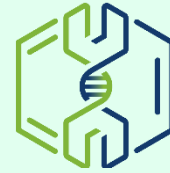




香港中文大學
The Chinese University of Hong Kong



Department of
Biomedical Engineering
The Chinese University of Hong Kong

TOWN HALL MEETING

Make BME Great Together

Prof. Raymond Tong

31 March 2023

<http://www.bme.cuhk.edu.hk/new/files/undergraduatestd/TownHallMeeting31Mar2023.pdf>

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



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



BMEDEPT



CUHK Biomedical Engineering



CUHK Biomedical Engineering



Agenda

1. Programme Outcome & HKIE Required Outcomes
2. Updates on Summer Exchange and Internship
3. Stream Declaration of Final Year Graduating Students
4. Students' Stream Preference
5. Proposed Elective Course Offering in 2023-24
6. Policy of Course Cancellation due to Low Enrollment Rate
7. Graduate Employment Survey
8. Student Ambassadors Scheme
9. Biomedical Engineering Outstanding Achievement Scholarships
10. BME UG Students Recent Awards
11. BME Society
12. BME Activities

Programme Outcome & HKIE Required Outcomes (1)

| 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 Outcome & HKIE Required Outcomes (2)

Matching between the Programme Outcomes and the HKIE Required Outcomes

| HKIE's 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 |

Programme Outcome & HKIE Required Outcomes (3)

Matching between the Programme Outcomes and the HKIE Required Outcomes

Example:

| Programme Outcomes | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 |
|--|---|---|---|--|---|--|-------------------------|---|---|--|
| | Apply knowledge of math, science & engineering to BME | Experiment on humans & biological specimens, analyze & interpret data | Innovate a system, part or process to meet desired needs within constraints | Identify, formulate, & solve engineering problems critically | Use techniques, skills, & modern engineering tools for BME practice | Use IT tools relevant to BME with an understanding of their limitation | Communicate effectively | Lead, manage projects, & function on multi-disciplinary teams | Understand ethics, global, societal & professional responsibilities | Learn new knowledge & skills across disciplines & continuously |
| HKIE Graduate Attributes | A | B | C | E | K | L | G | D | F, H | I, J |
| REQUIRED COURSES | | | | | | | | | | |
| BMEG2001 Intro to BME | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | |
| BMEG2011 BME Lab & Hospital Experience | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |

Updates on Summer Exchange and Internship

Overseas Summer Research Internship

| Overseas University | No. of BME Students who have confirmed to be accepted by the overseas hosts (as of 30 March 2023) |
|---|---|
| University of Sydney, Australia | 1 |
| McGill University, Canada | 2 |
| New Jersey Institute of Technology, United States of America | 2 |
| University of Limoges, XLIM Research Institute (CNRS), France | 1 |
| Singapore Eye Research Institute, Singapore | 2 |

>> apply & follow-up on visa application ASAP

Local Summer Industrial Internships

More may be available later in April/May

e.g. EMSD, CU Medical Centre, Hong Kong Adventist Hospital (Tsuen Wan & Stubbs Road), Johnson & Johnson's etc.

Prepare your CV for the potential Interview by companies

***** Please be alerted of our email notification!! *****

Placement & Internship Programme via CINTEC

<https://pip.cintec.cuhk.edu.hk/web/>



The Placement and Internship Programme (PIP) is initiated by the Faculty of Engineering, The Chinese University of Hong Kong and dedicated to connecting engineering students to job opportunities and resources in order to foster their future career development. The PIP also offers a wealth of support to help students receive the latest job market information and updates by organizing career talks, workshops and job fair.

How students may benefit from PIP?

PIP CUHK Guest

Home / Posted Jobs

Posted Jobs

Search All Jobs (Click to Expand)

List out all posted jobs.

Type description: **G: Graduate Employment** **W: Work Study Programme** **S: Summer Internship** **P: Part-time Jobs**

| Job ID | Company | Job Title | Type | Deadline | Status | Action |
|--------|---|---|------|------------|--------|--------|
| 2508 | FansWiFi Limited | Sales & Marketing Intern | P | 17-03-2023 | Posted | 🔗 |
| 8800 | CoinUnited | Summer Intern | S | 30-04-2023 | Posted | 🔗 |
| 8801 | CoinUnited | Quantitative Analyst | P | 30-04-2023 | Posted | 🔗 |
| 8803 | CoinUnited | Junior Programmer (Machine Learning / AI) Internship | G | 30-04-2023 | Posted | 🔗 |
| 8804 | CoinUnited | Digital Marketing Associate Internship | P | 30-04-2023 | Posted | 🔗 |
| 8805 | CoinUnited | Business Analyst Internship | P | 30-04-2023 | Posted | 🔗 |
| 8806 | CoinUnited | Operation Executive Internship | P | 30-04-2023 | Posted | 🔗 |
| 8872 | PCCW Digital Solutions Limited | Tech Talent - Technology Associate | G | 31-03-2023 | Posted | 🔗 |
| 8873 | PCCW Digital Solutions Limited | Tech Talent - Business Associate | G | 31-03-2023 | Posted | 🔗 |
| 8880 | The Hongkong and Shanghai Banking Corporation Limited | HSBC Hong Kong Student Work Placement Programme | G | 23-04-2023 | Posted | 🔗 |
| 8895 | B.S.C. Interior Contract and Engineering Company Ltd | Project Management Trainee Programme | G | 30-04-2023 | Posted | 🔗 |
| 8937 | STEM Accelerator Limited | Summer Intern (STEM) | S | 31-05-2023 | Posted | 🔗 |
| 8961 | Flow Traders | Graduate Trader | G | 31-03-2023 | Posted | 🔗 |
| 8967 | B.S.C. Interior Contract and Engineering Company Ltd | Project Management Trainee Programme | G | 30-04-2023 | Posted | 🔗 |
| 8992 | Signify Hong Kong Ltd. | Test and Validation Engineer | G | 30-06-2023 | Posted | 🔗 |
| 8993 | Signify Hong Kong Ltd. | Project Engineer | G | 30-06-2023 | Posted | 🔗 |
| 8994 | Signify Hong Kong Ltd. | Key Account Executive | G | 30-06-2023 | Posted | 🔗 |
| 8995 | Millennium Capital Management (Hong Kong) Ltd. | Trading Intern | S | 05-05-2023 | Posted | 🔗 |
| 8998 | Deloitte Touche Tohmatsu | Associate - Assurance Services - Audit & Assurance - HK | G | 31-05-2023 | Posted | 🔗 |

Placement & Internship Programme via Career Planning and Development Centre (CPDC)


<https://cpdc.osa.cuhk.edu.hk/>

Login with your CUHK email
& OnePass Password



EMPLOYER ▾ | STUDENT ▾ | 🔍 | ☰
Login

About Us Self-Discovery Career Education ▾ Coaching ▾ Find a Job ▾ Calendar Contact Us



Alumni@Workplace Video Series

4+4 different industries, 4+4 kinds of attitude towards the pandemic. Enjoy a programme which allows CUHK alumni to exchange their ideas, all arranged and produced by CUHKers.

CU Job Link

All Industries ▾ All Job Natures ▾

Search by company name, position... 🔍



Go to “**CU Job Link**” to look for placement & internship jobs



Highlight Events

Full Calendar



Placement & Internship Programme via Career Planning and Development Centre (CPDC) <https://cpdc.osa.cuhk.edu.hk/>

** Our BME UG students are eligible to apply for jobs under the “STEM Internship Scheme”

- Innovation & Technology related placement
- Allowance for each student intern: HK\$10,500 per month (capped at three months, i.e. 90 calendar days, in one academic year)

CU CAREERS
Career Planning and Development Centre

STEM Internship Scheme 2023
Home > STEM Internship Scheme 2023

Back

By Programme Name
STEM Internship Scheme 2023

STEM Internship Scheme
Supported by Innovation and Technology Fund, The Innovation and Technology Commission (ITC) of the HKSAR Government

STEM Internship Scheme 2023

Launched by the Innovation and Technology Commission (ITC) in 2020, the STEM Internship Scheme (the Scheme) aims to encourage the STEM students to gain innovation and technology (I&T)-related work experience during their studies and to foster their interest in pursuing a career in I&T after graduation, so as to enlarge the local I&T talent pool.

A) Eligibility of Student Interns

- Currently enrolled as full-time students of The Chinese University of Hong Kong;
- Final year students are eligible so long as the internship commences before the expiry of student status and subject to the requirements stipulated in the Guidelines.
- Undergraduates or Postgraduates who are studying one of the STEM programmes listed in [Appendix I](#);

Faculty Undergraduate Summer Research Internship

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

Application Deadline: 3 April 2023

- Non-final year undergraduate students with a cumulative GPA of 3.4 or above are eligible to apply.
- A research grant of up to HK\$10,000 will be awarded to each student for each participant upon completion of the research project with earnest effort well recognized by the supervising professor.

HOME ABOUT EDUCATION ADMISSIONS PEOPLE RESEARCH NEWS



EDUCATION

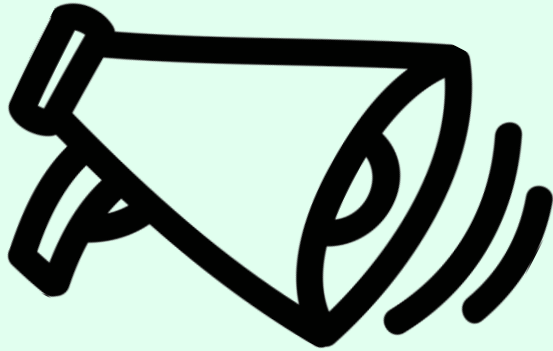
> DEPARTMENTS

> ACADEMIC PROGRAMMES

Undergraduate Summer Research Internship

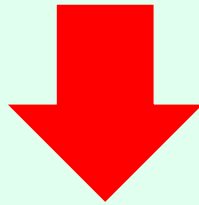
Objective

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 groom them for graduate studies and overseas summer research schemes.



Stream Declaration for BME Final Year Graduating Students

i.e. Students who are expected to be graduated in
2022-23 Term 2



Stream Declaration Form:

<https://forms.gle/wXnrgSSi4PJHmHNA8>

Please complete the online google form **by 2 June 2023 (Friday)**

*** Certified Letter for BME Stream will be issued to students who have fulfilled the course requirement of stream of their admission year*



香港中文大學生物醫學工程學系
Department of Biomedical Engineering
The Chinese University of Hong Kong



香港中文大學生物醫學工程學系
Department of Biomedical Engineering
The Chinese University of Hong Kong



9 July 2021

7 July 2020

TO WHOM IT MAY CONCERN

TO WHOM IT MAY CONCERN

Dear Sir/Madam,

Dear Sir/Madam,

Stream of Specialization

Stream of Specialization

This is to certify that [REDACTED] (Student ID: [REDACTED]) has fulfilled all the requirements for the stream of specialization in **Medical Instrumentation and Biosensors** for BEng (Hons) in Biomedical Engineering.

This is to certify that [REDACTED] (Student ID: [REDACTED]) has fulfilled all the requirements for the stream of specialization in **Molecular, Cell and Tissue Engineering** for BEng (Hons) in Biomedical Engineering.

For verification of student data, please send request to bmeinfo@cuhk.edu.hk or contact us (+852) 3943 1935.

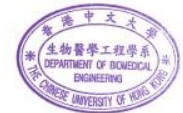
For verification of student data, please send request to bmeinfo@cuhk.edu.hk or contact us (+852) 3943 1935.




香港中文大學生物醫學工程學系
Department of Biomedical Engineering
The Chinese University of Hong Kong



Yours faithfully,




Professor Raymond K.Y. Tong
Chairman
Department of Biomedical Engineering
The Chinese University of Hong Kong

1 August 2020

TO WHOM IT MAY CONCERN

Dear Sir/Madam,

Stream of Specialization

This is to certify that [REDACTED] (Student ID: [REDACTED]) has fulfilled all the requirements for the stream of specialization in **Biomedical Imaging, Informatics and Modeling** for the B.Eng. degree in Biomedical Engineering.

For verification of student data, please send request to bmeinfo@cuhk.edu.hk or contact us (+852) 3943 1935.

Proposed BMEG elective course offering in 2023-24 for consideration

(course offering term and teaching assignment have not yet confirmed)

| Course Code | Stream | Course Title | Unit(s) | 2023-24 (Pending) |
|---------------------------|---------------|---|---------|----------------------|
| BMEG3102 | BIIM | Bioinformatics | 3 | ✓ |
| BMEG3103 | MIB/ BIIM | Big Data in HealthCare | 3 | ✓ |
| BMEG3105/ ESTR3605 | BIIM/MCTE | Data Analytics for Personalized Genomics and Precision Medicine | 3 | ✓ |
| BMEG3140/ESTR3604 | MCTE | Molecular and Cellular Engineering Laboratory | 3 | ✓ |
| BMEG3210/ESTR3212 | MIB/MCTE | Biofluids | 3 | ✓ |
| BMEG3330/ESTR3602 | MIB | Neuroengineering | 3 | ✓ |
| BMEG3440 | MIB/BIIM/MCTE | Global Engineering Medical Innovation | 3 | ✓ |
| BMEG3910 | - | Undergraduate Research in Biomedical Engineering | 3 | ✓ |
| BMEG4220 | MIB | Body Sensor Networks Wearable Biomedical Devices and IoT in Healthcare | 3 | ✓ |
| BMEG4320/ESTR4200 | BIIM | AI & Imaging for Biomedical Engineering | 3 | ✓ |
| BMEG4410/ESTR4203 | MIB/MCTE | BioMEMS | 3 | ✓ |
| BMEG4450/ESTR4202 | MIB/MCTE | Bionanotechnology | 3 | ✓ |
| BMEG4520 | MIB/BIIM/MCTE | Cardiovascular Engineering | 3 | ✓ |

Policy of Course Cancellation Due to Low Enrollment Rate

- Minimum enrollment no. for elective courses: 12
- Elective courses may be cancelled if the enrollment no. is BELOW 12 after the course registration period of the semester
- General Office will inform students who registered the course will be cancelled and provide assistance to students for course registration

Graduate Employment Survey

■ Sales / Marketing

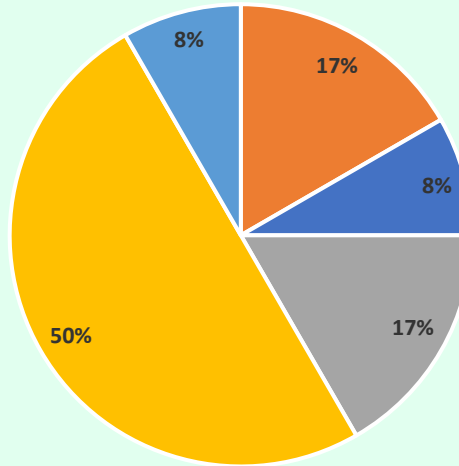
■ Technical Engineering /
Product support

■ Lab / research

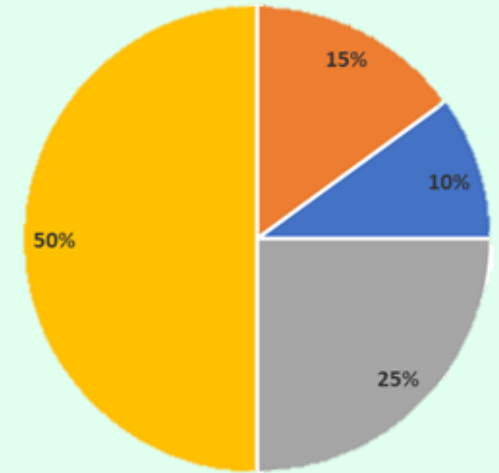
■ Further study

■ Others

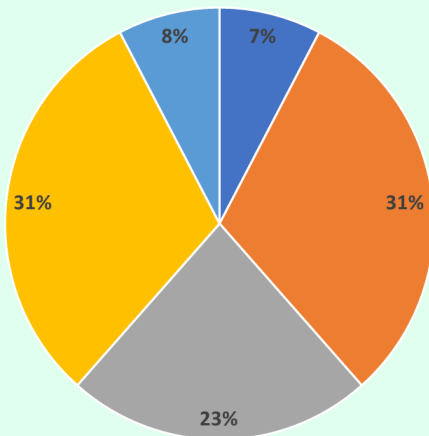
2022



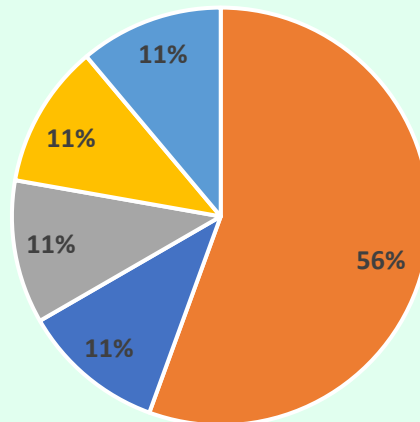
2021



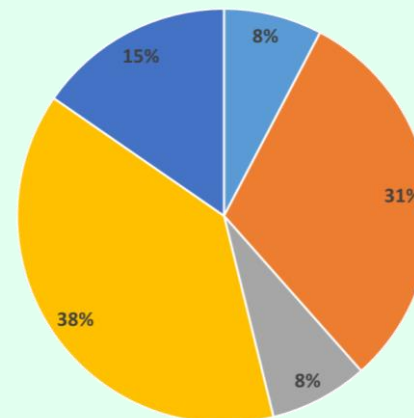
2020



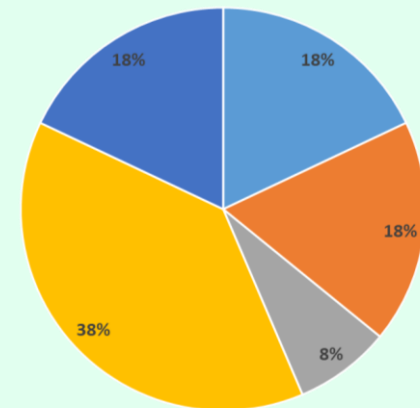
2019



2018



2017



BME Student Ambassadors 2022-23

| Name | Admission Channel | Year of Study | Gender | Contact |
|---------------------------|-------------------|---------------|--------|--|
| CHEUNG Suen | JUPAS | Year 4 | F | 1155142428@link.cuhk.edu.hk |
| LI Szehon Anson | JUPAS | Year 4 | M | 1155141910@link.cuhk.edu.hk |
| SZE Hoi Kuen Patrick | JUPAS | Year 4 | M | 1155142404@link.cuhk.edu.hk |
| WANG Shih-Yu | International | Year 3 | F | 1155156744@link.cuhk.edu.hk |
| WONG Chee Ching CC | Non-JUPAS Local | Year 3 | F | 1155155836@link.cuhk.edu.hk |
| CHANTAWANNAKUL Jarinyagon | International | Year 2 | F | 1155161428@link.cuhk.edu.hk |
| KANNAPPAN Kannammai | Non-JUPAS Local | Year 2 | F | 1155163190@link.cuhk.edu.hk |
| HUQ Mohammad Tahmid Ul | International | Year 2 | M | 1155165056@link.cuhk.edu.hk |
| LEUNG Chung Ki Ricky | JUPAS | Year 2 | M | 1155175455@link.cuhk.edu.hk |



Suen

Anson

Patrick

CC

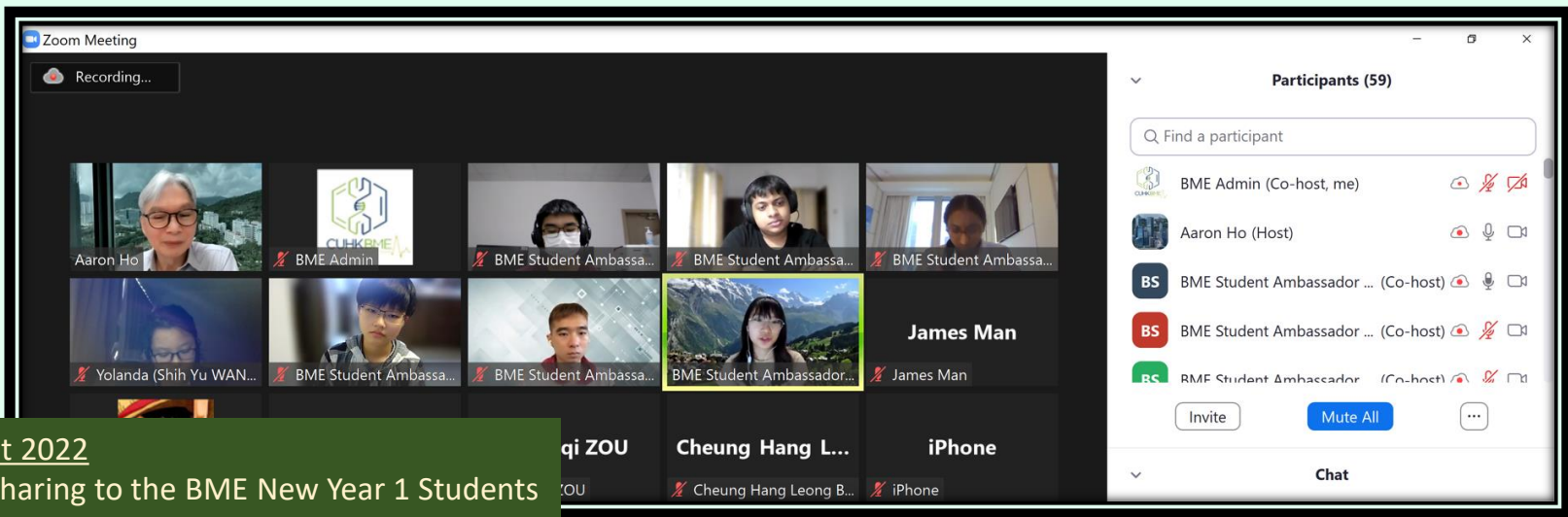
Shih-Yu

Jarinyagon

Kannammai

Tahmid

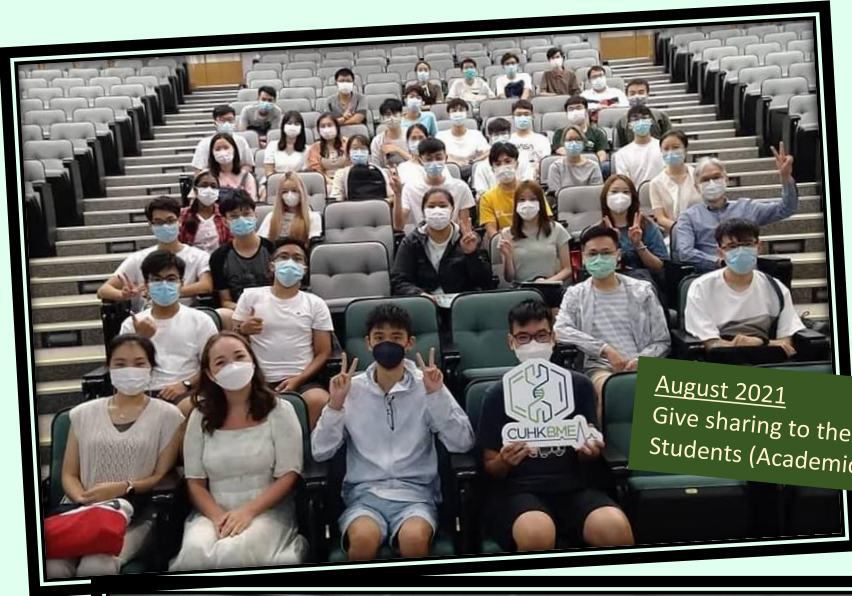
¹⁶Ricky



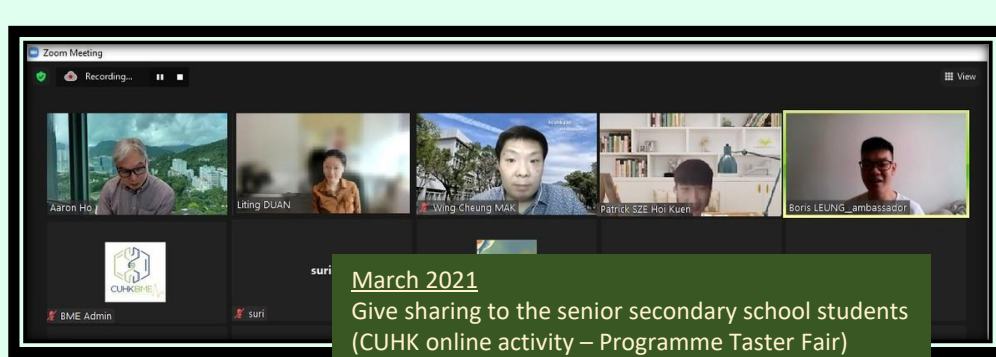
August 2022
 Give sharing to the BME New Year 1 Students
 (Online Orientation Day)

October 2022
 Give sharing to the secondary
 school students
 (CUHK Information Day)





August 2021
Give sharing to the BME New Year 1 Students (Academic Counselling Day)



March 2021
Give sharing to the senior secondary school students (CUHK online activity – Programme Taster Fair)







December 2021
Give sharing to the senior secondary school students



October 2021
Give sharing to the senior secondary school students (BME Consultation Day)

Why you may choose BME?

- Save lives? 
- Career potential? 
- Want to build up your own devices? 
- Just like it? 

July 2021
Make an introduction video about our BME Programme
<https://www.youtube.com/watch?v=WunEaDCQbol>

BME Student Ambassadors

2023-24

<http://www.bme.cuhk.edu.hk/new/student-ambassadors.php>



- nurture peer connections between junior and senior students
- helps new students explore CUHK's learning environment
- develop social network through sharing and interactions with BME buddies

Eligible Applicants

Year 2 or above undergraduate students who are:

- Enthusiastic about serving BME
- Creative, cheerful and confident
- Sincere to share and patient to listen

Certificate of Appreciation will be awarded to Student Ambassadors

Apply Now!

<https://cloud.itsc.cuhk.edu.hk/webform/view.php?id=13665656>

Application Deadline:
31 July 2023 (Monday)



Biomedical Engineering Outstanding Achievement Scholarships

*Awardees in 2021-22:

| Name | Year of Study in 2021-22 |
|---------------------------------|--------------------------|
| CHAN Cheuk Ka | Year 1 |
| CHANTAWANNAKUL Jarinyagon | Year 1 |
| LEUNG Chung Ki Ricky | Year 1 |
| LIU Zhaoyu | Year 3 |
| SIU Man Hei Connie | Year 3 |
| WONG Hoi Lam | Year 3 |
| NG Wing Fai Sofie | Year 4 |
| TSANG Chung Yin Justin | Year 4 |
| LIN Yi Ting Jonathan (Honorary) | Year 3 |
| BAEKOVA Aiana (Honorary) | Year 4 |
| SHYNGYS Moldir (Honorary) | Year 4 |



Biomedical Engineering Outstanding Achievement Scholarships

Number of Award

EIGHT awards of \$10,000 each

Eligibility and Award Criteria

- ✓ Year 1 to Year 4 or above BME undergraduate students
- ✓ Year GPA of 3.0 or above in the previous year of study
- ✓ Participated in co-curricular and/or extra-curricular activities:
 - Awards, especially those related to BME discipline
 - Community Service, e.g. contributions to BME Department and/or Profession
 - Other achievement, e.g. sports, competitions, voluntary work
- ✓ Financial needs

Open to students for application in every academic year!

(at the end of the 2nd semester, we will email to students on around May 2023, application deadline will be on early July 2023)

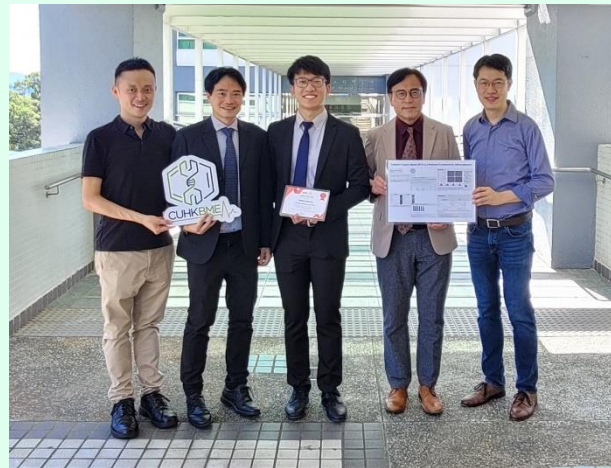
****Please be alerted of our email****

BME UG Students Recent Awards (2022)

SIU Man Hei Connie (BME UG Year 3)
Innovation and Technology Scholarship
(one of the 25 awardees in Hong Kong)



CHOI Hok Yee Tiffany (BME UG Year 2)
Link University Scholarship



TSANG Chung Yin Justin (BME Graduate 2022)
ASM Technology Award 2022 – Gold Award



CHANTAWANNAKUL Jarinyagon
(BME UG Year 2)
CUHK Vice-Chancellor's
Scholarship for Excellence

13th Biomedical Engineering Society

醫濤焯星 Asteria

✉ bmeasteria@gmail.com

📷 cuhk_asteria



| Member | | Position |
|--------------------------|-----|---|
| LAM Yim Pan (Ben) | 林焯斌 | President |
| MOK Nga Sze (Alice) | 莫雅詩 | Internal Vice President |
| CHUNG Yiu Yin (Yin) | 鍾耀賢 | External Vice President & Chung Chi College Representative |
| CHENG Ching Wang (Alvin) | 鄭政宏 | Secretary & Shaw College Representative |
| MAN Kit Chiu (James) | 萬傑釗 | Financial Secretary |
| CHIONG Yan Lok (Kary) | 張欣樂 | United College Representative & Promotion and Publication Officer |
| XU Ching Laam (Niko) | 徐靖嵐 | Promotion and Publication Officer |
| MA Wing Laam (Karena) | 馬穎嵐 | Promotion and Publication Officer |
| LI Chun Hei (Andrew) | 李晉熙 | New College Representative & Recreation and Sports Officer |
| WONG Sze Hang (Stephen) | 黃思恆 | New Asia College Representative & Welfare Officer |

BME Activities

Alumni Sharing (Feb 2023)



Annual Spring Dinner (Feb 2023)

organized by BME Student Society

