



Faculty of Engineering

THE UNIVERSITY OF HONG KONG

2026



QS WORLD UNIVERSITY RANKINGS 2027

HKU IS RANKED

11TH

GLOBALLY

1ST

IN HONG KONG



A Comprehensive University



Faculty of Engineering
THE UNIVERSITY OF HONG KONG

63

UG Programmes

100

Majors/Minors

160

TPg Programmes

153

RPg Programmes



Architecture



Arts



Business



Dentistry



Education



Engineering



Law



Medicine



Science



Social
Sciences



香港大學
THE UNIVERSITY OF HONG KONG

Student Population

UG

20,143

TPg

20,366

RPg

4,834

Total

45,303

Overseas Exchange Partners



Faculty of Engineering
THE UNIVERSITY OF HONG KONG



421 Exchange Partners
across
49 Countries and Regions





Faculty of Engineering
THE UNIVERSITY OF HONG KONG

02

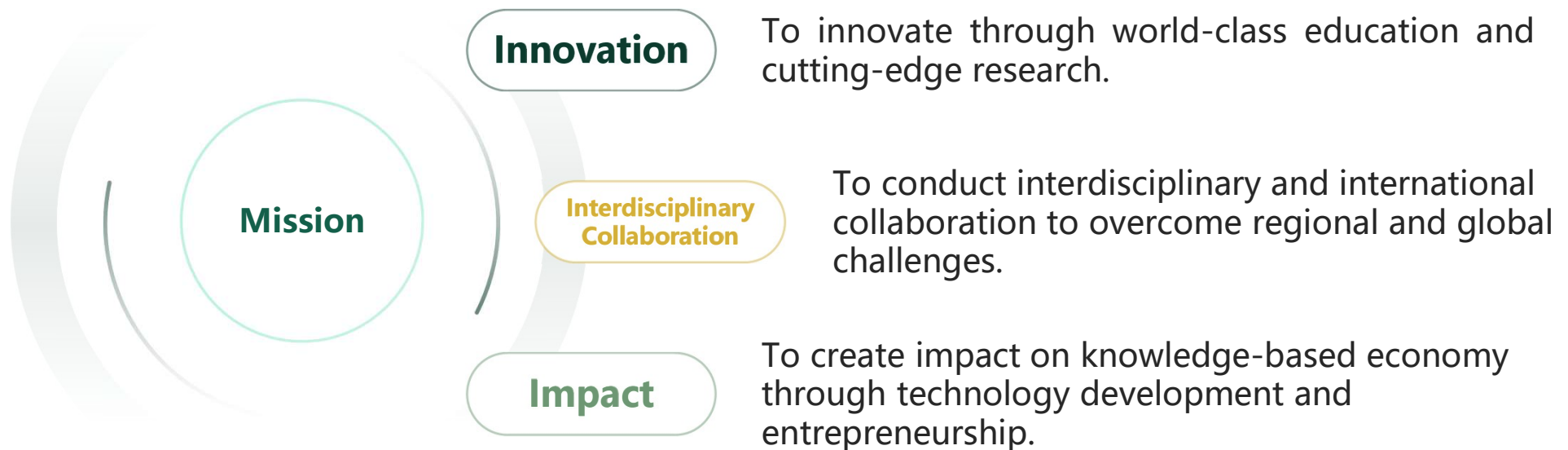
Introduction to HKU Engineering

Faculty overview



Faculty of Engineering
THE UNIVERSITY OF HONG KONG

Vision: To provide solutions to global challenges and nurture leaders in the use of technology for the benefit of mankind.



World-leading Academic Excellence



Faculty of Engineering
THE UNIVERSITY OF HONG KONG



18th

Data Science and
Artificial Intelligence



20th

Civil & Structural
Engineering



27th

Computer Science
and Information
Systems



49th

Mechanical
Engineering



51st

Electrical & Electronic
Engineering

11 Engineering Scholars named
"Highly Cited Researchers" by **Clarivate**

(54 HKU academics in total)



Departments & Schools



Faculty of Engineering
THE UNIVERSITY OF HONG KONG



Civil Engineering



**Electrical &
Computer
Engineering**



**Data & Systems
Engineering**



**Mechanical
Engineering**

NEW



**Materials &
Energy**



**School of Computing &
Data Science**



School of Innovation



**School of Biomedical
Engineering**

Our Leaders



Faculty of Engineering
THE UNIVERSITY OF HONG KONG



Prof. David Srolovitz
Dean of Engineering



Prof. S.C. Chan
Associate Dean (Masters)



Dr. Wilton Fok
Associate Dean
(Student Enrichment)



Prof. Yang Lu
Associate Dean
(Mainland Affairs)



Prof. Kevin Tsia
Associate Dean
(Teaching & Learning - UG)



Prof. S.C. Wong
Associate Dean
(Development & External Relations)



Prof. Lawrence Yeung
Associate Dean (RPg)



Prof. Tong Zhang
Associate Dean (Research)



Prof. C.K. Chui
Assistant Dean
(Teaching & Learning - UG)



Dr. Match Ko
Assistant Dean
(Admissions - UG)
[Sept 1, 2026 onwards]

Department Heads/ School Directors



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Prof. Wei Pan

Head, Civil Engineering



Prof. Ning Xi

Head, Data and
Systems Engineering



Prof. Kaibin Huang

Head, Electrical and Computer
Engineering



Prof. Mingxin Huang

Head, Mechanical Engineering



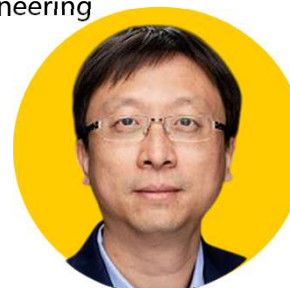
Prof. Chunyi Zhi

Interim Head,
Materials and Energy



Prof. Michael Häusser

Interim Director,
School of Biomedical Engineering



Prof. Yi Ma

Director, School of Computing
and Data Science



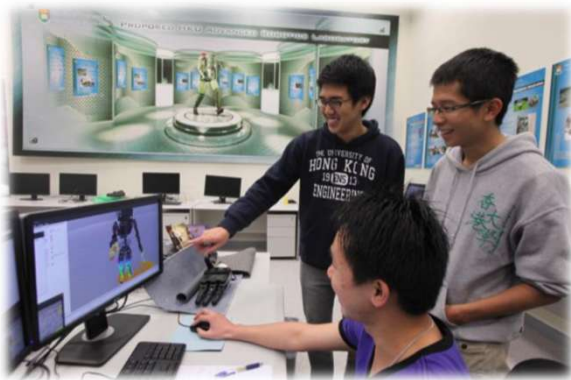
Prof. Hayden So

Director, School of Innovation



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Student Excellence & Diversity



2,007

Undergraduates

2,602

Masters (TPg)

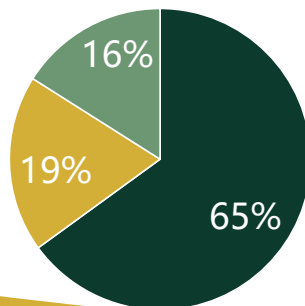
958

PhD

Total students: 5,567

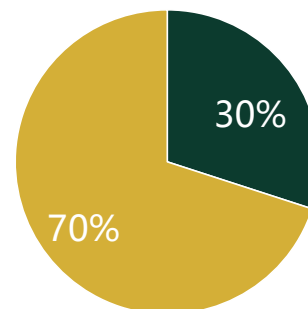
Undergraduate

Local Mainland International



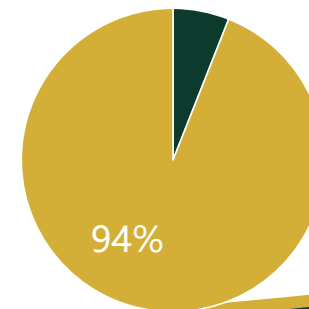
TPg

Local Non Local



PhD

Local Non Local
6%



Diversified Undergraduate Programmes



Faculty of Engineering
THE UNIVERSITY OF HONG KONG

Faculty-based

- 01 Elite Programme
- 02 Bachelor of Engineering + Master of Science in Engineering in *Artificial Intelligence in Engineering*
- 03 Global Engineering and Business Programme

Department-based

- 04 Civil Engineering
- 05 Computer Engineering/Electrical Engineering/
Electronic Engineering
- 06 Data and Systems Engineering
- 07 Mechanical Engineering

HKIE THE HONG KONG
INSTITUTION OF ENGINEERS
香港工程師學會

Accreditation
All BEng programmes received
full accreditation



SCHOOL OF
COMPUTING &
DATA SCIENCE
The University of Hong Kong

- 01 Actuarial Science
- 02 Applied Artificial Intelligence
- 03 Computing and Data Science
(Delta+)
- 04 Computing and Data Science
- 05 Financial Technology
- 06 Statistical Decision Sciences



School of
Innovation
THE UNIVERSITY OF HONG KONG

- 01 Innovation and Technology

Postgraduate Programmes



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School / Department	Programmes
Civil Engineering	• Civil Engineering • Infrastructure Engineering and Management
Data and Systems Engineering	• Industrial Engineering and Logistics Management • Robotics and Intelligent Systems
Electrical and Computer Engineering	• Electrical and Electronic Engineering • Energy Engineering • Integrated Circuits and Electronic Systems
Mechanical Engineering	• Building Services Engineering • Innovation Design and Technology • Low-Altitude Technology • Mechanical Engineering • Microelectronics Science and Technology
School of Computing and Data Science	• Computer Science • Electronic Commerce and Internet Computing • Financial Technology and Data Analytics • Statistics • Data Science



Enlightening Your Dreams To Vibrant Technologies

MSc(Eng) Programmes (2026 Intake)

Our premier Master's degree programmes are led by distinguished faculty, including internationally renowned professors from prestigious universities, as well as leading industry experts and practitioners.

We offer entrance scholarships for qualified full-time and part-time Master's students.

MASTER OF SCIENCE IN ENGINEERING IN

- Building Services Engineering
- Civil Engineering
- Electrical and Electronic Engineering
- Energy Engineering
- Industrial Engineering and Logistics Management
- Infrastructure Engineering and Management
- Innovative Design and Technology
- Integrated Circuits and Electronic Systems
- Low-Altitude Technology
- Mechanical Engineering
- Microelectronics Science and Technology
- Robotics and Intelligent Systems

Application Deadline:
Round 1 (Main): January 2, 2026
Round 2 (Clearing): April 10, 2026 (12:00nn, GMT +8)

Enquiry:
Tel: (852) 3917 2803
Email: engstpg@hku.hk

Apply Now:
<https://portal.hku.hk/tpg-admissions>



MPhil/PhD Programmes

HKU-Cambridge Undergraduate Recruitment Scheme (Engineering)

5

YEARS

Year 1-2: HKU
Year 3-5: Cambridge

4

DEGREES

HKU – BEng
Cambridge – BA, MEng, MA
(Accredited by HKIE and Engineering Council (UK))

1

UNIQUE PROGRAMME

HKU-Cambridge UG Recruitment Scheme

2

TOP UNIVERSITIES

Cambridge: QS #6
HKU: QS #11

The Scheme is currently under review and may be subject to changes in the future.

Any approved changes will be communicated to prospective applicants in due course.

Notwithstanding any adjustments to the programme structure, the Scheme will **remain a dual Bachelor's and Master's degree programme.**

Exchange Opportunities



US

Drexel University
Embry-Riddle Aeronautical University
Princeton University
Tufts University
University of California
University of Illinois at Urbana-Champaign
University of Wisconsin-Madison



France

CentraleSupélec
ECAM LaSalle
Institut National des Sciences Appliquées de Toulouse



Germany

Bremen University of Applied Sciences
Technical University of Darmstadt
Technical University of Munich



UK

King's College London
University College London
University of Cambridge
The University of Edinburgh
University of Nottingham



Australia

Monash University
University of Melbourne
University of New South Wales
University of Queensland
The University of Sydney



Canada

McGill University
Queen's University
The University of British Columbia
University of Calgary
University of Toronto
University of Waterloo



Spain

University of Navarra



Finland

Aalto University



Denmark

Technical University of Denmark



South Korea

Korea Advanced Institute of Science and Technology (KAIST)



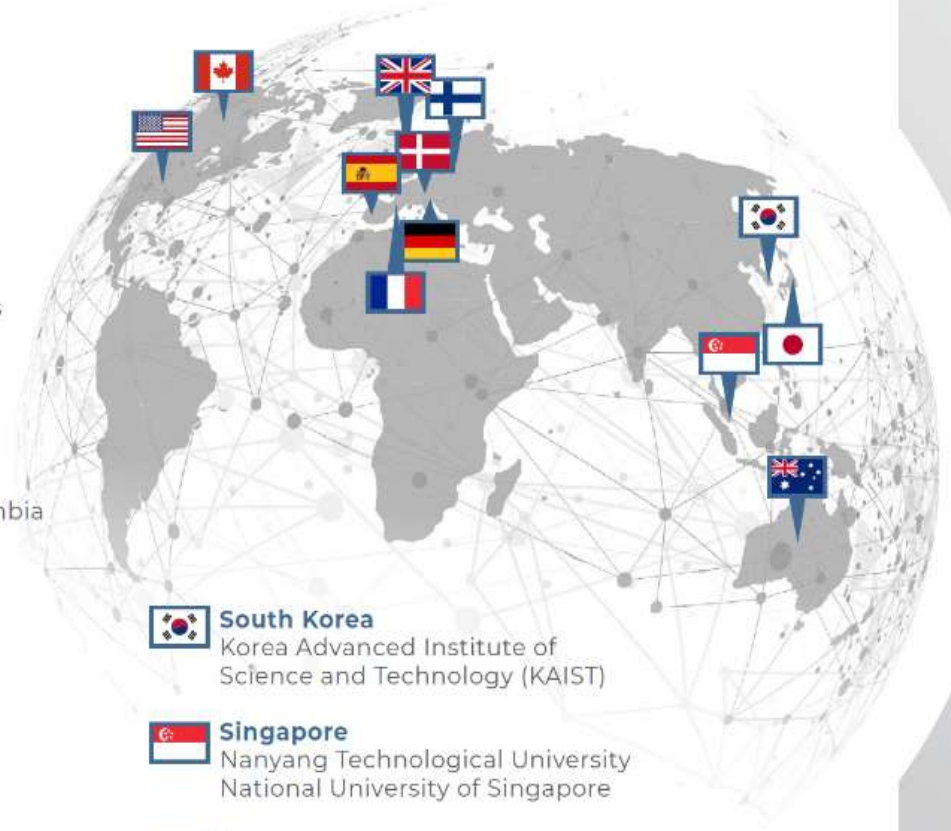
Singapore

Nanyang Technological University
National University of Singapore



Japan

Tohoku University



Exchange partners in China



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- Fudan University
- Harbin Institute of Technology
- Peking University
- Shanghai Jiao Tong University
- Tongji University
- Tsinghua University
- Wuhan University
- Xiamen University
- Xi'an Jiaotong University
- Zhejiang University



Experiential Learning – UG Research Fellowship Programme

Research internships for academically outstanding
undergraduate students during summer breaks



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University of California
San Francisco



UNIVERSITY OF
ILLINOIS
URBANA - CHAMPAIGN



WashU



UC San Diego



UNIVERSITY OF
TORONTO

Experiential Learning – Community Service

Engineering students are encouraged to engage in social service and apply their professional knowledge to provide solutions to real world situations.



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Technical site visit



Summer camp



Project Mingde – Vietnamese
Secondary School Project



Project Mingde – local project to
help the underprivileged

Interdisciplinary Hands-on & Experiential Learning

Equipped with cutting-edge facilities, Innovation Wing promotes interdisciplinary innovation among students.



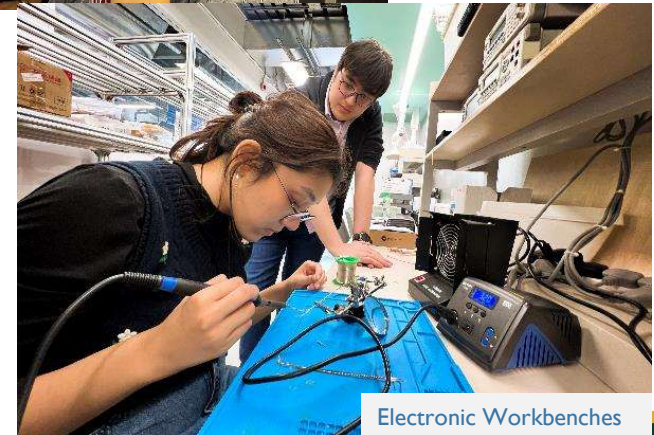
Dream Chamber



Makerspace & assembling area



Machine Workshop



Electronic Workbenches

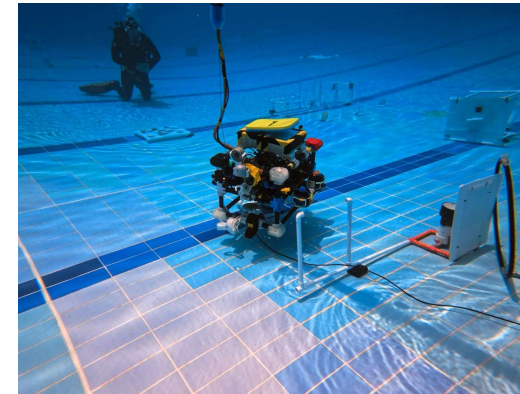
Student Interest Groups of Innovation Wing



HKU Racing



HKU Robocon



Underwater Robotics



Engineering and Archaeology



Design, Build and Fly



UAS

Innovation Academy



Faculty of Engineering
THE UNIVERSITY OF HONG KONG

A hub for attracting and cultivating new generations of talents, not only scholars and researchers but also industry leaders and influencers. It works as an accelerator for inspiration and implementation.

EXPLORE AND LEARN

STUDENT
DEVELOPMENT
PROJECTS



HANDS-ON WORKSHOPS



PITCH NEW TECH IDEAS



ENGINEERING INNO SHOW



STUDY TOURS



Unique Active Learning (12 Credits)



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6 Essentials for Every HKU Engineering Student

- Design & Innovation
- Problem Solving
- Value & Attitude
- Lifelong Learning
- Interdisciplinary Thinking
- Communication

*Learning by **DOING**, Learning by **APPLYING**.*

Subject-first teaching

(ENGG1101 Engineering Challenges – Year 1)



Problem-first learning

(ENGG2202 Engineering Challenges II – Year 2)





AI for Engineers (AILE9018) (3 credits)

for integrating AI into engineering practice

Learning modules:

(Module 1)

**Deep learning for
computer vision**

OR

(Module 2)

**Fundamentals in
NLP, LLM and RAG**

+

(Module 3)

**AI as Professional
Assistant**

A mandatory AI Literacy course designed for Year 2 ENGG students.





International Competitions



National Winner – Air Ring 48 (AR48)
James Dyson Award 2024 Hong Kong



Champion and second runner-up at Robocon 2026
Hong Kong Contest



WeGoALGAE Team selected for the Hult Prize
2025 Incubator Programme

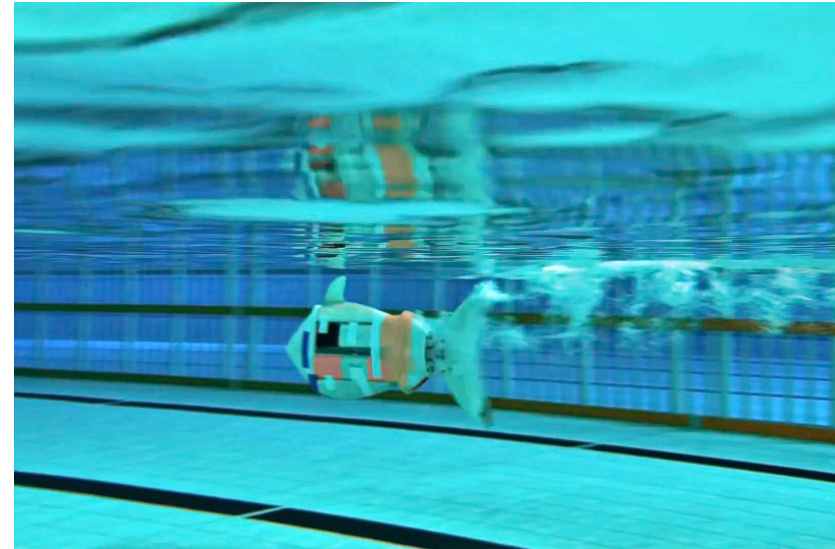
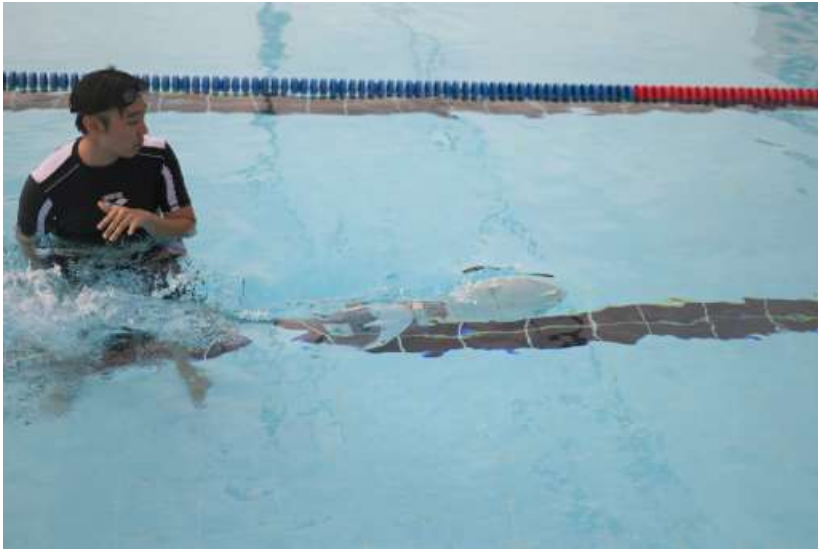


Second place at British Model Flying Association
University and Schools Payload Challenges

Student Achievements



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Student-developed Robotic Fish sets Guinness World Records

HKU Engineering student team developed robotic fish sets World Record for the second time. SNAPP, the robotic fish, currently holds the Guinness World Record for the fastest 50m swim by a robotic fish in 22.92s or at 2.18 m/s (meters per second). The robotic fish was invented by a student-staff team, BREED, led by the Department of Mechanical Engineering and sponsored by the Tam Wing Fan Innovation Wing under HKU's Faculty of Engineering. In January 2020, the team first set the Guinness World Record for the fastest 50m swim by a robotic fish with 26.79s. SNAPP is another breakthrough.

Creating Societal Impact



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The Civil Engineering Department developed groundbreaking sewage surveillance method to track COVID-19 and other pathogens, now integrated into Hong Kong's network for monitoring emerging and re-emerging diseases.



HKU's CIDC and Civil Engineering collaborate with government and industry on Modular Integrated Construction (MIC) to address housing, transportation, supply chain, and sustainability challenges through research and strategy development.



The "Super Steel" team developed groundbreaking stainless steels, including ultra-strong and COVID-19 resistant types, advancing automotive, energy, and societal applications with multiple world records.



In 2024, the Faculty established three Jockey Club STEM Labs—Advanced 3D Circuits, Multimedia & Machine Learning, and Robotics for Soft Materials—to foster STEM leadership and interdisciplinary collaboration.



HKU Engineering partners with Hong Kong Customs to host a regional symposium, uniting Asia-Pacific experts to enhance anti-money laundering strategies through technology and collaboration.



Project Mingde is an experiential programme uniting HKU faculties, students, professionals, and communities to address social gaps in rural areas, benefiting thousands over the past two decades.

Extensive Alumni Network



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The Faculty has groomed around 43,000 professionals and industry leaders in Hong Kong and internationally



Research excellence- Strategic Research Clusters



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Environment

- Water environmental engineering
- Sustainable energy (wireless power, smart grids)
- Wastewater-based epidemiology

Notable Projects:

- ✓ Antibiotic resistome control
- ✓ Sludge refinery for mega-cities
- ✓ Sustainable lighting systems

Health

- Biomechanics & drug delivery
- Biomedical imaging (MRI, ultrasound)
- Computational biomedicine (AI/CRISPR applications)

Impact Areas:

- ✓ COVID-19 transmission research
- ✓ Wearable health sensors
- ✓ AI for geriatric disease diagnosis



Data

- Big data systems/algorithms
- AI for social good (elderly care, policymaking)
- Industry 4.0 analytics (IoT, Digital Twin)

Achievements:

- ✓ Croucher Innovation Award
- ✓ ITF-funded smart manufacturing projects
- ✓ HKJC-funded elderly mobility solutions

Unparalleled Research Strength



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100+ Laboratories and
Research Centres

Civil Engineering



- Centre for Water Technology and Policy
- Croucher Laboratory of Environmental Hydraulics
- Environmental Microbiome Engineering & Biotechnology Laboratory
- MiC Laboratory
- Structural Dynamics Laboratory

Data & Systems Engineering



- Automation for Intelligent Construction Laboratory
- Cyber-Physical System Laboratory
- Human-system interaction & simulation Laboratory
- Human-machine Collaboration Laboratory
- Intelligent Logistics and Transportation Laboratory

Electrical & Electronic Engineering



- AI to Advance Environment and Well-Being Laboratory
- Computer Vision and IoT Laboratory
- JC STEM Lab of Robotics for Soft Materials
- Laboratory of Frontier Research on Optoelectronic Nanomaterials & Technologies
- RGC-TRS Wireless Power Transfer Research Facilities
- Photonic Systems Research Laboratory
- Ultrasound Imaging Research Laboratory

Mechanical Engineering



- Aerodynamics & Acoustic Laboratory
- Air Pollution and Clean Energy Laboratory
- Biomimetic Materials Laboratory
- Interventional Imaging & Robotic Systems Laboratory
- JC STEM Lab of Advanced 3D Integrated Circuit Technology
- Nanofabrication and Nanodevice Laboratory

Our Prize Winners



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Prof. Wei Pan

Medal of Honour by HKSAR 2025



Prof. Kevin Tsia

HK Engineering Science &
Technology Award 2024-25



Prof. Han Wang

HK Engineering Science &
Technology Award 2024-25



Prof. Ning Xi

Gold Medal at 49th
International Exhibition of
Inventions of Geneva



Prof. Nicholas Fang

Brillouin Medal by the
International Phononics Society 2025



Prof. Xiang Zhang

Brillouin Medal by the
International Phononics Society 2025



Prof. David Srolovitz

William Hume-Rothery &
CS Smith Award 2026



Prof. Jiawei Zhou

Croucher Tak Wah Mak
Innovation Award 2026

Scholarly Achievements



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Innovative MiC Research Addressing Social Challenges

The Centre for Innovation in Construction & Infrastructure Development (CICID) and the Department of Civil Engineering have been working with HKSAR Government, industry sectors and professional institutions on Modular Integrated Construction (MiC) Strategy and Research, with an aim to address pressing social issues, e.g. housing. Over the past few years, we have published strategy papers, participated and provided consultation on multiple projects, as well as continued exploring to promote MiC application in other areas, including transportation, supply chain and sustainable development etc.

Scholarly Achievements



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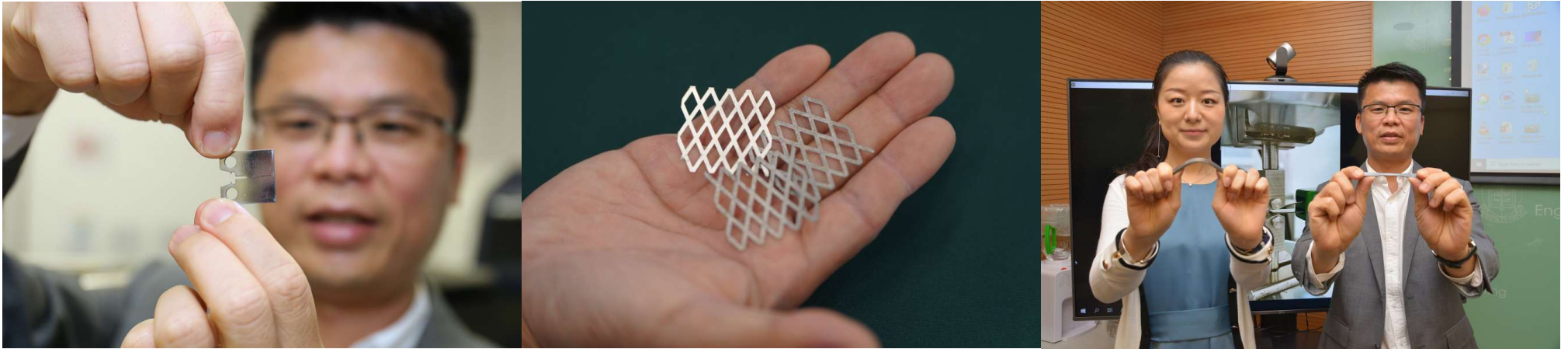
Groundbreaking Sewage Surveillance Method Vital in Combating the COVID-19 Pandemic

Department of Civil Engineering developed an innovative approach that not only tracked and informed the public of the risks associated with COVID-19 virus but also paved the way for controlling other pathogens, such as the influenza virus and m-pox virus. This groundbreaking sewage surveillance method, crucial in combating the pandemic, has now evolved to be incorporated into an established network for monitoring the emergence and re-emergence of pathogens in the community in Hong Kong.

Scholarly Achievements



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Disruptive “Super Steel” Project Setting World Records

Over the past decade, the “Super Steel” project team under the Faculty’s Department of Mechanical Engineering has achieved numerous breakthroughs and developed various disruptive stainless steel materials, including ultra-strong and ultra-tough Super Steel in 2017 and 2020 that created two world-records for strength-ductility and strength-toughness combinations, anti-COVID-19 stainless steel in 2021, and stainless steel for hydrogen in 2023, contributing to the development of automobile manufacturing, energy production and social well-being at large.



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Thank you!


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