FACT SHEET II

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Media contacts

Ms Sophia Lim  
Manager, Corporate Communications  
Nanyang Technological University  
Tel: 6790 6684  
H/P: 9683 4733  
Email: Sophia_lim@pmail.ntu.edu.sg

Ms Rachael Low  
Executive, Corporate Communications  
Defence Science & Technology Agency  
Tel: 6879 5093  
H/P: 9793 5596  
Email: rachael_low@dsta.gov.sg

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ABOUT NANYANG TECHNOLOGICAL UNIVERSITY

Nanyang Technological University was recently ranked by the Times Higher Education Supplement at the 50th place globally and 7th in Asia, in its ranking of the 200 best universities in the world.

The campus was originally developed for a Chinese language university, Nanyang University in 1955. In 1981, Nanyang Technological Institute was established on this campus to educate engineers for the rapidly developing Singapore economy. In 1991 Nanyang Technological University was inaugurated.

The university has a strong engineering school ranked among the best in the Commonwealth, a business school with one of the top 100 MBA programs in the world, an internationally acclaimed National Institute of Education, one of the best Schools of Communications and Information in Asia, and a new (2001) School of Biological Sciences playing a leading role in Singapore’s Life Sciences initiative. The Institute of Defence and Strategic Studies is an international authority on terrorism.

The university is in a major expansion from 16,000 to 22,300 undergraduate students. During this expansion, three new schools are being built – the School of Humanities and Social Sciences, the School of Physical and Mathematical Sciences and the School of Art, Design and Media.
Strong international relationships and collaboration programmes is a hallmark of the university. This includes the Singapore-MIT Alliance, Singapore-Stanford Partnership, Cornell-Nanyang Institute of Hospitality Management, Singapore – University of Washington Alliance in Bioengineering, Global Immersion Programme with Peking University, Tsinghua University, Shanghai Jiao Tong University, University of Washington and Georgia Institute of Technology, among many other programmes in US, China, India, Japan and Europe.

**Temasek Laboratories**

Temasek Laboratories (TL@NTU) is a research laboratory established jointly by NTU and DSTA in 2003. The mission of the laboratory is to explore frontiers in science and develop strategic technologies that will deliver effective solutions to enhance the defence and security of Singapore.

TL@NTU also serves to promote the development of long-term technology programmes, foster interaction among researchers from universities, defence community and industry and facilitate technology transitions to applications. The areas of research undertaken by the laboratory are Modelling and Simulations, Signal Processing System on Chip, Monolithic Microwave Integrated Circuits, Radar Systems and Soldier Systems.

**School of Art, Design & Media**

The School of Art, Design and Media is set up to initiate and educate artistic, designer and creative media professionals who will become future leaders in creative fields in Singapore and throughout Asia. It will be instrumental in transforming Singapore into a global hub for the development of new creative ventures and intellectual property.

The school offers studies in traditional, experimental and technological forms of art and design: Animation, Digital Film-making, Emotive Robotics, Interactive Installation and Game Design, Product Design, Digital Photography and Visual Communication. All students who successfully complete the 4-year undergraduate course will be conferred a Bachelor of Fine Arts (Hons) degree.

**NTU Game Lab**

The NTU Game Lab is established in April 2004 to boost Singapore's push into new areas of game technology. The Game Lab collaborates with various schools, labs and research centres within NTU to explore the creative use of technologies for the advancement of game media, develop new arenas in game design, and further studies in the areas of psychology and analysis of game play, user interfaces and navigation, and story and content.

For more information, visit [www.ntu.edu.sg](http://www.ntu.edu.sg)
ABOUT DEFENCE SCIENCE & TECHNOLOGY AGENCY

Defence Science & Technology Agency (DSTA) is Singapore’s national authority for defence science and technology. Set up as a statutory board on 15 March 2000 under the Ministry of Defence, DSTA provides leading-edge solutions for the defence and security of Singapore.

As the executive agent for Mindef, DSTA roles and functions include:

- acquire weapon systems for the SAF
- advise MINDEF on all defence science and technology matters
- manage defence research and development
- design, develop and maintain defence infrastructure
- provide engineering and related services in defence areas
- implement defence technology policies and plans

Over the years, DSTA has built-up expertise in defence acquisition, programme management, system development as well as research and development in multi-disciplinary areas such as engineering, command and control, communications and computer (C4) systems and building infrastructure.

The organisation taps cutting-edge technologies, whether military or commercial, and fosters an environment of creativity and innovation in developing defence applications. DSTA also continually promotes and encourages a strong community of scientists and engineers from the universities, research institutes, government and industry to work towards delivering solutions to meet the nation’s defence and security needs.

About Command, Control, Communications, Computer & Information Technology (C4IT) Centres

The centres of C4IT within DSTA look beyond today’s known needs and requirements in information technology to give an edge in the defence capability of Singapore. They play a vital role in providing superior and transformational capabilities to enable connectivity and information sharing, enhanced situation awareness, and rapid decision making by future commanders in network-centric warfare. Over the years, the group has developed a niche in C4IT solutions for strategic & tactical command & control (C2), wargaming, as well as modelling and simulation.

About DSO National Laboratories

DSO National Laboratories (DSO), an affiliate of DSTA, is another national resource and its role as a National Laboratory is multi-faceted. Guided by its primary focus in defence R&D, DSO strives to enhance the defence technology capability of Singapore by assimilating new technologies and generating indigenous ones to give the Singapore Armed Forces (SAF) a decisive edge in the battlefield.

For more information, visit  www.dsta.gov.sg
                            www.dso.org.sg
ABOUT UNIVERSITY OF SOUTHERN CALIFORNIA

University of Southern California (USC) is one of the world’s leading private research universities, with excellence in teaching and research. USC is renowned in the fields of communications and multimedia technologies and has received national acclaim for its innovative community.

About Institute of Creative Technologies

Established in 2000, the Institute for Creative Technologies (ICT) is an award-winning research centre that advances the state-of-the-art in virtual reality and immersive environments. Funded by the US Army, this institute with USC is a unique collaboration between the Hollywood Entertainment community, USC’s highly regarded computer research facilities and Silicon Valley’s electronic gaming industry.

School of Cinema and Television

The School of Cinema and Television offers a wide variety of degree and non-degree programmes in the areas of film and TV production, animation and digital arts, writing and producing, and critical studies such as examination of mass media, popular culture, etc. One of the school’s divisions, the Interactive Media Division, offers a Masters programme with courses in interactive media and games, including online massive multi-player game environments.

Integrated Media Systems Center

Integrated Media Systems Center is a centre for multimedia and internet research, with a successful cross-disciplinary programme of research, education, outreach, industry collaboration and technology transfer. The centre has developed immersive technologies such as 3D face modeling and animation, immersivision panoramic video technology and immersive audio. Major progress is also being made in haptics (touch-related technologies), data compression and wireless communications.

Information Sciences Institute

Information Sciences Institute is one of the world’s leading research centres in the fields of computer science and IT. The institute is actively engaged in a broad spectrum of information processing research, and is heavily involved in the development of advanced computer and communication technologies, in fields such as artificial intelligence, natural language technology, internet communications, advanced networking, etc.

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