

MSc Technopreneurship and Innovation Program

ICSB Global Awards in Entrepreneurship Education Excellence (Graduate Level) 2018

The Master of Science Technopreneurship and Innovation Program (MSc TIP) is the flagship program of Nanyang Technopreneurship Center (NTC) at Nanyang Technological University (NTU), Singapore.

A research-intensive public university, NTU has 33,000 undergraduate and postgraduate students in the colleges of Engineering, Business, Science, and Humanities, Arts and Social Sciences, and its Graduate College. In 2018, NTU was placed 12th globally in the Quacquarelli Symonds (QS) World University Rankings. It was also ranked the world's best young university (under 50 years old) by QS for the fifth consecutive year. In addition, NTU was named the world's fastest rising young university by Times Higher Education in 2015.

NTC was established in 2001 as the focal point of innovation and entrepreneurship education in NTU. The center trains a new generation of entrepreneurs on how to think, judge, decide, and act under intrinsic uncertainty, to survive and thrive in a global economy.

The MSc TIP adopts a broad and vibrant definition of entrepreneurship, from leadership to management, operation, and innovation. The program incorporates experiential learning and real business perspectives in its curriculum and andragogy. Unique aspects and features of the program include:

- Course designed based on the venture creation and development cycle, covering issues at various stages of a start-up's growth;
- Faculty comprising experienced academics, practitioners and entrepreneurs, blending theory and practice into the curriculum;
- Experiential learning and exposure to the entrepreneurship ecosystem;
- Entrepreneurial mindset and behaviour development, enabling participants to better acquire and apply relevant knowledge and skills in real-life cases;
- Specially crafted Overseas Immersion Program comprising corporate visits, workshops and seminars at leading institutions, and start-up challenges providing participants eye-opening and thought-provoking learning experience;

- “Teaching + Learning + Sharing” in a diverse environment, inside and outside classrooms.

Selected MSc TIP courses are offered as electives to NTU PhD candidates, to enhance cross-disciplinary student interactions, knowledge sharing, and possible startup team formation for technology commercialization in the NTU community and beyond.

The MSc TIP has helped many graduates in developing an enterprising mindset and transforming their business dreams into reality. About 40% of the graduates started new ventures, 30% joined MNCs, 20% joined SMEs, and 10% joined public sectors including government or related agencies. Some promising alumni from the program were named “30-under-30” young entrepreneurs by Forbes in recent years.

- **Chiu-Hao (Ted) Chen**, Forbes 30 under 30 Asia - Manufacturing and Energy 2016

<https://www.forbes.com/pictures/hfmj45eil/chiu-hao-ted-chen/#7b3d9fac24d0>



Ted co-founded EverComm Singapore, a provider of energy management analytics solution, in 2013. By modeling real-time equipment energy usage and external environmental factors, it develops energy saving settings for large organizations. To date, it has generated millions of dollars in energy savings and in revenue. It has received accreditation as an innovative energy analytics company from Singapore’s Infocomm Development Authority and received an award from the 8th World Entrepreneurship Forum in Hangzhou. The business has been further expanded to Taiwan and Malaysia. Ted received NTU’s Nanyang Outstanding Young Alumni Award in 2016.

- **Adrian Ang**, Forbes 30 under 30 Asia - Healthcare & Science 2018

<https://www.forbes.com/profile/adrian-ang/?list=30under30-asia-healthcare-science#616e6010148b>



Adrian Ang is a co-founder and CEO of AEvice, a Singapore-based biomedical startup behind the product BioAsthma. The wearable device uses artificial intelligence to monitor breathing specifically in asthmatic children. The device picks up on abnormal sounds being made by a user’s lungs and alerts parents on the onset of an asthma attack, so they can seek medical intervention

quickly and potentially even save their child's life. An asthma sufferer himself, Adrian and his fellow co-founders want to help improve the lives of asthmatic children.

In June 2018, MSc TIP clinched the International Council for Small Business (ICSB) Global Awards in Entrepreneurship Education Excellence (Graduate Level) for 2018, beating other internationally recognized entrepreneurship education institutes. Selection was based on the quality of each program's **curriculum**, **pedagogy**, and **impact** generated.

The submission process of this global award consisted of a nomination and a finalist presentation. The initial nomination required information such as program mission and purpose, principal students to serve, program description, unique features, student benefits, and program outcomes in short and long terms. About three weeks after the initial nomination, MSc TIP received a notification from the ICSB International Office for being chosen as a finalist for the award. According to the instructions given, the program submitted the final nomination package with a commitment statement naming its representative to present to the finalist judges' panel. The program is prepared to render its support to participate in the judges' panel in the subsequent years to ensure a consistency of quality and fairness of process of the awards.



'It was a great honor and pleasure winning this global award in entrepreneurship education excellence. The experience of putting together the whole set of required documents and going through the entire nomination process was rewarding too. It provided good opportunities for our program management to systematically review various aspects of the program, such as teaching pedagogy, administration process, quality control, alumni engagement, as well as graduate achievements....In this process, we received strong support and valuable inputs from our faculty and alumni. We learned a lot and identified some areas for further improvement,' said by Dr Xia Zhiqiang, MSc TIP Program Director.

(From left to right in the photo: Dr Xia Zhiqiang, MSc TIP Program Director; Prof Charles H. Matthews, MSc TIP Program guest professor; Ms Yasmin Ahmad Mazlani, MSc TIP alumna; Associate Professor Hooi Den Huan, MSc TIP Program professor)