



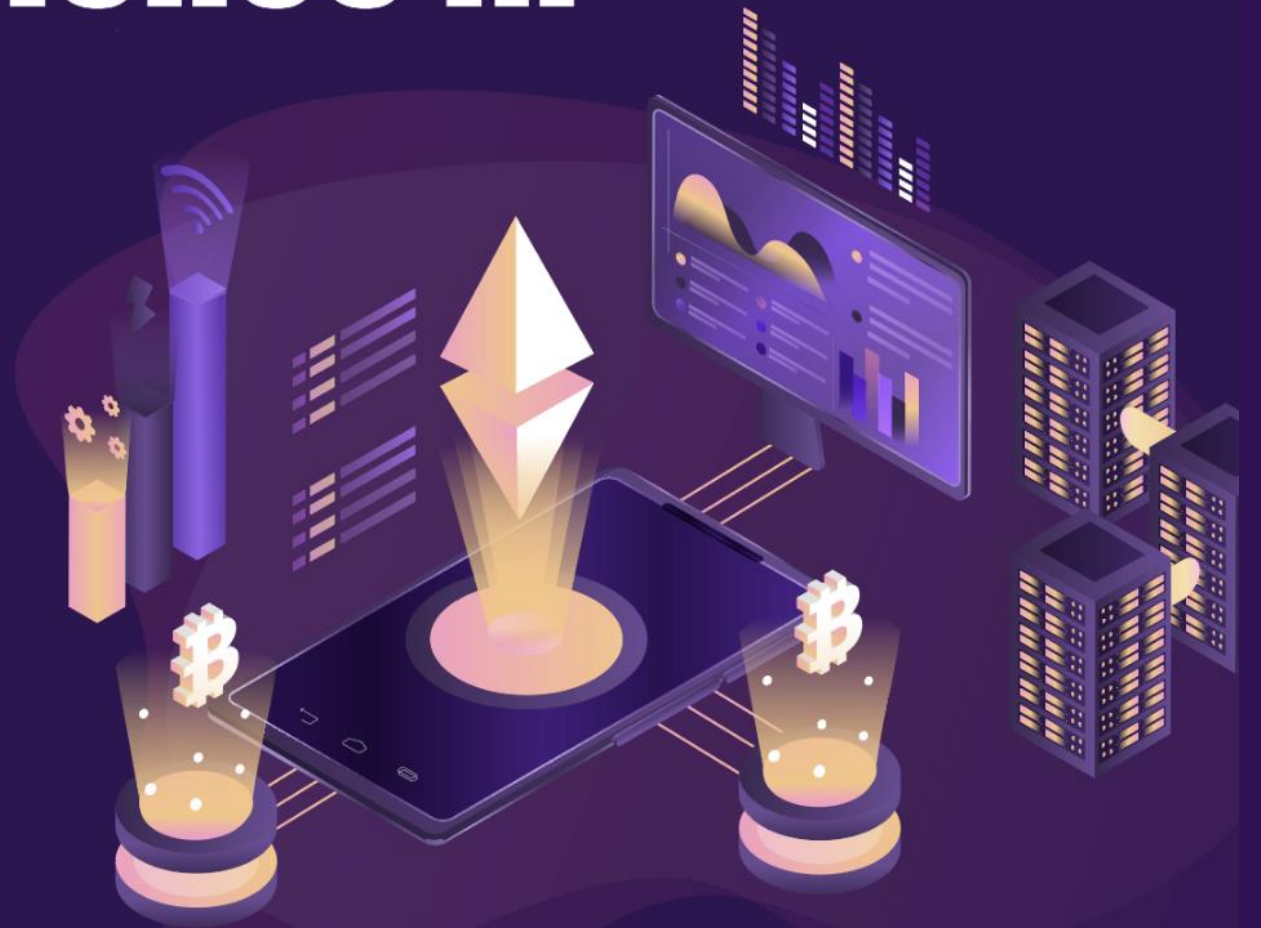
**NANYANG
TECHNOLOGICAL
UNIVERSITY**
SINGAPORE

NTU Centre in Computational
Technologies for Finance
Graduate College

Master of Science in Blockchain

2025 Intake

NTU-CCTF



Overview

The Master of Science in Blockchain (MSBT) programme is a flagship master's degree programme by Nanyang Technological University, Singapore, via the NTU Centre in Computational Technologies for Finance (NTU-CCTF). NTU-CCTF is an inter-collegiate and pan-university initiative managed by the NTU Graduate College (GC), with support from the College of Computing and Data Science (CCDS) and NBS (Nanyang Business School), and strong involvement from the College of Engineering (COE), College of Science (COS), College of Humanities, Arts and Social Sciences (CoHAAS), National Institute of Education (NIE), Lee Kong Chian School of Medicine (LKCMed).

The MSBT programme emphasizes the fundamentals of blockchain technologies (e.g. blockchain scalability, smart contracts, zero-knowledge proof, etc) from a computer science perspective, and explores the potential application of blockchain technologies in different vertical sectors, such as finance, banking, insurance, supply chain, energy, healthcare, artificial intelligence, and the Internet of things.



STARTS ON

The first intake is targeted for Aug 2023.



COOPERATION

Students in the program come from all over the world and have diverse technical backgrounds, creating a creative atmosphere for interdisciplinary collaboration.



CAREER

- Blockchain Developer
- Blockchain Project Manager
- Blockchain UX Designer
- Security Professional
- Solutions Architect



INDUSTRIES

Internships/projects with industry partners for exposure to real-world applications.

Programme Structure

The MSBT program is an intensive 1-year full-time (or 2- year part-time) program with coursework. Students will be awarded the Master of Science in Blockchain after completion.

The program consists of a total of 30 Academic Units (AUs).

- Each compulsory course is a 3 AU course with 39 teaching hours, including lectures, tutorials, example classes and labs over 12 weeks.
- Each elective course is a 1.5 AU course with 19.5 teaching hours over 6 weeks.
- The Blockchain Innovation (internship program) is a one-year project with 3 AU.
- The project (internship) will be co-supervised by industrial experts through the Technical Fellowship Program.
- The innovation project is not a compulsory component.

Core Courses

Blockchain Fundamentals

- Introduction to Blockchain Technology
- Distributed Systems
- Introduction to Cryptography
- Software Engineering
- Blockchain Development Fundamentals
- Blockchain and Smart Contract Security
- Blockchain Privacy and Scalability

Elective Courses

Blockchain Development

- Web Programming Basics
- Blockchain Solutions and Smart Contracts
- Development of Decentralized Applications
- Software Project Management
- Introduction to Cyber Security

Elective Courses

Blockchain Management

- Token Economics
- Emerging Topics in FinTech
- Blockchain Business Applications
- Ethics and Laws in Blockchain
- Blockchain in Finance

Project

- Blockchain Innovation Project

1st Master's Programme in Blockchain and

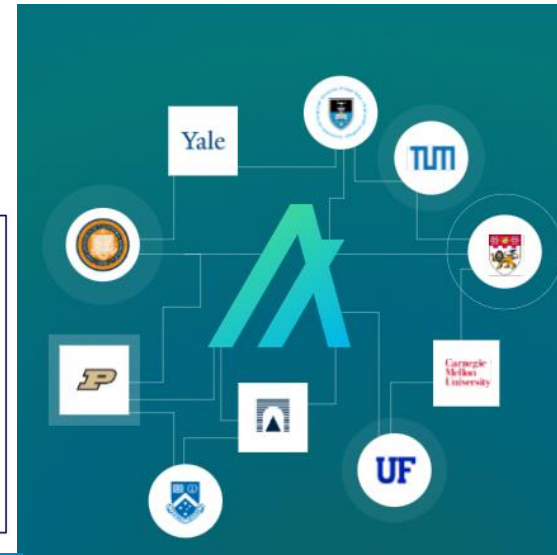
Its Applications Offered by a Top 15 QS-ranked University



Master of Science (Blockchain)

Centre in Computational Technologies for Finance

Partnership Engagement Plans



Annual Blockchain Conference



Algorand Centre of Excellence at NTU

(ACE-NTU)

\$S\$5.8M over 5 years to support Blockchain

- Education
- Research
- Community Development



More about: www.ntu.edu.sg/cctf



Admission Requirements



- A good honor degree in computer-related majors from reputable universities and institutes or a good bachelor's degree in any discipline with 2 years of computer programming job experience.
- A good TOEFL or IELTS score for graduates whose native language is not English.



TOEFL Score (Test dates must be within 2 years or less from the date of application):

- ≥ 600 (paper-based)
- ≥ 250 (computer-based)
- ≥ 100 (internet-based)

IELTS Score (Test date must be within 2 years or less from the date of application):

- ≥ 6.5



- GRE is not required for the MSc program (by coursework).

Timeline of 2025 Intake



Tuition and Fees

(SGD Before 9%GST)

- Singapore Citizens \$36,500
- Singapore Permanent Residents \$43,500
- International Students \$54,300
- NTU Alumni discount 10%



Apply for the SG Digital Scholarship

For Postgraduates, if you are keen to pursue your tech- or media-related studies at the Master or Ph.D. level in specialized. (Find out more at: go.gov.sg/SGDScholarships)

How to Apply

To apply for the Master of Science in Blockchain program, please visit

www.ntu.edu.sg/education/graduate-programme/master-of-science-in-blockchain

Get in touch with us

We look forward to receiving your application and welcoming you to the School of Computer Science at Nanyang Technological University.

For more information on the Master of Science in Blockchain program, please get in touch with the Admissions Committee at

cctf-msbt@ntu.edu.sg



Scan the QRcode to
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