

The National University of Singapore (NUS) has nurtured generations of talent since our founding in 1905. Our 17 faculties across three campuses in Singapore and 12 NUS Overseas Colleges around the world provide a thriving environment for our diverse community of 40,000 students to live and learn together, in their pursuit of knowledge.

We pioneer innovative academic programmes, influential research and visionary enterprises to improve lives and contribute to society.

As Singapore's flagship university and among Asia's best, we strive to inspire and innovate, to shape a better future for Asia and the world.

This is **THE**

NUS STORY

2019/20



VISION

a leading global university
shaping the future

MISSION

to educate, inspire
and transform

VALUES

innovation, resilience
excellence, respect, integrity

The National University of Singapore aspires to be a vital community of academics, researchers, staff, students and alumni working together in a spirit of innovation and enterprise for a better world.

Our singular focus on talent will be the cornerstone of a truly great university that is dedicated to quality education, influential research and visionary enterprise, in service of country and society.

PREPARING FOR THE FUTURE

NUS is committed to providing a holistic education to all our students – undergraduates, graduates and adult learners.



NUS' 17 faculties and schools offer multiple educational routes to maximise student potential through wide-ranging curricula. Leading professors in their fields teach rigorous academic programmes that empower critical thinking across disciplines, as well as inculcate an enterprising spirit.



DIGITAL AND BLENDED LEARNING

that leverages the latest technologies integrate face-to-face interaction with online lessons for seamless learning on and off campus.



Rory Gardiner

Students studying in the conducive learning space of NUS School of Design and Environment's SDE4, Singapore's first new-build net-zero energy building. SDE4 was designed as a showcase of innovative solutions in sustainability, which allows for cross ventilation, natural lighting and views to the outdoors.

The NUS Study Trips for Engagement and EnRichment (STEER) programme, for example, familiarises students with the diverse socio-cultural-economic environments of new and fast-evolving regions through a mix of classroom-based learning and experiential site visits. This immersive educational and cultural experience enables our students to gain a fresh perspective on issues beyond Singapore's shores.

Innovative pathways with global exposure – including the NUS Overseas Colleges, student exchange, double/joint and concurrent degree programmes – allow our students to gain first-hand experiences worldwide. Experiential education and deep living-learning interaction are also enabled through pioneering residential colleges on campus.

GLOBAL ALLIANCES

NUS has developed a worldwide network of partner institutions in education and research over the years. Cultivating such collaborations fosters idea interchange in strategic areas by leveraging each other's unique strengths to boost opportunities and mutual advantages.

Member of prominent networks:

- ASEAN University Network
- Asian Universities Alliance
- Association of Pacific Rim Universities
- International Alliance of Research Universities
- Universitas 21
- WEF Global University Leaders Forum



Students on a STEER trip to Borneo gathering water hyacinth to make paper and fertiliser

Our School of Continuing and Lifelong Education (SCALE) brings comprehensive, practical syllabuses to working adults who wish to stay relevant in a fast-changing environment.

SCALE's All-You-Can-Learn model customises training for businesses to upskill and reskill their workforce by tapping NUS' extensive academic curricula and executive programmes. Among the modular and degree courses are business and data analytics,

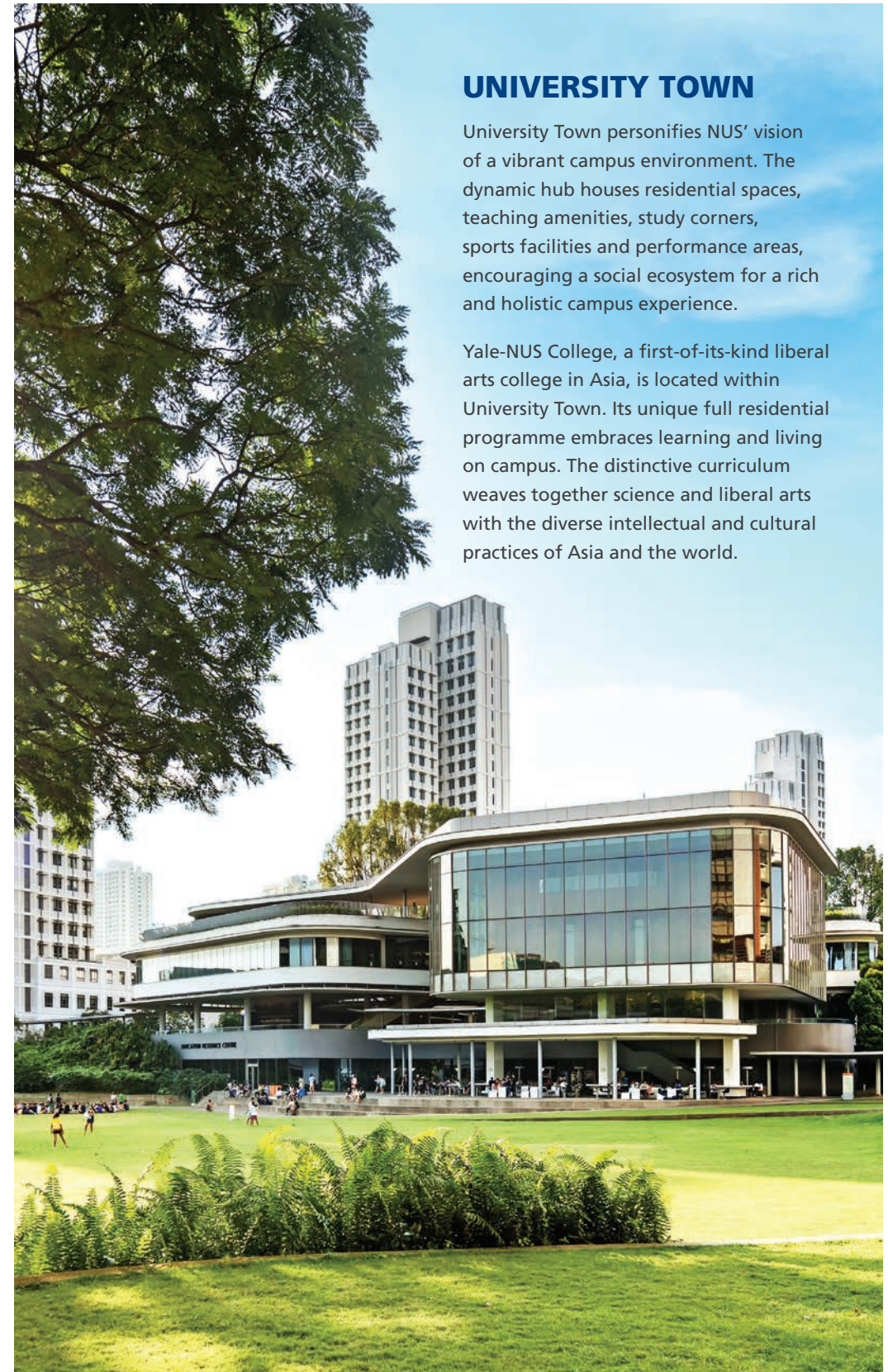
cybersecurity, Internet of Things, artificial intelligence and other specialised subjects.

The NUS Lifelong Learners programme, launched in 2018, grants NUS graduates free access to a full selection of skills-based, industry-relevant courses. The programme ensures their competitiveness in the job market by acquiring capabilities important in the future economy.

UNIVERSITY TOWN

University Town personifies NUS' vision of a vibrant campus environment. The dynamic hub houses residential spaces, teaching amenities, study corners, sports facilities and performance areas, encouraging a social ecosystem for a rich and holistic campus experience.

Yale-NUS College, a first-of-its-kind liberal arts college in Asia, is located within University Town. Its unique full residential programme embraces learning and living on campus. The distinctive curriculum weaves together science and liberal arts with the diverse intellectual and cultural practices of Asia and the world.



CONDUCTING IMPACTFUL RESEARCH

The University's quality multidisciplinary research focuses on creating positive economic and societal impact.



At NUS, we bring together researchers from diverse fields and push boundaries to achieve research excellence in an integrated way. We have built eight integrative research clusters: health innovation; ageing; energy, environmental and urban sustainability; risk management and resilience of financial systems; smart nation; materials research; maritime and offshore research; and Asian studies.

As the world stands on the cusp of the 4th Industrial Revolution, where digital and autonomous technologies redefine the way we live and work, NUS' research strategy dovetails with Singapore's Smart Nation initiative.

NUS' Smart Nation Research Cluster gathers research talents from diverse fields such as engineering, medicine, computing, physical and social sciences to create innovative solutions.

There are more than a dozen interdisciplinary strategic research entities housed in the state-of-the-art innovation4.0 (i4.0) building to strengthen the University's strategic capabilities towards digital transformation. i4.0 is also home to the NUS Graduate Research Innovation Programme that taps graduate students, post-doctoral fellow and research staff to establish up to 250 deep-tech start-ups over five years.



i4.0 building

AGEING

Gain a deeper understanding of ageing at a cellular, individual and societal level, which will help the formulation and execution of policies on ageing in Singapore and Asia

ASIAN STUDIES

Develop special expertise, insights and connections relating to key issues of critical importance to Asia

BIOMEDICAL SCIENCE & TRANSLATIONAL MEDICINE

A key hub for medical and public health research and advances, with a focus on Asian populations

FINANCE AND RISK MANAGEMENT

Contribute to Singapore's goal of becoming a world-recognised leading financial centre in Asia

SMART NATION

Develop strategic capabilities in data science, analytics and optimisation, and cybersecurity

MATERIALS SCIENCE

Carry out innovative basic and applied research that enriches society and business enterprise in Singapore and the world

MARITIME

Sustain cutting-edge research, enhance synergistic industry university partnerships and contribute to the Singapore model for maritime development

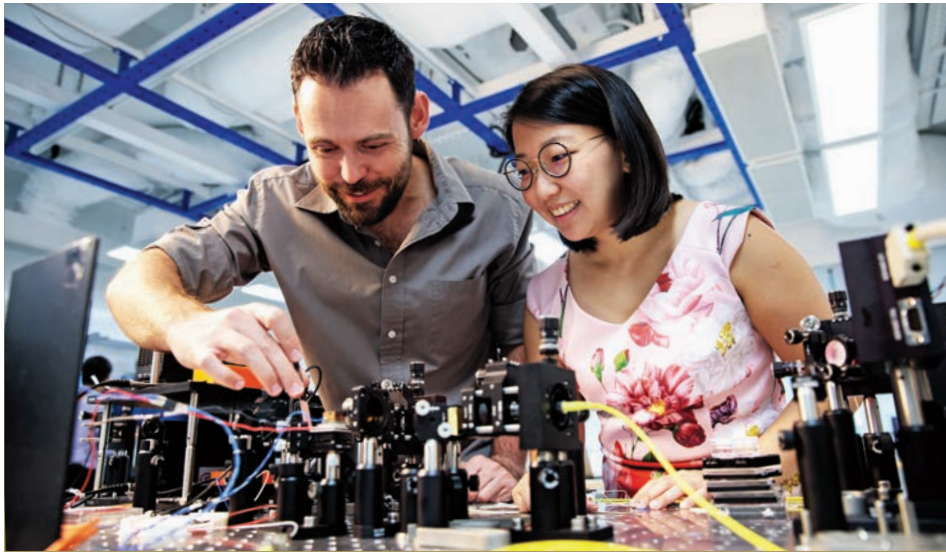
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Research Clusters



INTEGRATIVE SUSTAINABILITY SOLUTIONS

Develop new integrated sustainability solutions for a rapidly urbanising Asia



We recently launched three new initiatives – the NUS Centre for Research in Privacy Technologies that will study privacy comprehensively; the National Satellite of Excellence in Trustworthy Software Systems that develops certification capabilities, particularly for embedded software systems and

Internet-of-Things devices; and the Research Programme in Assuring Hardware Security by Design in Systems on Chip that will expand national capabilities in physical threats and countermeasures, secure architectures, security analysis and evaluation, and system-on-chip integration.

1,021 new projects launched in the year ¹	445 patent applications ¹
865 projects completed in the year ¹	346 patent applications ¹ (families ³)
117 new research collaborations ¹	89 patents granted ¹
10,300 papers published ² (Source: SCOPUS)	67 patents granted ¹ (families ³)
379 invention disclosures ¹	110 Technology licences executed ¹

¹ Financial Year 2018 as at 11 June 2019

² Calendar Year 2018 as at 12 June 2019

³ A patent family is a collection of patent applications covering the same technical content but filed in various countries. The applications in a family are related to each other through priority (a first application in a country) claims.

Industry partnerships are crucial in transitioning NUS inventions from the laboratory to the marketplace. The NUS Industry Liaison Office engages our researchers and works closely with national agencies and companies to effect technology transfer as well as market NUS technologies globally.

NUS also creates synergies by teaming up with the government, industry and leading academic partners to ensure that our research consistently addresses real-world issues. In just five years, the University has set up five corporate laboratories to develop, apply and translate key technologies for industry implementation.

NUS CORPORATE LABS



INSPIRING THE ENTREPRENEURIAL SPIRIT

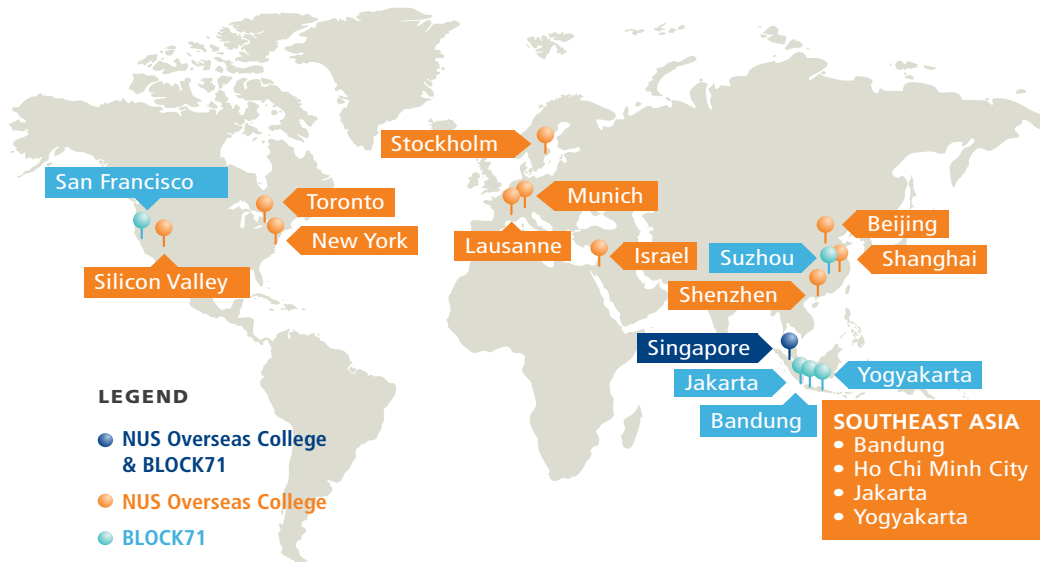
NUS Enterprise, the University's entrepreneurial arm, has been actively promoting entrepreneurship and cultivating talents through education, industry partnerships and holistic start-up support.



The popular NUS Overseas Colleges (NOC) programme, which combines overseas start-up internships with entrepreneurial coursework at leading partner universities, equips our students with valuable hands-on experience in dynamic innovation hubs.

Since 2002, more than 2,800 students have benefitted from an entrepreneurial education and carved out successful ventures in the business world. In 2018 and 2019, the NOC programme expanded to include new locations in Southeast Asia, Toronto and Shenzhen.

12 NUS OVERSEAS COLLEGES AROUND THE WORLD



Other experiential learning opportunities include:

Summer Programme: A residential course on local business insight and entrepreneurship development activities for international students

Lean LaunchPad Singapore Programme: An evidence-based validation process to commercialise technological inventions

NUS Innovation and Entrepreneurship Exchange: An exchange programme for start-ups to explore new markets, learn and exchange knowledge, and build connections in tech start-up hubs worldwide

We also provide entrepreneurship support through the NUS Start-Up Runway, a comprehensive suite of incubator-cum-accelerator services and platforms to form and grow businesses both in Singapore and overseas.

Entrepreneurs can nurture their business ideas at The Hangar by NUS Enterprise on campus, while NUS Enterprise@Singapore Science Park and BLOCK71 Singapore offer off-campus entrepreneurial opportunities and access to the innovation and entrepreneurship community.

Through collaborations with the government, corporations and industry, we enable start-ups in the NUS ecosystem to grow, and gain international market access.

BLOCK71

BLOCK71 is an initiative that combines the research capabilities and technologies of the University, the unique experience of business partners, as well as the investment and business astuteness of established enterprises

to build globally connected start-up ecosystems. Since 2011, we have established seven BLOCK71 facilities to provide greater market access, networks and support to start-ups at key enterprise hubs across the globe.

CARING FOR THE COMMUNITY

We provide many avenues for our students to pursue their passion in sports, arts and culture, as well as social and environmental causes.



The NUS community is committed to making a difference to society through selfless acts of kindness. Our students regularly engage in social projects, fundraising, health screening sessions,

voluntary tuition and mentorship, facility building for the underprivileged and other community programmes to better the lives of others.

GREEN NUS

Our student groups are actively involved in the sustainability cause by promoting environmental awareness on campus.

For instance, the largest environmental student group Students Against Violation of the Earth (SAVE) holds an annual two-day carnival to educate the NUS community on minimising our environmental impact through daily actions.

The "Go BYOnd!" 2019 festival advocated for students to Bring Your Own (BYO) bags and containers to reduce reliance on one-off disposables, and also to think about going beyond BYO towards zero waste.



RAG AND FLAG

Rag and Flag, an NUS tradition, is a yearly charity affair that instils kinship among students while rallying a spirit of giving and volunteerism. On Flag Day, our students collect donations from all corners of Singapore for beneficiaries. This is followed by Rag Day, when they show their gratitude for the community's support with a parade of multihued floats and energetic performances.

>\$8 MILLION
raised through Rag and Flag
since 2000



CHILDREN'S CONCERT

NUS Yong Siew Toh Conservatory of Music students worked with children aged nine to 11 years from the Double Time programme, where they learned a second instrument over four months in a creative and engaging setting. The children, together with the students, performed in the Conservatory's annual Children's Concert in March 2019.



57 Bachelor's Degrees 70 Double Degrees 35 Joint Degrees

25 Concurrent Degrees 53 Second Majors

>2,800

NOC alumni

>600

NOC alumni companies

>300

start-ups/ projects
incubated per year



>200
student organisations,
societies and interest groups

>20
groups in music, dance,
theatre and visual arts

40
NUS varsity sports teams



TET Photography

Student exchange in

>300
partner universities

>40
countries

10TH
globally in graduate
employability



DISTINGUISHED HERITAGE

- 1905** The Straits Settlements and Federated Malay States Government Medical School is founded at Outram, where Singapore General Hospital stands today
- 1913** The School is renamed the King Edward VII Medical School, making it the first institution of higher learning in Singapore
- 1921** The Medical School becomes the King Edward VII College of Medicine
- 1928** Raffles College is established at Bukit Timah to provide tertiary education in the arts and sciences
- 1949** Raffles College merges with the King Edward VII College of Medicine to form the University of Malaya, the first university for the people of Singapore and the Federation of Malaya
- 1955** Nanyang University, a privately funded Chinese university, opens its doors
- 1962** The Singapore campus of the University of Malaya becomes an autonomous institution known as the University of Singapore
- 1980** The National University of Singapore is established with the merger of the University of Singapore and Nanyang University





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