



Master of Science Information Security

Designed to address the widening skills shortage in Information Security, this programme delivers content that follows best practice in industry.

Contact us

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How to Apply

Information about the application process is available at:
<http://international.cit.ie/how-to-apply>

Non-EU Fees: €12000
Scholarships (25%) are available up to 31st March 2019 reducing fees to €9000.

This master's programme is unique as it's 100% Information Security. All modules are security focused, 100% relevant and exactly what industry requires.

The programme was designed with experts from leading Information Security companies. Modules include Network Security and Network Forensics, Penetration Testing, Security Management & IT Law, Digital Forensics & Incident Response, Scripting for Automation, Applied Cryptography, Malware Investigations, Malware Reverse Engineering, Data Analytics, Cloud Security, Embedded Security, Software Security and Threat Intelligence.

Hands-on labs are provided through CIT's private cloud, giving students 24/7 access to state-of-the-art Information Security labs.

Upon successful completion of the MSc in Information Security programme, the graduate will both understand and have the capacity to deploy many of the most advanced methods and systems to protect information at rest, in transit, and at work.

Graduates may also wish to continue to PhD level in this exciting field of study.

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Information Security (MSc)

Information security can be defined as the protection of information and information systems from unauthorised access, use, disclosure, disruption, modification, or destruction in order to provide confidentiality, integrity, and availability. Today, Information Security is becoming a function of increasing importance for the continued operation of commercial entities.

The MSc in Information Security programme has a strong applied emphasis which is supported by in-depth theoretical knowledge. The programme was developed with significant input from industry's leading Information Security experts.

Designed to address the widening practical and theoretical skills shortage in Information Security the programme delivers content that follows best practice in industry. The continuing trend of skills shortage in this area is predicted to increase the global demand for Information Security graduates.

Who Should Apply?

Are you interested in a career in Information Security? Do you hold an honours degree in Computer Science, Engineering or in a cognate discipline? If so, this master's degree is the right choice for you.

Programme Structure

The programme places significant emphasis on student learning by doing. It adopts a practical, hands-on, approach to learning, where all modules are fully assessed using continuous assessment methods. There are no formal end of semester written examinations and this ensures that you will learn by doing from the first module to the last.

This 90 credit programme is delivered over two 30 credit taught semesters. Each taught semester has a number of mandatory modules and a choice of electives as outlined below. The Research Project is started in Semester 2 and completed over the summer months.

Detailed module descriptors can be viewed using this link <http://cs.cit.ie/sched-infosec>.

Semester 1 (Autumn)	Type	Credits
Network Security & Forensics	Mandatory	10
Incident Response & Forensics	Mandatory	10
Scripting for System Automation	Mandatory	5
Cloud Security	Elective	5
Malware Investigations	Elective	5
Data Analytics	Elective	5
Free Choice Module	Elective	5

Semester 2 (Spring)	Type	Credits
Security Management and Law	Mandatory	10
Offensive Security	Mandatory	10
Applied Cryptography	Mandatory	5
Malware Reverse Engineering	Elective	5
Threat Intelligence	Elective	5
Software Vulnerabilities	Elective	5
Free Choice Module	Elective	5

Semester 3 (Summer)	Type	Credits
Research Project	Mandatory	30

In recent years, Cork has emerged as a global cybersecurity hub, with high profile international companies choosing it as a location for their operations.

Why Ireland for Cyber Security

There's safety in numbers



- + The **Top 5** worldwide security software companies are located in Ireland¹
- + Ireland, **the 4th best** country in the world for business 2015²
- + Ireland has a **strong talent pool**, highly skilled multilingual workforce
- + Ireland has one of the highest graduates and enrolments in mathematics, science and technology field in the EU-28³
- + 12.5% corporate tax rate & 25% R&D tax credit
- + Ideal base from which to serve global markets
- + **Neutral** country with high geopolitical stability
- + 12th most **peaceful** country in the world⁴