

Technology  
Ireland  
ICT

Skillnet,



National  
College of  
Ireland

CYBER SECURITY

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MESSANGER



Level 9 NFQ  
90 ECTS

# Master of Science in Cybersecurity\*

## Online Part-time

**Duration: 2 years (4 semesters)**

Cyberspace is considered as the fifth battlefield after land, air, water and space. With the rise in attackers and data breaches sweeping throughout companies, there is a greater need to keep personal and top-secret information safe from cyberattacks and to invest in enhanced and robust computer security measures.

Cybersecurity is an essential need for a modern society in which information technology and services pervade every aspect of our lives.

Cybersecurity has the fastest growth rate among all areas of IT, with the labour market encountering a severe workforce shortage in this field.

This online MSc in Cybersecurity will equip the student with state-of-the-art knowledge and practical skills that are increasingly sought after in industry today.

### Why study this programme?

A unique feature of this course is the strong collaboration between industry and academia in its development. The programme is taught over 2 years and is delivered completely online using state-of-the-art technologies and techniques to support the virtual classroom. The part-time element is to help busy professionals to study and work at the same time and as the programme is designed from an applied perspective, all learnings can immediately be incorporated into the work environment.

\*Subject to QQI Validation



The fees for this programme are part-funded by Technology Ireland ICT Skillnet

# MSc in Cybersecurity - Online

## Eligibility Criteria

Candidates must have a Level 8 Honours Degree in computing or a cognate area with a 2.2 award or higher. Cognate area means a STEM (science, technology, engineering or mathematics) degree that also has taught programming/application development related modules. This is a highly technical course so candidates are expected to have programming ability.

The college operates a Recognition of Prior Experiential Learning (RPEL) scheme meaning applicants who do not meet the normal academic requirements may be considered based on relevant work and other experiences. This may be assessed using a portfolio of learning, demonstration of work produced, and an interview. The programming ability of the applicant will also be assessed.

Candidates must be working in private or commercial semi-state organisations in the Republic of Ireland to avail of part-funded fees.

This programme is an online programme and as such, students are expected to successfully participate in lectures, laboratories and projects using a laptop computer with a substantial hardware configuration. Students must also ensure they have sufficient broadband speed & reliable connectivity. Exact configuration requirements will be sent upon application.

## Fees

Eligible candidates can avail of our part-funded fee which reduces the cost to €1,800 per person per annum.

## To Apply

Send your CV to [info@ictskillnet.ie](mailto:info@ictskillnet.ie).  
Candidates are encouraged to apply as early as possible.  
More information at [www.ictskillnet.ie](http://www.ictskillnet.ie)

**Closing Date: 27th November 2020**



Technology Ireland ICT Skillnet is co-funded by Skillnet Ireland and member companies. Skillnet Ireland is funded from the National Training Fund through the Department of Education and Skills.



An Roinn Oideachais  
agus Scileanna  
Department of  
Education and Skills



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## Programme outline

The online MSc in Cybersecurity a 2-year 90-ECTS course. Learners are required to complete 20-ECTS during each of the taught semesters and then a final 6-month semester completing the Internship and Research Methods modules.

### Core Modules (80 Credits);

- Network Security and Penetration Testing
- Security Fundamentals
- IT Law and Ethics
- Secure Programming for Web
- Cryptography
- Malware Analysis
- Research in Computing
- Secure Programming for Application Development
- Research Methods
- Internship

It offers two specialisations namely Forensics and Cloud Security that aim to provide a narrower focus into specific contexts where security principles are applied.

### Forensics Specialisation (10 credits):

- Incident Response and Analytics
- Forensics and eDiscovery

### Cloud Security Specialisation (10 credits):

- Cloud Security

## Term Months

**Year 1:** Semester 1 - January to May

**Year 2:** Semester 2 - September to January

Semester 1 - January to May

Semester 2 - May to January