

Carnegie Mellon University

# Master of Information Technology Strategy



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**MIT**S

The Master of Information Technology Strategy (MITS) is a cooperative endeavor of CMU's CMIST, the College of Engineering, and the School of Computer Science



# OVERVIEW

The rapidly evolving landscape of technology and related challenges requires an understanding of the broad range of network and cyber operations, data analytics and forensics, cyber security, decision science, politics and strategy, international security, and the ability to apply best practices to solutions. The MITS program offers a multidisciplinary approach, within which students obtain:

- Breadth through core coursework in each of these four areas: Data Analytics, Politics and Strategy, Information Security, and Software and Networked Systems, and
- Depth through a concentration in one of those areas.

Over the course of a 12- or 16-month program, the MITS program helps shape students into leaders by leveraging Carnegie Mellon's broad expertise in the critical areas of AI, cyber security and information dominance, drawing from CMU's faculty, research centers, and degree programs of international renown.

95%

of MITS graduates are employed within three months of graduation

\*CPDC Post-graduation Outcomes Survey



\$125,000

the median starting salary for MITS graduates

\*CPDC Post-graduation Outcomes Survey

# Unique Program Features

**Concentration Areas:** MITS focuses on four thematic areas collectively spanning disciplines that are essential in developing astute, knowledgeable, and practiced leaders in cyber security and information dominance.

**Seminar:** The Seminar course provides students with an opportunity to broaden their understanding of how what they learn in courses is being applied by thought leaders. As a global leader in technology and strategy, Carnegie Mellon hosts military and civilian leaders for campus-wide talks and in-depth seminars.

**Capstone Project:** The semester-long capstone promotes team-based engagement on a real-world problem related to MITS concentration areas. Information on past projects can be found at the MITS website ([www.cmu.edu/mits](http://www.cmu.edu/mits)).

**(NEW!) Summer Internship:** Students in the 16-month Applied Study program are given the opportunity to do a summer internship relevant to their field of study.

## Concentration Areas

### Information Security

An understanding of cyber threats and the mitigation of their impact ensures that program graduates are equipped to address the dangers of cyber attacks.

### Data Analytics

To be successful, tomorrow's leaders in Information Dominance must be proficient in extracting knowledge from large data systems. Such extraction requires mastery in techniques such as machine learning, social network analysis, and large-scale data reduction and filtering.

### Politics and Strategy

The ability to demonstrate sound reasoning about policy and strategy is an invaluable skill for individuals who will shape the future of IT strategy.

### Software & Networked Systems

An understanding of system and software architecture is essential for the management of safe, secure, and reliable information infrastructures.

## Take a course in:

- Applied Cryptography
- Network Forensics
- Dynamic Network Analysis
- Graduate Artificial Intelligence
- Future of Warfare
- Technology and Policy of Cyber War
- Distributed Systems
- Cloud Computing
- And more!

## To Learn More

visit us at [www.cmu.edu/mits](http://www.cmu.edu/mits)  
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