

**NUS**  
at a **glance**  
2015/16







## Asian and global

Over a century ago, the National University of Singapore (NUS) was born in a bustling metropolis at the crossroads of Asia.

From modest beginnings as a medical college with 23 students, the University now spans three campuses, enrolls 38,000 students from more than 100 countries in many critical fields of study, and forges partnerships around the world. Our strategic location in the heart of Asia has shaped NUS' growth over the years, and we continue to strive towards greater heights of excellence.

Today, we are a global thought leader with a distinctive Asian perspective. We are transforming the future through education, research and service.



# Providing future-ready education

Our programmes are designed to prepare students for a lifetime of careers, including those that might not yet exist.



3 campuses

- › Kent Ridge
- › Bukit Timah
- › Outram

Total student population

38,000

Undergraduates

28,000

Graduate students

10,000

NUS is a place that fuels each student's drive to contribute to Singapore and the world. Our programmes empower graduates to think critically in new ways across disciplines, and prepare them for jobs that might not yet exist.

Through the **grade-free semester and experiential learning opportunities**, our students are free to explore, experiment and discover their interests. Our strong partnerships with industry enable our students to graduate with a strong portfolio of hands-on industry experience and future-ready skills.



We offer a breadth of disciplines and global programmes, as well as entrepreneurial opportunities around the world. The **student exchange, double degree and joint degree programmes** allow our students to attend some of the world's best universities. The flagship **NUS Overseas Colleges** programme, which immerses students in business hubs across the world, injects a crucial entrepreneurial dimension in their education.

Our spectrum of **blended learning courses** takes scholarship to a new level. With the aid of technology, we integrate face-to-face activities with online platforms to transform the way our students learn on, and increasingly, off campus.

16 Schools

- › Faculty of Arts and Social Sciences
- › NUS Business School
- › School of Computing
- › Faculty of Dentistry
- › School of Design and Environment
- › Duke-NUS Graduate Medical School Singapore
- › Faculty of Engineering
- › NUS Graduate School for Integrative Sciences and Engineering
- › Faculty of Law
- › Yong Loo Lin School of Medicine
- › Yong Siew Toh Conservatory of Music
- › Saw Swee Hock School of Public Health
- › Lee Kuan Yew School of Public Policy
- › Faculty of Science
- › University Scholars Programme
- › Yale-NUS College



Geography field trip in Thailand



Yale-NUS College, Singapore's **first liberal arts college**, combines the strengths of established science and liberal arts traditions with the **diverse intellectual traditions and cultures of Asia and the world**. A full residential programme complements the students' academic learning, broadens their perspectives and nurtures active citizens for a complex and interconnected world.

We provide a conducive environment for meaningful **living-learning communities** to flourish. **University Town** epitomises the NUS vision of a vibrant campus ecosystem. Complete with student residences, learning facilities and performance spaces, the invigorating collegial environment blurs the line between learning and interaction and provides for a richer and more holistic experience.

On-campus living is available in the form of the **University Town College Programme** and at Ridge View Residential College as well as within the various Halls of Residence. The first emphasises multidisciplinary learning and active small-group learning, enabling students to assimilate and synthesise cross-disciplinary knowledge, facilitating multi-perspectival thinking. Selected Halls of Residence also offer new **credit-bearing modules** and other **structured learning programmes**, including a mentorship programme.

Student exchange programmes with

>300

top universities in

50

countries

52

Bachelor's degree programmes

144

Master's and doctoral degrees and graduate diploma programmes

71

Double degrees

35

Joint degrees

27

Concurrent degrees

28

Double majors

## Creating impact

From ageing and translational medicine to quantum technologies and the environment, NUS researchers hunt for solutions to improve life in Asia and the world.



Our strategy targets **high-level research** over a broad base, and we collaborate with government, industry, NGOs and leading academic partners to ensure that our research consistently addresses **real-world issues**.

Building on the collective strengths of our Schools, Research Institutes and Centres, we have developed **major research thrusts** in at least **eight fields** including translational medicine, ageing, and security, to better address pressing challenges.

### 8 Integrative clusters

- › Ageing
- › Asian Studies
- › Biomedical Sciences and Translational Medicine
- › Finance and Risk Management
- › Integrative Sustainability Solutions
- › Maritime
- › Materials Science
- › Security





Each cluster is flexible and dynamic, and pursues **globally competitive research** with an appropriate **Asian focus**. The respective clusters promote integrative research among researchers in related fields, creating a **super-cluster** which is necessary for tackling complex issues from multiple angles.

This provides unique opportunities for our students to learn more holistically, in a highly collaborative environment. It also offers an effective interface between pools of research talent in NUS, and industry partners seeking large-scale integrative R&D and solutions.

## 26 University-level research institutes/centres

- › Asia Research Institute
- › Centre for Advanced Two-Dimensional Materials
- › Centre for International Law
- › Centre for Maritime Studies
- › Centre for Healthcare Innovation and Medical Engineering
- › Centre for Remote Imaging, Sensing and Processing
- › East Asian Institute
- › Energy Studies Institute
- › Institute for Mathematical Sciences
- › Institute of Real Estate Studies
- › Institute of South Asian Studies
- › Interactive and Digital Media Institute
- › Life Sciences Institute
- › Middle East Institute
- › NUS Environmental Research Institute
- › NUS Global Asia Institute
- › NUS Nanoscience and Nanotechnology Initiative
- › NUS Research Institute (Suzhou)
- › Risk Management Institute
- › Singapore Institute for Neurotechnology
- › Singapore Nuclear Research and Safety Initiative
- › Singapore Synchrotron Light Source
- › Solar Energy Research Institute of Singapore
- › Temasek Laboratories
- › The Logistics Institute – Asia Pacific
- › Tropical Marine Science Institute

The University has also established a number of **overseas education and research facilities** with reputable international partners:

- › **IRES Global Logistic Properties Research Centre** with Global Logistic Properties in China
- › **NUS Research Institute** in Suzhou Industrial Park
- › **NUS-Tsinghua Extreme (NExT) Search Centre** in Beijing
- › **SONDRA Laboratory** with Supelec, Onera and DSTA Research Alliance in France
- › **Xiada-NUS Joint Life Science Laboratory** with Xiamen University in China



## 3 Research Centres of Excellence

- › Cancer Science Institute of Singapore
- › Centre for Quantum Technologies
- › Mechanobiology Institute Singapore

A fourth centre, Singapore Centre on Environmental Life Sciences Engineering, is shared with Nanyang Technological University.

## 3,563

New and existing projects underway

## 519

Patent applications filed<sup>1</sup>

## 171

Research awards attained<sup>1</sup>

## 7,301

Papers published<sup>2</sup>

<sup>1</sup>Financial Year 2013  
<sup>2</sup>Calendar Year 2014 (source: Scopus)  
<sup>3</sup>Figures correct as at 14 Jan 2015

# Nurturing entrepreneurs

From internships to start-ups, we nurture and encourage our students to be multifaceted and entrepreneurial doers.

Entrepreneurial education is provided through the **NUS Overseas Colleges** programme. Our students are offered overseas internship opportunities in dynamic start-up environments at strategic hubs, where they study at prestigious partner universities while gaining first-hand entrepreneurial experience and exposure.

Our NUS Overseas Colleges are located in:

- › Silicon Valley, United States (2002)
- › Shanghai, China (2004)

- › Stockholm, Sweden (2005)
- › Beijing, China (2009)
- › Israel (2011)
- › New York, United States (2014)

Students who choose to learn more about entrepreneurial challenges in Singapore can explore **iLEAD (innovative Local Enterprise Achiever Development)**. This programme offers internship at local start-ups and high-growth companies expanding into the region.



Other experiential learning opportunities include:

- › **Summer Programme:** a two-week residential course for international students on local business insight and entrepreneurship development activities
- › **Lean LaunchPad@Singapore Programme:** designed for those who wish to have a hands-on experience on commercialising technological inventions

**Entrepreneurship support** locally and overseas is provided through the **NUS Start-Up Runway**, comprising a comprehensive suite of incubator-cum-accelerator services and platform for start-ups to form and grow their business.

**Industry partnerships** are in place to help NUS inventions make the leap from the laboratory to the marketplace.

We also work closely with agencies such as the National Research Foundation in Singapore to manage funding for the development and marketing of NUS technologies.

**Entrepreneurship outreach** is widely promoted through collaboration with various faculties and alumni groups, and via student initiatives. Additionally, programmes which bring entrepreneurial buzz to NUS include global networking events such as ASEAN+3-Silicon Valley Entrepreneurial Network (ASVEN) and InnovFest unBound.

Timely **research on entrepreneurship and innovation** is conducted to continuously support growth in entrepreneurial activities.

>2,900  
Invention disclosures

>4,000  
Patents filed

>330  
Technology licences executed

>38%  
Agreements with industry

>360  
NUS Enterprise portfolio companies

>1,800  
NOC and iLEAD alumni

*Cumulative figures as at 30 Apr 2015*



# Developing global knowledge networks

Our faculty members forge links with like-minded colleagues around the world, leading to collaborative initiatives that transcend national boundaries.



We embrace **partnerships in education and research** that reach well beyond the University community to positively impact society.

Our partnerships with some of the world's best institutions leverage individual strengths, bringing about opportunities for teaching, learning and discovery, and innovative new programmes. These collaborations include:

- › **Duke-NUS Graduate Medical School Singapore** with Duke University

- › **Institute of Real Estate Studies** with Sino-Singapore Tianjin Eco-city Investment and Development Co Ltd
- › **Keio-NUS CUTE Centre** with Keio University
- › **Keppel-NUS Corporate Laboratory** with Keppel Corporation (Keppel) and National Research Foundation
- › **Lee Kuan Yew School of Public Policy** with John F Kennedy School of Government, Harvard University

- › **NUS Environmental Research Institute** with Shimadzu (Asia Pacific)
- › **NUSDeltares** with Deltares
- › **Risk Management Institute** with University of California, Berkeley
- › **Singapore, Peking and Oxford Research Enterprise for Water Eco-Efficiency** with Peking University and University of Oxford
- › **The Logistics Institute – Asia Pacific** with Georgia Institute of Technology
- › **Yale-NUS College** with Yale University
- › **Yong Siew Toh Conservatory of Music** with Peabody Institute, Johns Hopkins University
- › International Business Machines Corporation
- › International Rice Research Institute
- › Kühne Foundation
- › Le Centre National de la Recherche Scientifique
- › Microsoft Singapore
- › Nagasaki University
- › Shanghai Jiao Tong University
- › The Hebrew University of Jerusalem
- › The London School of Hygiene & Tropical Medicine
- › The World Bank Group
- › Tsinghua University
- › World Health Organization

Some of our other partners are:

- › Beth Israel Deaconess Medical Centre, Harvard University
- › European Aeronautic Defence and Space Company
- › Innopolis University

## Member of prominent global networks

- › International Alliance of Research Universities
- › Association of Pacific Rim Universities
- › ASEAN University Network
- › Universitas 21



Joint concert by students from the Yong Siew Toh Conservatory of Music and Peabody Institute at Carnegie Hall, New York

Photo credit: Will Kirk/JHU Homeewood Photography

# Discovering life on campus

An NUS education goes beyond classrooms and laboratories, grades and careers.

Beyond our Halls of Residence and residential colleges, a **vibrant student life** plays out vividly across campus in organised as well as spontaneous activities.

With the wide array of **artistic and cultural pursuits** on campus, the University offers a busy arts calendar packed with events from music recitals and rockfests to jazz soirées and classical dances.

>100

Student organisations,  
societies and interest groups

>40

Sports under TeamNUS

>20

Groups in music, dance,  
drama and visual arts



From inter-faculty games to inter-varsity meets, we are also the launch pad for many **sporting champions** who represent the nation at the international arena. Many **talented musicians** have also honed their skills at the University before excelling globally.

All full-time undergraduates are members of the **NUS Students' Union (NUSSU)** and its respective faculty constituent clubs. NUSSU comprises a total of 14 constituent clubs and nine committees, with the latter covering areas such as global relations and community service among others.



# Giving back to the community

Our students tirelessly seek new opportunities to make a difference and create value for society.



A university founded for the community, we are inspired to give back to those who need it most. NUS students have a tradition of active involvement in community service, both locally and overseas, and through the years, have made major contributions through fund-raising and a myriad of projects.

One event which galvanises the entire student community in giving is **Rag and Flag**. Originating in 1958, this iconic event comprises Flag Day where students sell flags to raise funds for charity; and Rag Day, where a dazzling parade of floats and lively student performances entertain and thank the public for their contributions to the less privileged.

**>\$6 million**  
raised through Rag and Flag  
since 2000



Other notable projects include **Neighbourhood Health Screening**, a free door-to-door health screening exercise for families living in one-room or two-room rental flats; and **Connect Tuition** which sees students from the University Scholars Programme reaching out to underprivileged children through tuition and mentorship.

We have established the Centre for Community Engagement to further enhance the **spirit of volunteerism** in our students, and encourage them to share their time with the society at large.

Our students are also **ardent green advocates** and as a community, we continually find ways to enhance the environmental sustainability of our campus. Best practices for green living and leadership are part of an NUS education. The campus itself is a model of sustainability, and is a founding member of the International Sustainable Campus Network, which includes universities such as Harvard University, ETH Zurich and Peking University.

**>1,000**  
families benefitted  
through  
**Neighbourhood  
Health Screening**  
since 2008





# 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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