

## Master of Science in Technology and Design (Cybersecurity)

### Programme Overview

The Master of Science in Technology and Design (MTD) (Cybersecurity) is a great choice for individuals who are keen to develop **cybersecurity** skills with **design innovation** expertise by taking advantage of the theoretical knowledge and methodological skills from design science, data-driven design and engineering systems.

This unique programme features a design core intertwined with information technology security electives. It leverages SUTD's pedagogy to train design innovators and leaders by providing a foundation in design science and design innovation, which is a distinctive feature of the Master of Science in Technology and Design programme.

This **one-year full-time** programme is suitable for individuals who wish to upgrade their skillset in cybersecurity, design science and innovation to **fast-track** their professional careers or entrepreneurial pursuits as technically-grounded leaders and innovators.



### Meaningful Experiential Learning

Students will have meaningful experiential learning and receive mentoring by working on projects in SUTD's research centres or external industry partners during their final term.

These projects provide hands-on opportunities for the students to apply their cybersecurity knowledge and hone their skills attained through the programme, equipping them with real world experience and skills that are highly sought after by employers. This will also foster their skills relevancy in this industry where threats and technologies evolve rapidly.

### Access to World-Class Testbeds

SUTD offers world-class testbeds that facilitate research and training in the design of secure large-scale cyber-physical systems. These testbeds include:

Secure Water  
Treatment  
(SWaT)

Water  
Distribution  
(WADI)

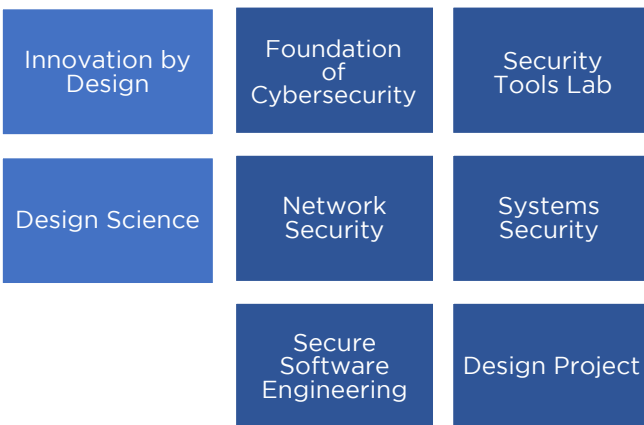
Electric  
Power and  
Intelligent  
Control  
(EPIC)

Research in  
Security  
Innovation Lab for  
IoT (RESILIOT)

## Programme Structure

The MTD (Cybersecurity) is a **one-year full-time** coursework-based Master's degree programme. It comprises eight courses (96 credits) of **two core design** courses and **six specialised** courses, including one design project, organised as follows:

**Two Core**  
design courses  
(12 credits each)    +    **Six Specialised**  
courses  
(12 credits each)



## Admission Criteria

Applicants should possess the following:

- At least a **bachelor's degree** in technology, including degrees in Engineering, Computing, and Applied Sciences, **or** in other related disciplines with two years of ICT industry experience;
- Proficiency in at least one of the following programming languages: **Java, C/C++** or **Python** (or other modern programming languages);
- Proficiency in **English** (TOEFL or IELTS is required if the medium of undergraduate instruction is not English).

Applicants without a relevant degree can submit a portfolio highlighting your skills, abilities and experiences to augment your application.

All applications will be reviewed by the MTD admissions committee.

## Career Opportunities for Graduates

MTD (Cybersecurity) graduates will be able to:

- contribute significantly to enterprises dealing with technological products and services;
- play a pivotal role in governmental institutes dealing with innovation, policy strategies and research institutions;
- act as consultants in technology assessments as well as innovation and change management.



## About SUTD

The Singapore University of Technology and Design (SUTD) is Singapore's fourth autonomous university and one of the first universities in the world to incorporate the art and science of design and technology into a multi-disciplinary curriculum.

SUTD's various research centres and laboratories provide cutting-edge equipment and world-class test beds for students' hands-on application.

SUTD was established to advance knowledge and nurture technically-grounded leaders and innovators to serve societal needs and create a better world by design.

## Contact Us

For more information about the MTD programme:  
[sutd.edu.sg/MTD-cs](https://sutd.edu.sg/MTD-cs)



For admission and programme enquiries:  
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*The content is correct as of the published date and subject to updates.*