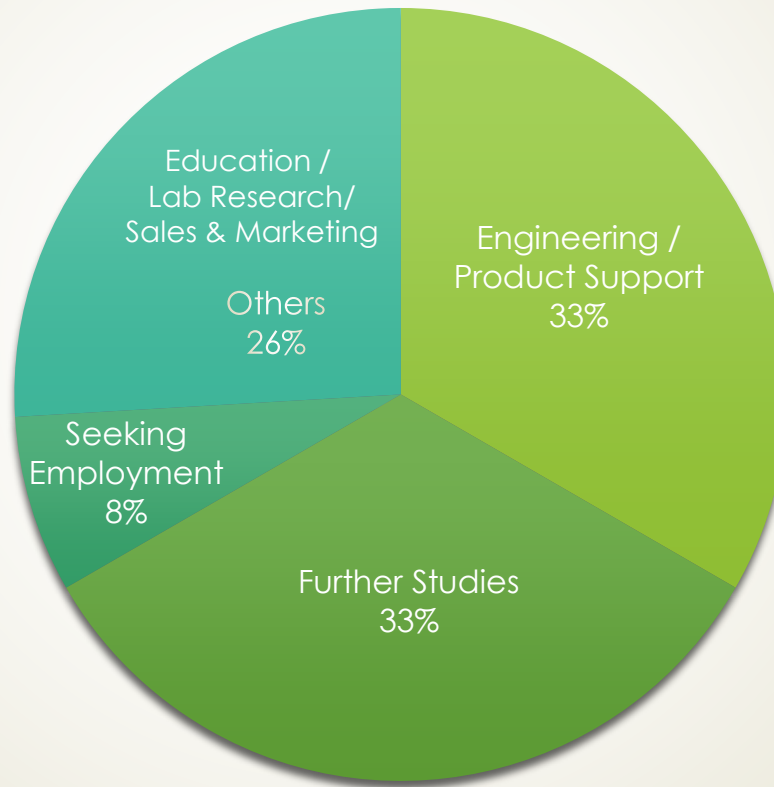
A Certified Letter for the BME Stream will be issued to students who have fulfilled the course requirement of the stream by August 2025.

Elective Course Offering 2023-26

Course Code	Stream	Course Title	Unit(s)	2023-24 (Term)	2024-25 (Term)	2025-26 (Term)
BMEG3102	BIIM	Bioinformatics	3	2	2	x
BMEG3103	MIB/ BIIM	Big Data in HealthCare	3	1	1	1
BMEG3105	BIIM/MCTE	Data Analytics for Personalized Genomics and Precision Medicine	3	1	1	1
BMEG3130	MIB	Tele-Medicine and Mobile Healthcare	3	-	-	1
BMEG3140	MCTE	Molecular and Cellular Engineering Laboratory	3	1	1	1 or 2
BMEG3210	MIB/MCTE	Biofluids	3	2	-	x
BMEG3330	MIB	Neuroengineering	3	2	1	1
BMEG3420	MIB	Medical Robotics	3	-	2	2
BMEG3440	MIB/BIIM/ MCTE	Global Engineering Medical Innovation	3	2	2	2
BMEG3910	-	Undergraduate Research in Biomedical Engineering	3	1 & 2	1 & 2	1 & 2
BMEG3920	-	Cross-Cultural Biomedical Collaboration for Global Health Challenges (NEW)	3	-	Summer	Summer
BMEG4220	MIB	Wearable Biomedical Devices and Personalized Healthcare	3	-	1	1
BMEG4320	BIIM	AI & Imaging for Biomedical Engineering	3	1	-	1
BMEG4410	MIB/MCTE	BioMEMS	3	2	-	2
BMEG4450	MIB/MCTE	Bionanotechnology	3	2	2	2
BMEG4510	MCTE	Biomolecular Engineering	3	-	2	x
BMEG4520	MIB/BIIM/ MCTE	Cardiovascular Engineering	3	2	-	2
BMEG4530	MCTE	Musculoskeletal Tissue Engineering	3	-	2	2

BME Graduates Survey 2024

Graduates Responses: 27



■ Engineering / Product Support ■ Further Studies ■ Seeking Employment ■ Others

For internal use only (BME)

Programme Curriculum Updates

Effective from 2025-26 intake

1. Introduction of the new 2-unit major required course (2000 level) about **Bionic Human and the Future of Being Human**
 - The course broadens students' perspectives on nature, science and technology. Students will learn to appraise with a scientific attitude and to evaluate human's role in being part of nature and the impact of science and technology on modern life.
 - Students taken UGEB/BMEG1217 Bionic Human and the Future of Being Human may consider applying for course substitution (subject to approval by the Department and Faculty).
2. The units of BMEG2602 Hospital Experience and Engineering Practicum will be increased from 1 unit to 2 units.

Programme Curriculum Updates

Effective from 2025-26 intake

3. After the creation of the new major required course and revision of the unit for BMEG2602, the major requirement will be changed as below:
 - Major required courses: increased from 33 units to 36 units
 - Major elective courses: decreased from 15 units to 12 units
 - Stream requirement: no change (Students may choose not to specialize in any stream or to specialize in one of the three streams and complete a minimum of 12 units of courses, at most one elective at 2000 or below level, plus BMEG4998 and 4999[e], prescribed by the stream.)
 - These amendments will not revise the total required units by the BME program, i.e. 75 units.

Collect Feedback from BME students:

1. Do you have any comments on the above proposal?
2. Any comments on adding the new course to the existing study scheme which will be included in the calculation of Major GPA.

Programme Curriculum Updates

Enhancement Courses Updates

BME launched enhancement courses in Mathematics (Term 1) and Biology (Term 2) during the 2018-19 academic year.

The department has decided not to offer these courses starting from the 2025-26 academic year due to low enrollment in recent years.

Students who require academic assistance are encouraged to contact their Academic Advisor for support. The Department will make efforts to provide private tutoring if needed.

CUHK BME Joint Summer Course (Subject to approval by various governing committees)

BMEG3920 Global Innovation and Collaboration in Biomedical Engineering: Big Health Solutions for a Healthier Future (3 credit)

Three Participating Campuses (each campus recruits up to 10 students)

- The Chinese University of Hong Kong, HK
- Glasgow College, UESTC (Chengdu and Hainan), CN
- University of Glasgow, UK

Course Highlights

- **International Collaboration:** Students from all three campuses work together, fostering global perspectives and cross-cultural exchange
- **Dual-Locale Format:** The course is conducted in Chengdu and Hong Kong, scheduled for Summer 2025
- **18-day program** with hands-on projects and interactive learning (9 days in Chengdu and 9 days in Hong Kong)
- **Comprehensive Curriculum:** Combines both classroom teaching and project-based learning

Extracurricular Activities:

- **Cultural Tours:** Discover and experience local traditions
- **Company Visits:** Gain industry exposure and practical insights through site visits in the Greater Bay Area and the Chengdu-Chongqing Economic Circle



香港中文大學
The Chinese University of Hong Kong



University
of Glasgow



Hong Kong



Chengdu



Q & A Session

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