

#### A Glance at HKUST 2019-2020

Striding toward its fourth decade, HKUST is embarking on a new road map for innovative approaches to education and research with **Strategic Plan 2021-2028** (https://strategicplan.hkust. edu.hk/). Our strategic objectives have been instrumental in guiding the university development and our response to local and global issues despite the many changes and challenges we faced particularly over 2019-2020. Here is a glance at our key achievements and contributions during these unprecedented times.

## FIGHTING COVID-19 攜手抗疫

HKUST races against time to fight the global challenge with innovation and technology 科大分秒必爭 ,以創新發明及科技抵禦全球危機



Q

#### Detection in 40 <mark>mins</mark> 分鐘快速測試

Portable COVID-19 device to detect virus speedily 快速測試新型冠狀病毒的( 攜式檢測儀面世

### 2020



### **16**+ border control points, private & public premises 邊境口岸、政府及私人處所

Smart Fever Screening Systems deployed across HK borders and different places to

於各口岸及不同地點裝設「智能發燒偵測系 統」,在人群中識別有發燒徵狀的人士

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### 215,105 analyzed sequences 已分析序列

COVIDep (covidep.ust.hk) guiding vaccine development by providing vaccine target recommendations based on analyzed sequences

COVIDep (covidep.ust.hk) 根據序列分 析結果建議疫苗靶點,推動疫苗研發

as of Dec 2020 截至2020年12月

2021



## 14,900+

#### hospitals, universities, elderly homes and public facilities, etc. 醫院、大學、長者院舍及公共設施等

Protecting the city with non-toxic sanitizer killing 99.9% of bacteria and viruses with 90 days of effectiveness

在全港多處噴灑不含毒性、可殺滅99.9%細菌及病毒的消毒塗層,有效期長 達90日,保障市民健康





Delivering food and supplies in locked-down cities of Mainland China to minimize human contact

在內地各封城區運載糧食與日用品,減少人際接



Scan the QR code to get HKUST's latest updates on COVID-19 掃描二維碼了解科大在疫情上的最新資訊

### 香港科技大學 2019-2020年度重點成果

科大即將踏入第四個十年,由此誕生的《策略發展計劃2021-2028》 (https://strategicplan.hkust.edu.hk/)將成為大學未來推動教育與科研創新的發展藍圖。科大的策略目標一直是大學發展的依據,同時引領大學應對全球及本港的種種挑戰, 正如2019-2020年度充滿變化和困難,我們仍無畏無懼、堅守崗位。以下概述科大過去一年的主要成就及對社會的貢獻。

HKUST community cares for students and society 關愛師生 , 惠澤社群

# \$1.7m+

56 students benefitted 名學生受助

Student Hardship Relief Fund assisting students and families financially affected by COVID-19

「學生紓困援助金」協助因疫情而出現財政困難的 學生及其家人

3000

students took part in 81 online programs 學生參與81個網上項目

### 900 students participated in 學生受聘於

40 初創企業

HKUST Internship Network (iNet) providing virtual start-up internship opportunities for students

iNet網上平台為同學提供在初創企業網上實習的機會



Distributed to students and staff during critical shortage in market

在市場供應短缺之際及時向學生及教職員派發口罩

### 7,800+ hand sanitizers 5,000+ masks 口罩

Sharing anti-pandemic supplies with the wider community

與市民及香港不同社群分享抗疫物資



FIGHTING COVID-19 攜手抗疫



### RESEARCH POWER 科研實力

*Our research capabilities boosted by securing 多項撥款提升科研能力* 

\$1.1b external funding (+32% YoY) 校外撥款



**\$1.1b (+32% YoY)** of external funding for **1,469** projects covering Sustainability, Life Science, Al, Robotics, and Public Policy, among others, with **\$197.6m (+16% YoY)** coming from Research Grants Committee.

**科大在年內合共取得 \$11億 (按年+32%)** 校外撥款,共1,469個項目獲得資助,涵蓋可持續發展、生命科學、人工智能、機械 人科技及公共政策等範疇,當中 **\$1.976億(按年+16%)** 來自香港研究資助局。











Research excellence manifested in the high frequency of being cited among academia 引文次數名列前茅 , 彰顯卓越科研成就



# 1 in Asia

Citations per Paper Score in QS Asia University Rankings 2021 《2021 QS亞洲大學排名》論文引徵次數得分





Citations per Faculty Score in QS World University Ranking 2021 《2021 QS世界大學排名》學院論文引徵次數得分

We transfer knowledge and technology to industry 轉移知識 , 與業界共享科技成果

**147** inventions disclosed 項公開發明

cumulative active granted patent applications 項累計在效專利申請及授權



We contribute our expertise to society; the returns generated will be used to support university development

以專長貢獻社會 , 收入助大學持續發展



from **369** consultancy projects including analytical & testing services 369個顧問項目 (包括分析及測試服務) 總值\$600萬

Overall licensing income came to **\$8.9m** with IP licensing worth **\$6.3m** 整體授權收入\$890萬,當中\$630萬為知識產權授權收入

Massive Open Online Courses (MOOCs) licensing worth **\$2.6m** 大規模開放在線課程 (MOOCs) 授權收入\$260萬

Nurturing entrepreneurial talent and new ideas 培育創業人才 , 激發嶄新思維

start-ups at HKSTP founded by HKUST members, participation rate among the highest in the local higher education sector

科大成員於香港科技園成立47家初創企業, 參與率為本地高等教育學府中最高之一

start-ups & spin-off companies incubated by HKUST +14% YoY

育成229家初創及分拆公司·按年+14%

Funding programs offered to aspiring entrepreneurs nurturing start-up businesses: 提供資助計劃,扶持有志者創業

\$50m \$2.4m Entrepreneurship Center Funds \$240萬科大創業中心各項資助

\$5,000萬科大創業基金 https://e-fund.hkust.edu.hk/

**Entrepreneurship Fund (E-Fund)** 



Bridge Gap Fund \$500萬科研實踐基金 https://ttc.ust.hk/

### LEARNING JOURNEY 求學之旅



**580** alumni referred **250+** jobs and internships to **560+** students via HKUST United Program 位校友透過「科大·同心」就業計劃,轉介**250+** 個工作及實習機會予 **560+** 位同學

**3,340** participants engaged in Entrepreneurship Centre seminars and workshops (+6% YoY) 學生參與科大創業中心主辦的講座及工作坊 (按年+6%)

### DIVERSE AND INTERNATIONAL COMMUNITY 人才薈萃

A diverse campus environment consisting of 科大社群兼容並蓄 ,彰顯多元化特色

**25%** non-local student enrolments, highest among UGC-funded institutions<sup>#</sup> 非本地學生百分率高達25%,冠絕教資會院校<sup>#</sup>

6,358 non-local students at undergraduate and postgraduate levels\* (+6% YoY) 非本地本科生及研究生\* (增長6%)



 2019年10月資料
 2019-20 教資會 2019-20報告

*Diversified faculty with 74%+ from places outside Hong Kong* 

科大廣納各地學者 , 74%+ 教員來自香港以外地方



Women's faculty appointments grew with female to male ratio improved from 1:3.11 to 女性教員人數上升 , 女教員與男教員比例從 1:3.11 增至





Full-time Equivalent 全職人員\*



### GROWTH AND COMPETITIVENESS 擴展實力

Advancing academic and research excellence 追求學術及科研卓越







Data Science, Machine Learning 數據科學、機器學習

▼ Brain Science 腦科學



**Geographical Distribution of Global Partnership** 

Ocean Research 海洋研究



**4 new joint research units** with industrial partners taking **lab knowledge to market** covering: robotics, smart manufacturing, and new materials, among others. 夥同業界成立**4個新聯合研究所**,將**實驗室成果推出市場**,如機械人科技、智能製造及新材料



Robotics 機械人科技



Smart Manufacturing 智能製造



New Materials 新材料

Campus development at Clear Water Bay campus 清水灣校園再添新基建

### Global Graduate Tower 賽馬會集賢樓

Global Graduate Tower completed to provide **504 beds for accommodation**. 賽馬會集賢樓於年內竣工,提供 **504 個宿位** 

### Shaw Auditorium 逸夫演藝中心

Shaw Auditorium, the new landmark for arts performance and large-scale events housing up to **1,300 audiences**, is expected to complete in 2021. 逸夫演藝中心預計於2021年落成,此新校園地標為大型藝術表演及活動提供場地,可容納**1,300名觀眾** 





Seizing GBA opportunities with the establishment of HKUST (GZ) 創建港科大 (廣州) ,抓緊大灣區機遇



### **GLOBAL RECOGNITION** 享譽全球



Priding ourselves on academic and research excellence 傲視同儕的學術與科研成就

#### Young University 新進大學排名

World's Top 400 Young Universities, Times Higher Education Young University Rankings 2020 #1 2020《泰晤士報高等教育》全球頂尖400所年輕大學排名榜

**#7** 

World's Top 150 Universities Under 50, QS Top 50 Under 50 2021 2021《QS全球年輕大學排名》世界頂尖 50所年輕大學

#### Global University 全球大學排名

**#77** 

World's Top 1000 Universities, QS World University Rankings 2021 2021《QS 全球大學排名》全球頂尖1000所大學排名榜

World's Top 1500+ Universities, Times Higher Education World University Rankings 2021 #56 2021《泰晤士報高等教育》全球頂尖1500+所大學排名榜

#### Top-ranked Programs 優質課程 馳譽國際

in the world Global EMBA Rankings - Kellogg- HKUST EMBA Program, Financial Times 2020 凱洛格 – 科大EMBA課程 – 2020《金融時報》全球EMBA課程排名 全球 2 in the world QS Global Joint EMBA Rankings - Kellogg-HKUST EMBA Program, QS Global Joint 全球 EMBA Rankings 2020 凱洛格 - 科大EMBA課程 - 2020《QS全球聯合 EMBA排名》

#### World University High-Ranking Subjects 全球排名前列科目

School of Engineering 工學院

Civil and Structural Engineering\* 土木及結構工程,

School of Business Management 商學院

Business and Management Studies \* #16 商業及管理學



Accounting and Finance\* 會計及金融學

Global Ranking of Academic Subjects, Academic Ranking of World Universities 2020 2020《世界大學學術排名》全球頂尖學科排名

Employability 畢業生就業能力

in the world #26 全球

Global University Employability Ranking 2020, Emerging Emerging 2020全球大學就業能力調查及排名

#### Faculty Awards and Recognition 教員成就

Our distinguished faculties and impactful research work were recognized with numerous awards and accolades over the past year . Scan the QR code to view the full list of awards and recognition.

科大的教研團隊在過往一年屢獲殊榮,成績斐然。請掃瞄右面的二維碼,一覽科大學者取得的各項成就。



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Global MBA Rankings # #19 全球工商管理碩士課程 #

\* QS World University Rankings by Subject 2020 2020《QS全球大學分科排名》

# Financial Times 2020 2020《金融時報》全球排名

Engineering and Technology\* 工程及科技

Launched in 2014, the "2020 Sustainability Challenge" concluded its five-year endeavors with an eco-friendlier smart campus and a strong sustainability culture

科大於2014年推出「2020可持續發展挑戰」藍圖 ,積累五年努力 ,實踐環保智慧校園 , 讓可持續發展文化落地生根。





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