



香港中文大學  
The Chinese University of Hong Kong



THE  
CHINESE  
UNIVERSITY OF  
HONG  
KONG



# FOREWORD

Welcome to The Chinese University of Hong Kong, a comprehensive research university established in 1963 that has become an internationally renowned centre of excellence in education and research.

CUHK is a multicultural campus that attracts students from Hong Kong and from all around the world. Our holistic whole-person approach to education prepares students for rewarding careers and nurtures them to be civic-minded citizens of the world. In response to the challenges we face in today's interconnected and dynamic world, our academic programmes and pedagogies have undergone many innovative changes over the years, while never losing sight of the humanistic spirit, a guiding principle since our inception.

In addition to our leadership as educators, we have a long tradition of excellence in basic, applied and translational research. Today, our more than 330 research institutes and joint research centres, in partnership with our eight faculties, continue to make ground-breaking advances in science and technology that have put CUHK on the world map. Among these are breakthroughs in fields such as biomedical science and artificial intelligence, many of which have been translated into marketable products.

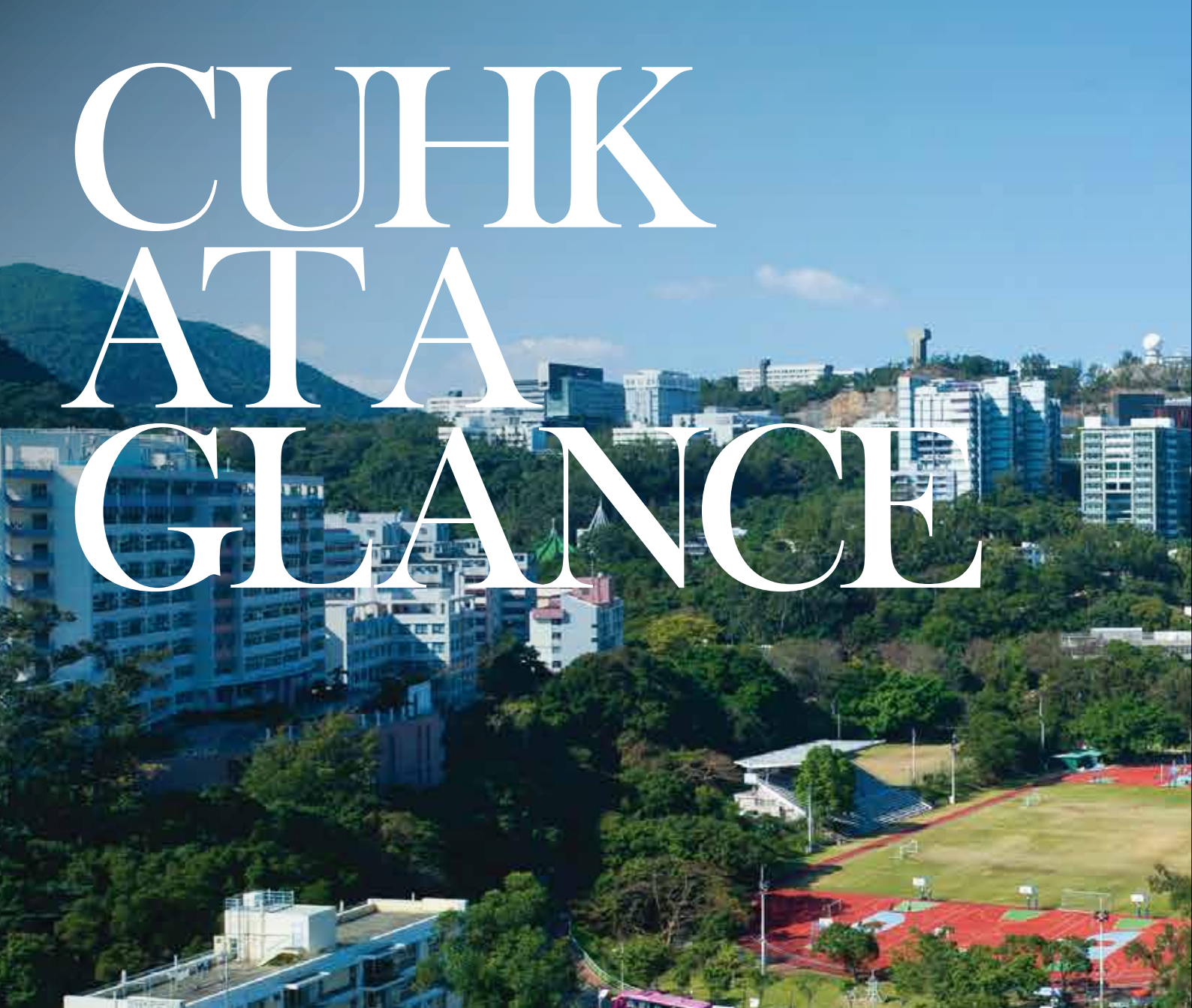
Looking towards the future, we are eager to further strengthen multidisciplinary collaborations and partnerships with academic institutions and industries around the world. We see ample exciting opportunities that build on Hong Kong's strategic position in China, in particular the Greater Bay Area where we can capitalise on our research capabilities and expertise to propel innovation both locally and globally.

This is an exciting time to be a part of CUHK. We look forward to achieving even greater success in education and research and extending our impact to benefit the worldwide community.

**Rocky S. Tuan**  
Vice-Chancellor and President



# CUHK ATA GLANCE



## A Focus on Student Development

CUHK is the only university in Hong Kong that offers a collegiate system, with a wide range of non-formal learning opportunities that complement formal curricula.

The nine colleges of the University are congenial communities with their own hostels, dining halls and other facilities. They are designed to help students develop interpersonal skills and cultural sensitivities, while building their confidence and sense of social responsibility. Providing pastoral care and whole-person education, each college is a closely-knit community that enables students to reach their full potential.

## Space to Learn and to Grow

CUHK has the largest, greenest and most scenic campus in the city. Designed for sustainability, the 137.3-hectare campus houses contemporary learning facilities as well as a range of cultural, sport, and social amenities together with a teaching hotel and future teaching hospital. The campus is conveniently connected to the MTR system and all parts of the city.

## The Chinese University of Hong Kong

is a highly esteemed, forward-looking comprehensive research university, recognised for excellence both regionally and globally. Founded in 1963, it is the second oldest university in Hong Kong.

What sets CUHK apart are its deep roots in Chinese culture, its emphasis on bilingualism and multiculturalism, and a unique college system. As a university with a worldwide footprint, CUHK teachers and students hail from across the globe with a network of over 200,000 alumni. The University's founding philosophy is to combine tradition with modernity and to bring together China and the West.

## A Teaching Facility for the Future

The University is currently building a non-profit private teaching hospital, the CUHK Medical Centre. Located on the campus, the Centre has a social mission of bridging the service gaps between private and public healthcare in Hong Kong. It aims to bring pioneering healthcare solutions to the city and deliver integrated and holistic care to patients.

Scheduled to open for service in 2020, the Centre will offer high-quality, patient-centred healthcare services at transparent and affordable package prices. The hospital is designed to accommodate 600 beds and provide a full range of medical services. It will also serve as a base for clinical research, healthcare education and professional training.





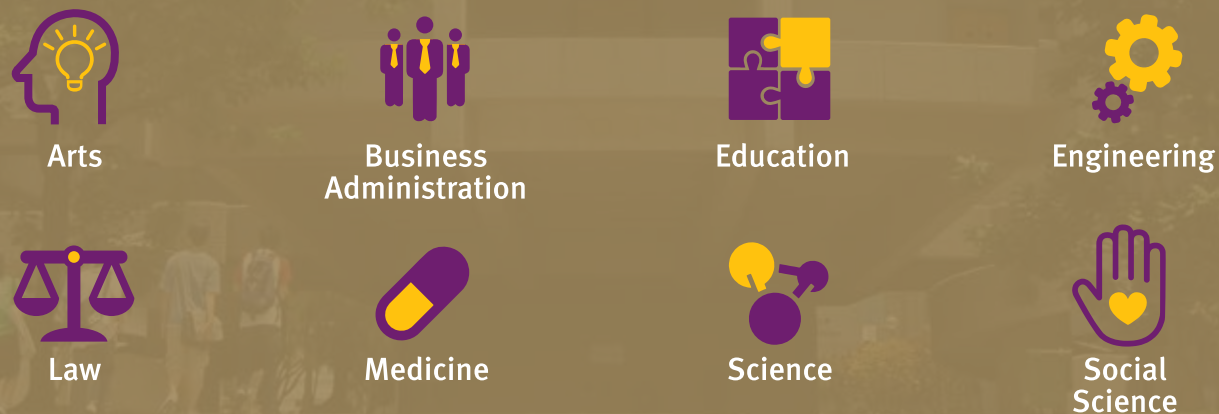
## Facts and Figures



## Colleges

Chung Chi College	New Asia College	United College
Shaw College	Morningside College	S.H. Ho College
C.W. Chu College	Wu Yee Sun College	Lee Woo Sing College

## Faculties



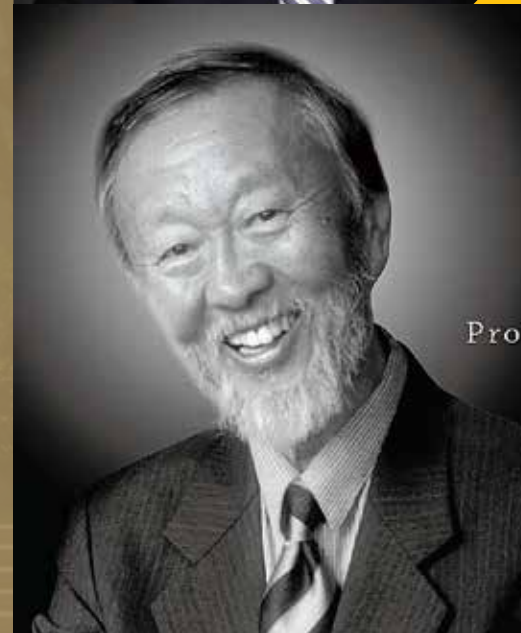
## World-class Scholars

The University boasts a galaxy of distinguished scholars and researchers who are highly regarded authorities in various specialties. They include:



## Distinguished Professors-at-Large

1. Prof. Chen-ning Yang, Nobel Laureate in Physics
2. Prof. Shing-tung Yau, Fields Medallist
3. Prof. Andrew Yao, Turing Award Winner
4. Prof. Hsien-yung Pai, Renowned Writer



IN MEMORY OF  
Professor Sir Charles Kao  
1933 - 2018

## Professor Sir Charles K. Kao

Professor Sir Charles K. Kao was the third Vice-Chancellor of CUHK from 1987-1996. Known as the "Father of Fibre Optics", Prof. Kao was awarded the 2009 Nobel Prize in Physics for his ground-breaking accomplishments in the area of fibre optics which brought forth the development of the internet and opened a new page in the history of telecommunications.



# EDUCATION

## A Leader in Higher Education

CUHK offers a wide range of academic programmes leading to bachelor's, master's and PhD degrees through our eight faculties and a graduate school, including one of only two medical schools in Hong Kong.

We nurture students to be global leaders capable of making lifelong contributions to society. Students benefit from a curriculum that is characterised by bilingualism, multiculturalism and a discipline speciality. It is complemented by a general education programme of broad-based relevance, which has been a prominent feature of our undergraduate education since the early days of the University.

Given our geographical location, traditions and ties, CUHK enjoys special advantages in the study of Chinese culture, society and business. Different specialties in engineering and science command world-leading positions, while our business, law and medical schools are highly regarded for their professional training and seminal research.

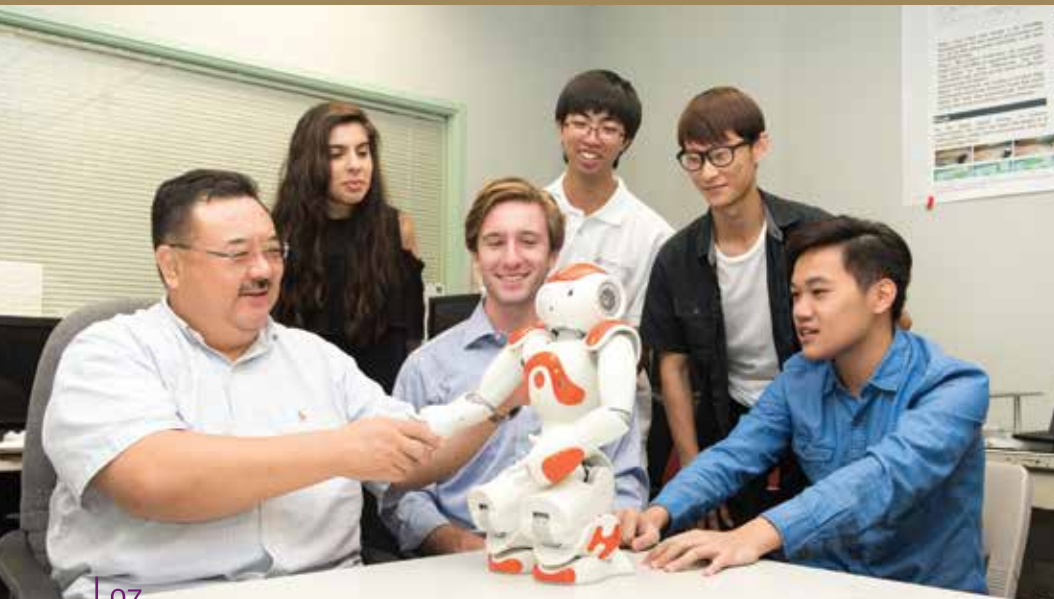
We offer undergraduate programmes centred on a four-year credit-based curriculum, as well as various postgraduate programmes that are widely recognised throughout the world. In partnership with world-renowned universities, we also offer dual degrees and joint teaching programmes in business, law, medicine and the social sciences that prepare our students for global careers.

## Teaching of the Highest Quality

CUHK's high standard of teaching and learning has been commended in quality audits carried out by Hong Kong's University Grants Committee (UGC).

Our general education programme receives accolades locally and internationally. In 2015, we became the first institution outside the US to receive the Exemplary Program Award for Improving General Education by the Association for General and Liberal Studies. We were further honoured with the UGC Teaching Award in 2016, in recognition of the excellent design and implementation of our General Education Foundation Programme.

Taking pride in the quality of education we offer, we are committed to continuous improvement in order to provide the best possible learning experience for our students.



## Student Awards and Accolades

1. Thirty-two CUHK students representing Hong Kong took part in the 2018 Asian Games in Jakarta, Indonesia. They won a total of nine medals, including one gold, two silvers and six bronzes.
2. A genetic engineering student team won the gold medal at the international Genetically Engineered Machine (iGEM) 2017 Giant Jamboree for developing a novel rapid test for an influenza subtype.
3. A team of business students claimed the championship of the KPMG International Case Competition 2017, defeating 22 other teams from across the world.

## International Education Programmes

### Dual LLB-JD Degree Programme

CUHK and King's College London offer a unique dual LLB-JD degree programme that gives students the rare opportunity to study at two world-class law schools and obtain qualifications in both England and Wales and Hong Kong. With the combined expertise of the two universities, the programme fulfils the growing need for high quality legal talent in the world's leading financial centres.

### Global Learning Opportunities in Business Education (GLOBE) Programme

Our Business School is a pioneer in business education in Hong Kong. Its highly competitive GLOBE Programme offers an internationally-oriented curriculum and unique tri-continental learning experience in collaboration with the Copenhagen Business School in Denmark and The University of North Carolina at Chapel Hill in the US.

## Graduates and Alumni Network

Our graduates are often readily accepted by prestigious overseas institutions of their choice for further degree studies. They are in great demand among local employers and multinational companies, and 80% of them are able to secure employment within the first year of their graduation. CUHK graduates also consistently receive high ratings in government and private employer surveys.

A global network of over 200,000 CUHK alumni flourishes in all professions and sectors, from finance and IT to education and the civil service. These alumni contribute to the University by providing mentorship, career guidance and even early career launches.







# STUDENT EXPERIENCE

## Where Students Soar

CUHK is a world-class university with a global outlook. It offers a unique opportunity to excel in a stimulating intellectual environment alongside a cosmopolitan group of students in one of the world's most dynamic cities.

The student experience is at the heart of the CUHK education. We promote whole-person education and assist students to develop their full potential through artistic, sports, leadership and community service activities outside the classroom. We foster students' holistic development through social and civic engagement, enhancing their personal growth and contributing to developing a better world. To help students soar in their chosen fields, we also provide various enrichment programmes that strengthen their interpersonal, problem-solving and leadership skills.

As Hong Kong plays a strategic role in the national Greater Bay Area initiative, CUHK students are especially well prepared to take up career opportunities in mainland China.

## A Rich Multicultural Experience

Our home in Hong Kong, Asia's World City, offers a truly international experience in an environment where students from more than 60 countries live and study together on a culturally-integrated campus.

Full scholarships covering tuition and living expenses are offered to attract talent from within the region and around the world.

CUHK is a regional pioneer in international education. Since establishing our first student exchange partnership with the University of California system in 1965, we have accumulated over five decades of international education experience.

CUHK broadens the student learning experience by providing abundant opportunities to undertake an exchange for periods ranging from a few weeks to a term or a year at 280 world-renowned partner institutions in over 30 countries and regions. Every year, some 6,500 opportunities are offered to students to undertake an exchange or join experiential learning programmes such as research trips, field visits, internships, and service learning and cultural exposure programmes outside Hong Kong.

At the same time, over 2,500 visiting students come to CUHK annually, creating a melting pot of cultures. Through various activities and programmes, students are brought together from different ethnic, cultural, socio-economic, and linguistic backgrounds.

The diverse student experience at CUHK, combined with excellence in teaching and a multicultural atmosphere, produces graduates who are future global leaders with the drive and ability to make lifelong contributions to society.

## Our International Students

### Pavel Ustyantsev

Born and raised in Kazakhstan, Pavel hopes to develop a global outlook by studying in Hong Kong's culturally diverse environment. He joined the CUHK Summer Institute, an experience that prompted him to pursue studies in a different culture. He plans to major in financial technology so that he can introduce technological innovation to the financial services industry of Kazakhstan or Russia after graduation.



### Chananchida Choochua

Chananchida dreamed of studying overseas since her childhood. As a top student in Thailand, she received the Hong Kong Scholarship for Belt and Road Students (Thailand) by the Hong Kong Government and a University Admission Scholarship by CUHK to study business in Hong Kong. She has been sharing her experiences with secondary students in Thailand through social media to help them explore the possibility of studying abroad.



## Our Exchange Students

### Miguel Cibien

The two semesters of exchange that I spent at CUHK were intense and beautiful. I instantly fell in love with the campus, and since then there has not been one evening that I have not been glad to recall its peacefulness after a whole day in the hectic city. In the midst of the dazzling skyscrapers of Hong Kong, CUHK was my perfect hideaway from which to dive deep in this great city. I truly call it home.



### Li Cong Chua

I received support from the Australia Endeavour Cheung Kong Scholarship Programme for my exchange in Queensland. I gained a better understanding of my own identity by exposing myself to a culturally diverse environment, where I interacted with people from different backgrounds and beliefs. My communication and interpersonal skills have been strengthened, which will be essential for my future career development.





# RESEARCH EXCELLENCE



## World-class Research at CUHK

CUHK is committed to conducting research of the highest international standard, including both basic research in a broad range of subject areas and applied research of social and industrial relevance. This is in line with our five-year vision, which is to be recognised for developing cutting-edge research that has a positive global impact and makes significant contributions to society.

Among our most notable research achievements are the advances we have made in liquid biopsy in prenatal testing and early cancer detection, biotechnological improvements of soybean, molecular analysis for cancer and metabolic disease detection and treatment, drug development for rare neurodegenerative diseases, network coding theory that has revolutionised data transmission and network applications, and artificial intelligence and robotics for innovative technologies in biomedical and smart city applications.

With the support of a wide array of research institutes and centres, CUHK has long promoted interdisciplinary research excellence on a local, national and international level. We also encourage international research collaborations and have established a number of joint research units in partnership with institutions for higher education and research that are helping to advance knowledge in a variety of subject areas and addressing some of the world's challenges.

Evidence of the strength, variety and impact of our research can be seen in the establishment of five State Key Laboratories entrusted by the Ministry of Science and Technology of China, our eight Areas of Excellence research projects supported by the Hong Kong University Grants Committee, and our many collaborations with eminent research institutions in mainland China and overseas.

### Areas of Excellence

Centre for Genomic Studies on Plant-Environment Interaction for Sustainable Agriculture and Food Security

Centre for Organelle Biogenesis and Function

Centre for Plant and Agricultural Biotechnology

Centre for Research into Circulating Fetal Nucleic Acids

Chinese Medicine Research and Further Development

Information Technology

Institute of Network Coding

The Historical Anthropology of Chinese Society

### State Key Laboratories

State Key Laboratory of Agrobiotechnology

State Key Laboratory of Digestive Disease

State Key Laboratory of Research on Bioactivities and Clinical Applications of Medicinal Plants

State Key Laboratory of Synthetic Chemistry (Partnership with The University of Hong Kong)

State Key Laboratory of Translational Oncology

### Publications of Note

The high quality of our research is reflected in the many papers published in prestigious international journals. They include two studies among the 10 most Notable Articles of 2017 in *The New England Journal of Medicine*, a multinational study that has transformed the practice of lung cancer treatment, and a landmark study on DNA analysis for early screening of nasopharyngeal cancer.







## Strategic Research Areas

Based on the assessment of our world-leading research excellence, we have identified four major research areas in the University's Strategic Plan 2016-20 that will address some of the most pressing issues facing humankind as our research priorities. These areas incorporate perspectives from the humanities and social science, with science and technology, to provide a comprehensive multidimensional approach to address multifaceted human and societal concerns.



With China's emergence on the international economic, political and cultural stage, CUHK has been building on its strong foundation in China Studies to become an essential source of understanding for all things Chinese.

We have taken an interdisciplinary approach across faculties and collaborate globally, particularly with countries along the Belt and Road, to examine China's global developments in trade, economics, finance, logistics and technological infrastructure under the Global China Research Programme. We are also developing a geographic information system database of social, economic, political, and other indicators in China. Some subjects of study include the country's labour market, the impact of the one-child policy, NGOs in China, and migrant populations.

### Related Research Centres

Centre for China Studies
Centre for Chinese Classical Learning
Centre for Chinese Media and Comparative Communication Research
Hong Kong Institute of Asia-Pacific Studies
Institute of Chinese Studies
Universities Service Centre for China Studies

## Chinese History

Prof. David Faure, a renowned expert on China's economic and business history, leads the first ever humanities research project to have been awarded under the prestigious Hong Kong Government-funded Areas of Excellence scheme. The project explores Chinese history stretching from the Song Dynasty to World War II, studying 15 areas of rural China to promote a greater understanding of the country's history and society. Prof. Faure's work encourages understanding of China in the past in order to shed light on its future.







## Tissue Engineering and Regenerative Medicine

The recently established Institute for Tissue Engineering and Regenerative Medicine (ITERM) integrates multiple disciplines in biomedical sciences, engineering, and clinical medicine for the development of neuromusculoskeletal tissue engineering and regenerative medicine. Prof. Rocky S. Tuan's work on stem cell aims to discover the mechanisms that regulate their regenerative ability to repair and restore function to tissues that have been compromised as a result of injury, trauma, disease or ageing. He engineered the first three dimensional joint-on-a-chip, called the "microJoint", to replicate a human joint using a microbioreactor platform and was elected fellows of the National Academy of Inventors and the China Association of Inventions for his ground-breaking work.



## Translational Biomedicine

With the advances made in biomedicine over the past two decades, CUHK has been at the forefront of this movement with our pioneering DNA research. The development of innovative technologies has also led to the design and manufacture of robotics and nano-scale medical devices that give us the ability to improve standards of care and detection of disease.

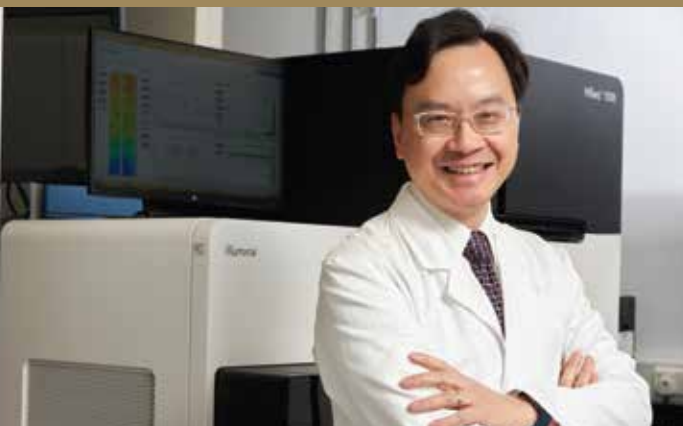
Our teams are engaged in cutting-edge research in stem cell biology and regenerative medicine, as well as brain and mind research that applies genetic and genomic techniques to study behaviour and language acquisition. Breakthroughs in understanding the mechanisms of rare neurodegenerative diseases and the related drug development are also under the spotlight in both the scientific and industrial community. We believe that extending our focus on the use of biomedical research to enhance human life and integrate natural sciences and humanities will add to our collective knowledge and open up new horizons of scientific discovery. We will continue to push forward with basic, translational and clinical research projects and launch new ambitious research initiatives in biomedicine.

### Related Research Centres

- Brain and Mind Institute
- Hong Kong Institute of Integrative Medicine
- Institute of Digestive Disease
- Institute for Tissue Engineering and Regenerative Medicine
- Li Ka Shing Institute of Health Sciences
- Lui Che Woo Institute of Innovative Medicine

## Prenatal Diagnosis

Regarded as one of the most impactful breakthroughs in the world scientific community, Prof. Dennis Lo, Director of the Li Ka Shing Institute of Health Sciences discovered the presence of cell-free fetal DNA in maternal plasma and pioneered a non-invasive DNA blood test for Down syndrome that has benefited millions of women globally. The work provides a foundation for non-invasive prenatal tests for multiple genetic diseases. Prof. Lo is also pushing forward the use of a similar approach for screening of early cancers. Prof. Lo's work has brought him numerous honours including the King Faisal International Prize in Medicine in 2014 and the Future Science Prize in 2016.



## Gastrointestinal Cancer Diagnostics

While Gastrointestinal (GI) cancers account for 40% of overall malignancies in Chinese, the traditional biomarkers for GI cancer diagnosis are not very reliable. Devoted to evaluating molecular alterations, Prof. Joseph Sung and Prof. Jun Yu of the Institute of Digestive Disease have identified new biomarkers for early screening and prognostic predictions of GI cancers, allowing early treatment and reducing cancer mortality. In collaboration with biotechnology companies, non-invasive diagnostic kits for gastric cancer and colorectal cancer have been developed for clinical use.

## Novel Therapeutics for Rare Neurodegeneration

Led by Prof. H.Y. Edwin Chan from the School of Life Sciences, our pioneering research in the development of novel peptidyl and small molecule inhibitors has opened up new horizons in finding cure for rare neurodegenerative diseases which are currently incurable, including Huntington's Disease, Spinocerebellar Ataxia, and Amyotrophic Lateral Sclerosis.







## Information and Automation Technology

Information technology makes use of multidisciplinary connections to advance human capabilities and improve communication systems. With our world-leading strengths in network coding, multimedia processing and communications technology, we are playing a prominent role in the advancement of global communication systems and networks. Our work has the potential to uncover new opportunities in information technology that make a positive impact on research in scientific, educational, policy, and commercial fields. Alongside our pioneering work in network coding, we engage in cutting-edge research in robotics, in line with the increasing use of artificial intelligence and robotics in different areas of human activity, intelligent reasoning and cognition systems, as well as big data and e-learning.

### Related Research Centres

- Chow Yuk Ho Technology Centre for Innovative Medicine
- CUHK T Stone Robotics Institute
- Institute of Network Coding
- Institute of Optical Science and Technology
- Shun Hing Institute of Advanced Engineering
- Stanley Ho Big Data Decision Analytics Research Centre

## Network Coding

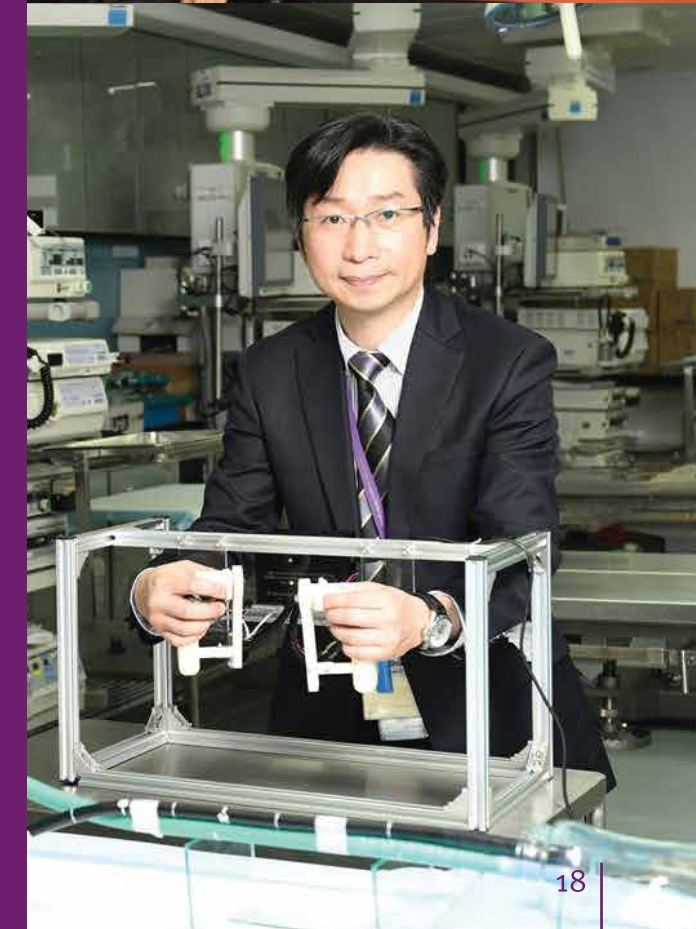
A forerunner in telecommunications, the Institute of Network Coding headed by Prof. Raymond Yeung made major breakthroughs in information science resulting in network communications that is more efficient, reliable and secure. This revolutionary research on network coding has far-reaching impact not only on wireless communications but also in the aerospace industry. The technology has resulted in patents from a number of different countries and the research team is now working towards its future applications for satellite communications, the Internet of Things, wireless sensor/mesh networks, and smart lampposts.

## AI-assisted Cancer Diagnosis

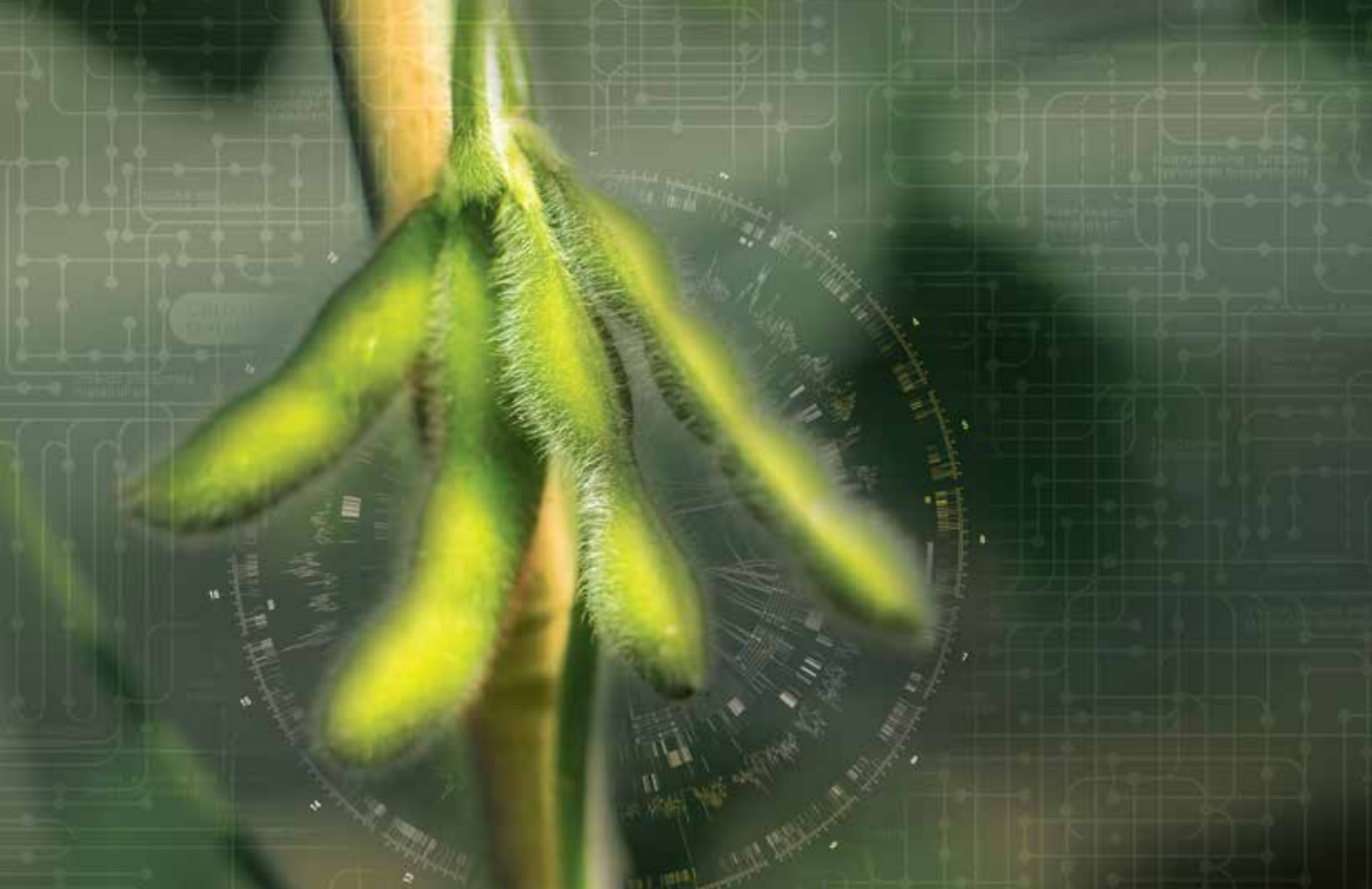
At the forefront of international medical technology, Prof. Pheng-Ann Heng of the Department of Computer Science and Engineering has developed an innovative artificial intelligence system using an automated medical image processing technology, through deep learning, in offering efficient diagnosis using CT scan and histopathological images. The system has been validated on two of Hong Kong's most prevalent cancers, lung cancer and breast cancer, with high accuracies. With the boost of efficiency in clinical diagnosis, the cutting-edge technology is expected to be widely adopted by the medical sector in the near future.

## Medical Robotics

CUHK is committed to advancing medical robotics. A number of research centres including the Chow Yuk Ho Technology Centre for Innovative Medicine and T Stone Robotics Institute are conducting research to apply and advance robotic applications to medicine by working in concert with experts in engineering, medicine and social science. Prof. Philip Chiu whose expertise is on robotic minimally invasive and endoscopic surgery has invented a novel flexible robotic endoscopy system for the performance of endoscopic submucosal dissection. His invention has allowed surgeons to perform precise dissection and reduce complication and cancer recurrence.







## Sustainable and Climate-Smart Agriculture

Global agriculture has long been plagued by the lack of arable land, depletion of top soil and scarcity of water resources. Led by Prof. Hon-Ming Lam, the Hong Kong Government-funded Areas of Excellence Centre for Genomic Studies on Plant-Environment Interaction for Sustainable Agriculture and Food Security is committed to developing new technologies to strike a better balance between sustainable agriculture and food security. Further to previous successful decoding of the genomes of 31 wild and cultivated soybean and cloning of a major salt tolerance gene from wild soybeans using genomic approach, Prof. Lam has extended his research journey from laboratory to field by collaborating with scientists in Gansu Province to develop and release three new stress tolerance soybean cultivars that are now used by Gansu farmers on marginal lands.



## Environment and Sustainability

Our planet faces tremendous social, economic and environmental challenges. At CUHK, we aspire to provide global thought leadership on meeting these major challenges through a proactive and expansive interdisciplinary and transdisciplinary research agenda.

How can we advance science and technology to make the future of our planet more sustainable? How can we re-engineer our economic and energy structures to improve energy efficiency and enable the shift to renewable low-carbon energy? How can we create a more liveable and equitable environment and communities for residents of every age in all social strata? How can we manage global warming, natural disasters and assure food security? Working closely with our knowledge partners in academia, government and the private sector, we have been seeking and offering innovative solutions to these questions, with the goal of promoting the health and well-being of our planet and people.

### Related Research Centres

Centre for Genomic Studies on Plant-Environment Interaction for Sustainable Agriculture and Food Security

CUHK Jockey Club Institute of Ageing

Institute of Environment, Energy and Sustainability

Institute of Future Cities

Institute of Plant Molecular Biology and Agricultural Biotechnology



## Sustainable Architecture

As climate change becomes an increasingly pressing concern, so too does the need to create sustainable buildings and urban environment that offer minimal environmental impact and maximum human comfort. Specialised in green building and sustainable city design, Prof. Edward Ng from the School of Architecture has developed a number of urban design guidelines including Urban Climatic Maps for the governments and agencies in Hong Kong, Singapore and a number of Chinese cities to improve urban living. He is also dedicated to improving the livelihood and environment of villages in remote rural China. His project on rebuilding earthquake resistant houses in Yunnan using sustainable and low embodied energy natural materials has earned him the World Building of the Year Award at the 2017 World Architecture Festival, which is also known as “the Oscars of architecture”.





# Knowledge Transfer with Societal Impact

CUHK encourages interdisciplinary interactions and industrial partnerships with the aim of promoting knowledge transfer and creating positive economic and social impacts. In recognition of our achievements in advancing science, inventing new technologies and powering new markets and industries, CUHK has been ranked the most innovative university in Hong Kong for three years in a row in Reuters' ranking of Asia Pacific's Most Innovative Universities since 2016.

Promoting an entrepreneurial environment on our campus is conducive to innovation and creativity. In 2017, we launched the territory's first university-wide Minor Programme in Entrepreneurship and Innovation, which is open to all undergraduate students. In addition to the CUHK Pre-Incubation Centre on our Hong Kong campus, we also established an Entrepreneurship and Innovation Hub in Shenzhen that provides affordable space, mentorship and industry/market access for CUHK-enabled start-ups to expand in China.



## Deaf Education for an Inclusive Society

Prof. Gladys Tang, an expert in sign linguistics and language acquisition, has demonstrated that optimal learning for deaf children can be achieved by acquiring sign language and spoken language simultaneously. This finding dispels the misconception that acquiring sign language before spoken language is detrimental to spoken language development in deaf children. She also set up SLCO Community Resources to promote sign bilingualism for an inclusive society by extending this concept to a wider public. It is the first Hong Kong-based social enterprise to be recognised by Social Venture Challenge Asia, one of the most prestigious competitions for social enterprises in the region.



## Robot-based Education for Autistic Children

Children with autism spectrum disorders (ASD) tend to develop social communication skills later than other children, delaying their integration into society. Previous studies have shown that individuals with ASDs tend to be less responsive to humans as compared to objects. A pioneer in incorporating technology into special needs education, Prof. Catherine So designed and implemented an innovative robot-based programme for 3- to 18-year-olds with autism. In a joint effort with NEC Hong Kong, the award-winning robot-based programme will be offered in mainstream schools, special schools and non-profit organisations to benefit autistic children.



## Prenatal Diagnosis

Known as the "Father of Non-Invasive Prenatal Test", Prof. Dennis Lo pioneers non-invasive DNA blood tests for Down syndrome that are helping millions of pregnant women in the world. This intellectual property portfolio has been licensed to Illumina and Sequenom, and sublicensed to dozens of companies. Prof. Lo and his team have also created three start-up biotechnologies companies to further accelerate the development in the field.



## Artificial Intelligence

Co-founded by Prof. Xiaoou Sean Tang, SenseTime is the world's most highly valued artificial intelligence "unicorn" (start-ups valued at US\$1 billion or more), focusing on computer vision and deep learning technologies. Entrusted by the Ministry of Science and Technology to build an open innovation platform for next-generation AI, the company has developed ground-breaking technologies used in face and image recognition for smart cities, smartphones, finance and robotics. The company raised US\$600 million in funding led by Alibaba in 2018, which set a record for a single round of financing in the AI industry. The current estimated market value of SenseTime is more than US\$4.5 billion.

## Contributing to the Greater Bay Area

The Hong Kong Government is ready to contribute to the development of the Greater Bay Area. This initiative has been designed to build a world-class metropolitan hub in southern China as part of the nation's development blueprint for driving innovation. At CUHK, we are forming relationships with strategic partners in the Greater Bay Area to develop innovation and technology initiatives in fields such as biomedical science and artificial intelligence and to transform ideas into marketable products. With a strong reputation in research and a track record in knowledge transfer, CUHK is well positioned to play a key role in the Greater Bay Area.





# GLOBAL ENGAGEMENTS



## Our Global Footprint

CUHK is a comprehensive research university with a global vision and a mission to combine tradition with modernity, and to bring together China and the West. Internationalisation is integral in our education and research, with a view to strengthening our research capacity, education for students, and impact around the world.

International academic exchange has been at the core of CUHK since our founding. Several overseas ties were in place with our constituent colleges prior to the University's establishment. Our first student exchange programme was established with the University of California system in 1965. Today, CUHK has formal partnerships with over 460 universities and institutions around the world, ranging from teaching and research collaborations to faculty and student exchanges, among many other engagements.

We are an active member of national, regional and international networks of higher education, research and engagement. Through the alliances we form with worldwide centres of excellence, we advance knowledge, develop innovative academic programmes that enrich students' learning experiences, and break new ground in research. The impacts we create across a wide range of disciplines address the many global challenges of today.

CUHK's focus on internationalisation is further reflected in our commitment to building a multicultural environment on campus. Students and teachers hail from countries all around the world, with 25% of our students and 46% of our teachers originating outside Hong Kong.

## Global Partnerships

**Yale-China Association, USA**  
The ties between our New Asia College and Yale-China Association date back to 1954 before the College was amalgamated into CUHK. Collaborative programmes are in place for teaching engagements as well as student cultural exchanges and internships, including Yale-China Fellowship, Yale University-New Asia College Student Exchange Programme and Yale-China Community Service Exchange.

**Hong Kong Chapter of the United Nations' Sustainable Development Solutions Network (SDSN Hong Kong)**  
Co-hosted by CUHK and The Hong Kong Jockey Club Charities Trust, SDSN Hong Kong mobilises knowledge institutions to foster transformative solutions to sustainability issues and pursues the UN's Sustainable Development Goals in Hong Kong.

**University of Exeter, UK**  
ENSURE, the CUHK-University of Exeter Joint Centre for Environmental Sustainability and Resilience embarks on large, impactful interdisciplinary collaborations to tackle emerging issues related to a changing environment and human health and well-being.



**ETH Zurich, Switzerland**  
CUHK works with ETH Zurich to develop healthcare innovation and biomedical engineering, especially nano-robotics through the CUHK-DGIST-ETH Zurich Joint Research Laboratory on Innovative Nanotechnology for Medicine and Healthcare.

**The University of Sydney, Australia**  
ACCLAIM, the Analytic and Clinical Cooperative Laboratory for Integrative Medicine partnership with The University of Sydney provides a platform for scientists and clinicians to share the best of information technology, data analysis, and clinical research for the advancement of evidence-based integrative medicine.

**Utrecht University, The Netherlands**  
Our partnership with Utrecht University is extensive, covering cities and sustainability, neuroscience, and regenerative medicine. Our joint centres include the CUHK-UU Joint Centre for Language, Mind and Brain and CUHK-University Medical Center Utrecht Joint Research Laboratory of Respiratory Virus and Immunobiology.

## Key National, Regional and International Memberships

- Asia-Pacific Association for International Education
- Association of Commonwealth Universities
- Association of Pacific Rim Universities
- China-UK Humanities Alliance for Higher Education
- Guangdong-Hong Kong-Macau University Alliance
- Innovation and Entrepreneurship Education Alliance of China
- Mainland-Hong Kong-Macau Law Education Alliance
- University Alliance of the Silk Road
- Worldwide Universities Network



# BEYOND HONG KONG



## The Chinese University of Hong Kong, Shenzhen

The Chinese University of Hong Kong, Shenzhen [CUHK(SZ)] extends the core educational philosophy and values of the University beyond Hong Kong. It offers bachelor's, master's and PhD degrees through the School of Management and Economics, School of Science and Engineering, School of Humanities and Social Science, and Institute for Data and Decision Analytics. In 2014, CUHK(SZ) admitted its first cohort of students and plans to eventually have a student population of 11,000.

## CUHK Shenzhen Research Institute

CUHK's wholly-owned Shenzhen Research Institute serves as a pivotal base for conducting research, training, and technology transfer on the mainland, particularly in the Pearl River Delta region. The Institute's major research areas include agricultural and plant science, biotechnology, information and communication technology, economics, social science, future cities and innovative engineering.



## Strong National Ties

Beginning with the connections formed by our constituent colleges prior to the establishment of the University, we have had long and deep academic ties with mainland China. These include productive partnerships with leading universities and research organisations, many in key national priority areas. We are equally committed to developing teaching and learning programmes that benefit CUHK students as well as our mainland partners.

We are strengthening our links with mainland China and capitalising on the exciting opportunities arising from national policies such as the Belt and Road initiative and regional development plans such as the Greater Bay Area initiative. We have set up three institutions in Shenzhen to contribute to the educational, scientific and technological advancement of the country.



## Shenzhen Institutes of Advanced Technology

CUHK partnered with the Chinese Academy of Sciences and Shenzhen Municipal Government to establish the Shenzhen Institutes of Advanced Technology (SIAT). SIAT plays a significant role in technology innovation, industry collaboration, and economic development in the region. It focuses on meeting national needs in healthcare and manufacturing in areas such as service robots, electric vehicles, cloud computing, digital cities, nano-medicine, new energy and new materials. SIAT has established partnerships with over 1,000 firms, attracted over RMB 500 million (US\$73 million) of industrial investment and incubated over 700 high-technology companies.



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