

This is

NUS

2022/2023

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.

An Education Rejuvenated

As Singapore's oldest and most established university, we have always prided ourselves on providing a holistic and rigorous education throughout the course of time. We train generations of graduates to be agile and adaptable, and to rise to the challenges of an evolving workforce amidst a rapidly changing world.

Reinventing education has always been part of our DNA.

We foster innovative pathways which offer students global exposure such as the NUS Overseas Colleges; student exchange; double, joint and concurrent degree programmes. We encourage deep living-learning interaction through our residential colleges. We advocate lifelong learning to empower adult learners to acquire new knowledge and skills for personal and professional growth.

A TRANSFORMATIVE EDUCATION FOR ALL

An NUS education does not just broaden minds, but transforms trajectories. Our enhanced financial aid scheme now helps to fully cover the tuition fees of full-time Singaporean undergraduates from low-income households.

The additional S\$15 million committed to financial aid every year will also go towards funding living expenses, on-campus stays and overseas programmes, ensuring that all students – regardless of their financial background – will be able to enjoy a holistic experience in their years at NUS.



Annual undergraduate enrolment of
30,000
— the largest share (>40%)
of total university enrolment in
Singapore*

* Based on data from the Singapore Ministry of Education of the total enrolment in six publicly-funded Autonomous Universities from Academic Year (AY) 2016 – AY2019



Initiating interdisciplinarity and flexibility

Solving today's complex problems requires the ability to integrate knowledge from multiple disciplines. An interdisciplinary outlook will provide the required flexibility to respond to changes in today's fast-paced work environment.

The University's interdisciplinarity initiatives include:

COLLEGE OF HUMANITIES AND SCIENCES

The College of Humanities and Sciences offers students from the Faculty of Arts & Social Sciences and the Faculty of Science an enhanced undergraduate experience. Students will have access to facilities and courses from both faculties, providing them an opportunity to expand their interdisciplinary learning and develop competencies across fields.

NUS COLLEGE

An undergraduate honours college, NUS College offers students a unique and flexible educational model with exciting pathways to carve their own learning aspirations. A broad, interdisciplinary curriculum, residential experience, global exposure and a supportive, inclusive community — these are the hallmarks of an NUS College education, which aim to grow a community of change makers.

COLLEGE OF DESIGN AND ENGINEERING

Students who enrol at the College of Design and Engineering will have opportunities to develop competencies across the fields of engineering and design. This will give them greater choice, breadth and flexibility in charting their learning journeys, which are designed to advance the professions of engineering, architecture and design.

NUS graduates are among the
world's top 10
for employability
— ranked **9th** in the
*Global Employability Ranking
and Survey 2021*

Forward looking, future ready

ENHANCED CURRICULUM

To ensure that an NUS education remains relevant in the changing work environment of the 21st century, we have injected new pillars of knowledge into our curriculum such as Communities and Engagement, Data Literacy and Digital Literacy. This will prepare our graduates to adapt to an increasingly data-driven and technology-centric world as well as grow social consciousness and effect positive changes in society.

In 2019, NUS graduates commanded an
8% premium
in monthly salary compared to graduates from other local universities

LIFELONG LEARNING

One of the University's initiatives is the NUS Lifelong Learners programme, where our graduates have access to a wide selection of skills-based, industry-relevant courses which enhances their competitiveness in the job market. As part of this programme, student enrolment is valid for more than 20 years upon admission to a NUS full qualification degree; alumni are automatically eligible for publicly available courses under the programme.

Another programme, Advance@NUS, offers dedicated full-time undergraduate places to adult learners who have excelled in the workplace, and are motivated to further their studies at the University.



>300,000

students took up continuing education programmes at NUS

>11,500

participants in corporate education courses

>140,000

people took up free publicly available NUS Massive Open Online Courses

Provided more than **450,000** people with continuing education opportunities since 2016, bolstering the national SkillsFuture movement to encourage lifelong learning

AY2016 – AY2020 (Dec 2020)

Staying connected

We recognise the importance of fostering global collaborations for our staff and students to exchange ideas in education and research. Over the years, our network of alliances has grown and includes:



Research Reimagined

At NUS, we pursue problem-driven research — addressing today's most challenging questions to motivate discovery, drive innovation and present solutions that meet society's most pressing needs.

We take a holistic approach to our research, establishing collaborations with industry and government partners, and implementing strategic initiatives, with a focus on key interdisciplinary areas.





HEALTH INNOVATION

Health and medical research are becoming increasingly interdisciplinary, with researchers from different fields working collaboratively to develop innovative healthcare interventions.

The IDentif.AI platform, a groundbreaking artificial intelligence (AI) platform which optimises combination therapy for infectious diseases, illustrates how clinicians, engineers and biomedical scientists work in concert to develop pioneering solutions. This platform was used to derive an optimal combination of available therapies against SARS-CoV-2, the cause of COVID-19.



MATERIALS RESEARCH

To contribute towards a truly smart, sustainable future, we must reinvent technology by redefining the materials from which next generation devices will be made.

The Institute for Functional Intelligent Materials (I-FIM), the fourth Research Centre of Excellence to be hosted at NUS, leads in these efforts. Helmed by a world-class team of materials scientists, physicists, chemists and mathematicians, as well as experts in artificial intelligence and machine learning, I-FIM ushers in a new era for materials research. This new research paradigm promises to revolutionise a multitude of technologies with applications from healthcare to sustainability, energy storage and electronics to robotics.



SMART NATION

We continue to develop strategic capabilities in data sciences, artificial intelligence, cybersecurity, optimisation research and analytics. The Asian Institute of Digital Finance (AIDF) was jointly established by NUS, the Monetary Authority of Singapore and the National Research Foundation to provide thought leadership and strengthen synergies between education, research and entrepreneurship in the thriving area of digital finance.

AIDF will pursue foundational and interdisciplinary research projects covering fundamental digital infrastructure, performance optimisation of business processes, and advanced application development research on cyber, fraud and anti-money laundering challenges. The institute will also develop financial services to meet sustainability and resiliency needs.



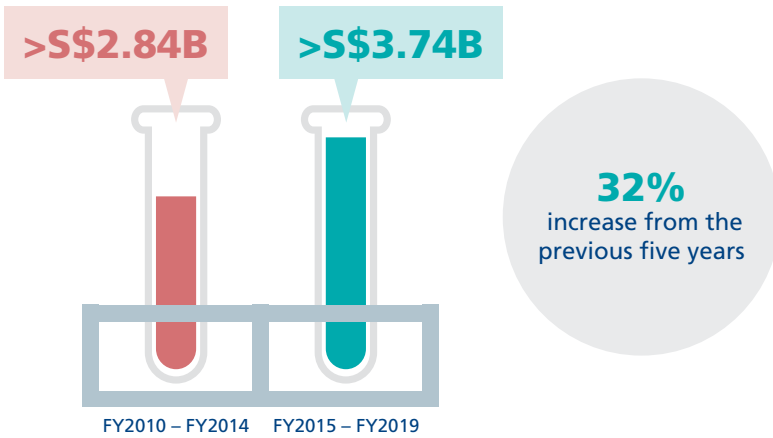
SUSTAINABILITY AND URBAN SOLUTIONS

Sustainability and Urban Solutions is a major research thrust at the University. Mitigating the impact of climate change and rising sea levels through coastal defence, urban design, nature-based solutions and the development of 'green energy' technologies will be imperative for Singapore and the region to meet current climate and environmental goals.

We have set up the Centre for Nature Based Climate Solutions to tackle the challenges of climate change, and hope to protect and better manage natural ecosystems through informed climate policies, strategies and actions.

Green finance is making significant inroads globally. At NUS, the Sustainable and Green Finance Institute (SGFIN) provides thought leadership and shapes sustainability outcomes and policymaking across the real economy and financial sectors. SGFIN aims to develop rigorous data-driven academic and applied research capabilities with a regional focus in Asia, and particularly Southeast Asia.

Research Funding



Research Publications

46,838
research /
academic papers
published

3,476
articles published
in journals with a
high impact factor*

235
homeruns**

* Refers to journals with Journal Impact Factor ≥ 10

** Journal articles with 20 times more citations than the average in a particular discipline

Calendar Year (CY) 2016 – CY2020

Collaborations* with **>3,000**
universities / institutes in **>160 countries**

* Based on all types of publications

Entrepreneurship Envisioned

A forward-looking university, NUS supports Singapore's vision of becoming a leading start-up and entrepreneurial hub by playing a pivotal role in advancing entrepreneurship on campus and beyond. We groom and support our student entrepreneurs by providing them with strong mentorship and infrastructure support, as well as global exposure to a network of partnerships.



Nurturing entrepreneurs

The NUS Overseas Colleges (NOC) programme, conceptualised two decades ago, continues to be extremely popular with our students. It combines overseas start-up internships with entrepreneurial coursework at leading partner universities, equipping students with valuable hands-on experience in dynamic innovation hubs. The NOC programme is now offered in more than 15 entrepreneurial hubs, from the United States and Europe to the Far East.

Since 2002, more than 3,400 students have benefitted from the NOC programme, with many alumni launching successful ventures in the business world.



>15 NUS Overseas Colleges entrepreneurial hubs around the world



>850 start-ups founded by NOC alumni

>US\$800 million raised by NOC alumni start-ups,
3% of total funding raised by start-ups in Singapore.

As at Dec 2020

Creating new ventures

We encourage promising entrepreneurs to explore entrepreneurship as a viable career pathway and support them through our venture building programmes.

The flagship NUS Graduate Research Innovation Programme (NUS GRIP), launched in 2018, is part of our strategy to boost entrepreneurship and the commercialisation of NUS technology by providing step-by-step guidance to researchers and postgraduate students to transform the University's research into deep tech start-ups. This programme provides venture hot-housing, mentorship, industry linkages, gated seed funding of up to S\$100,000 for each venture, and incubation support over 12 months.

Other venture creation programmes include:

- **NUS MASTER OF SCIENCE IN VENTURE CREATION**

An immersive graduate degree programme that combines experiential learning with academic rigour to bring start-up ideas into fruition

- **LEAN LAUNCHPAD SINGAPORE PROGRAMME**

An evidence-based validation process to commercialise technological inventions

- **NUS TECHNOLOGY ACCESS PROGRAMME**

An experiential learning programme for professionals centred on understanding, accessing and leveraging deep technologies

NUS Graduate Innovation Research Programme (NUS GRIP)

5

runs completed

89

deep tech teams graduated from NUS GRIP

239

NUS GRIP entrepreneurs trained

>S\$13M

secured by NUS GRIP teams in external funding and grants

As at Aug 2021



Growing business ideas

Nestled within the sprawling campus is The Hangar by NUS Enterprise — the go-to place for budding entrepreneurs seeking entrepreneurship support for their ideas. There is also the NUS Start-Up Runway, which provides a comprehensive suite of incubator-cum-accelerator services and platforms to form and grow businesses both in Singapore and overseas.

Besides this entrepreneurship enclave, the NUS Enterprise@Singapore Science Park, NUS Agritech Centre and BLOCK71 offer off-campus opportunities and access to the innovation and entrepreneurship community in Singapore and around the world.

125
spin-off companies based
on NUS technology

238%
increase from the previous five years
(FY2011 – FY2015)

>800
companies / projects physically
incubated by NUS Enterprise

23%
increase from the previous five years
(FY2011 – FY2015)

FY2016 – FY2020 (Dec 2020)

Deepening collaborations

We also collaborate with the government, corporations and industry to enable start-ups in the NUS ecosystem to gain international market access. One such initiative is BLOCK71, where strategic partnerships with corporates and government agencies take flight, not just in Singapore but other parts of the world.

BLOCK71 forms part of a global network of innovation and entrepreneurial gateways to and from NUS. It provides programmes as a technology ecosystem builder and business connector to catalyse, aggregate and develop competencies of the start-up community.

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



A Community United

The commitment to give back to society was the underlying principle along which the University was founded, more than a century ago. We have always stayed true to this ethos, a community united in our tradition of giving.

Our students and staff are regularly engaged in social causes throughout the year. Some of the signature projects include the NUS Students' Union (NUSSU) Rag & Flag fundraising event and Neighbourhood Health Screening programme in Singapore, as well as facility-building projects, and mentoring underprivileged children in countries around the region. Our staff and students also come together for the annual NUS Day of Service, an event which creates meaningful social impact.

NUS Day of Service

About
2,000
participants every year

>5,000
beneficiaries every year on average

>200
activities held over the last five years

CY2016 – CY2020

>200 local and **>150**
overseas community projects
run by NUS students

AY2016 – AY2020 (Dec 2020)

Rag & Flag

A cherished tradition unique to NUS, NUSSU Rag & Flag is an annual fundraising event that fosters kinship among students through the spirit of volunteerism. On Flag Day, our students fan across Singapore to collect donations for beneficiaries. This is followed by Rag Day, where they show their gratitude for the community's support with a parade of multihued floats and energetic performances.

Since 2000, our students have raised about S\$8.5 million in donations for Singapore beneficiaries through the annual Rag & Flag events.

The desire to serve the wider community lives on after our graduates leave the hallowed halls of the University. Many have carved out successful careers and become leaders in government and industry. More notably, we are humbled and honoured to have nurtured six Singapore Presidents and Prime Ministers. Our alumni currently make up half of the 14th Singapore Parliament.



S\$330K

raised for charities per year
on average

22

charity programmes receive
funding on average

CY2016 – CY2020

Nurturing young eco-stewards

NUS is committed to advancing sustainable development and contributing to the global fight against climate change. Through the key thrusts of education, research and campus operations, we are ramping up efforts to inculcate a strong culture of environmental consciousness in our campus community.

We have more than 20 active student groups who are passionate about raising environmental awareness and championing various sustainability issues. The largest and most active student group — NUS Students Against Violation of the Earth (NUS SAVE) — advocates purposeful structural and behavioural change to bring about a greener campus. Their green agenda includes promoting green canteens, reducing textile waste and consumption, and raising awareness of our biodiversity.

Saying “no” to disposables

A flagship initiative by NUS SAVE, Project Box Project Tumbler promotes the practice of utilising reusable containers for takeaways at the canteens. This project was a success, with more than 105,000 disposable containers and 40,000 disposable cups averted since it was launched in 2010.

Our Heritage

1980

National University of Singapore

The National University of Singapore is established with the merger of the University of Singapore and Nanyang University

1955

Nanyang University

Nanyang University, a privately funded Chinese university, opens its doors

1928

Raffles College

Raffles College is established at Bukit Timah to provide tertiary education in the arts and sciences

1913

King Edward VII Medical School

The School is renamed the King Edward VII Medical School, making it the first institution of higher learning in Singapore

1962

University of Singapore

The Singapore campus of the University of Malaya becomes an autonomous institution known as the University of Singapore

1949

University of Malaya

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

1921

King Edward VII College of Medicine

The Medical School becomes the King Edward VII College of Medicine

1905

Medical School

The Straits Settlements and Federated Malay States Government Medical School is founded at Outram, where Singapore General Hospital stands today



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