



# Cork Institute of Technology Information Security

Cork is fast becoming the Information Security capital of Ireland with major companies choosing to locate in the region.

## Contact us

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The Department of Computer Science at Cork Institute of Technology (CIT) is one of the largest Computer Science departments in Ireland. We offer a range of modern undergraduate programmes and a host of opportunities at master's degree and at PhD level.

Our industry engaged programmes match the needs of our economy and have an excellent reputation for producing the most employable computer science graduates in the region.

As technology plays a greater role in our society the growth in the demand for these graduates will continue year after year.

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The following is a short list of vendor and non-vendor companies who have Information Security operations in Cork. AlienVault, Cylance, eSentire, FireEye, Forcepoint, GetVisibility, IBM, VMware, Johnson Controls, Keeper Security, McAfee, McKesson, Nuix, Qualcomm, SmartTech, Solarwinds, Sonicwall, Sophos, TransUnion, Trend Micro, UTRC and more to follow.



INSTITIÚID TEICNEOLAÍOCHTA CHORCAÍ

Several companies who have established operations in Cork in the past few years have stated that a key factor in their decision to locate in Cork was the talent pipeline available at undergraduate and at postgraduate level in the Department of Computer Science at Cork Institute of Technology.

As a result of close engagement with these companies we have extensive and direct contact with industry partners. We also have a reputation for being at the forefront in providing academic programmes and research to support these industries.

Please visit <http://cs.cit.ie> for more information.

We are interested in participating as a partner in H2020-SU-ICT-2018-2020 calls and have industry partners in the area of cybersecurity, IoT, smart cities and many other areas who also willing to form part of potential proposals. We are particularly interested in acting as work package or task leaders in building cybersecurity competence networks and the integration of artificial intelligence and cybersecurity systems.

We offer a range of online and full-time on campus master's degree programmes. We also have the knowledge and infrastructure to develop cybersecurity skills at all academic levels.



**Master of Science Artificial Intelligence**

"Just as electricity transformed almost everything 100 years ago today I actually have a hard time thinking of an industry that I don't think AI will transform in the next several years." - Andrew Ng, VP, Chief Scientist at Baidu

**FULL-TIME**  
This programme is delivered over one academic year.

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Artificial Intelligence (AI) is a field of computer science that enables computers and machines to perform tasks normally requiring human intelligence. Its many applications range from chess playing robots and autonomous cars to speech, image, and language processing, robotic manufacturing, and surveillance systems. In the twenty-first century, AI has experienced a resurgence following numerous advances in computer power, large amounts of data, and theoretical understanding. AI techniques have now become an essential part of the technology industry, helping to solve many challenging problems in computer science. The programme content delivers a comprehensive range of topics integral to the study of AI. These include machine learning, deep learning, natural language processing, optimisation, and big data processing to name but a few. Graduates of the programme may also wish to continue to PhD level in this exciting field of study.

**CIT** CORK INSTITUTE OF TECHNOLOGY  
NUI ROYAL TECHNOLOGICAL DUBLIN COLLEGE



**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.

**FULL-TIME**  
This programme is delivered full-time over 12 months.

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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.

**CIT** CORK INSTITUTE OF TECHNOLOGY  
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**Master of Science Cloud Computing**

"Cloud is about how you do computing, not where you do computing" - Paul Maritz, VMware CEO

**ONLINE**  
This programme is delivered exclusively online.

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Cloud Computing refers to the practice of using a network of remote servers hosted on the Internet to store, manage, and process data, rather than a local server on a personal computer. The MSc in Cloud Computing programme was designed to equip graduates with the detailed knowledge, specialist architectural and technical skills required to design and implement cloud based solutions, and services. The programme content seeks to reflect current and likely future practice in cloud planning and management, the design and management of virtual environments, data analytics, the consolidation of data centres, security techniques in multi-tenant virtualised environments and related areas that contribute to the building of both private and public cloud environments. CIT hosts its own private cloud infrastructure to support the delivery of modules giving students 24/7 access to state-of-the-art cloud computing data. All lectures are delivered online by academic and industry experts.

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Logos of industry partners including: FORCEPOINT, Johnson Controls, MCKESSON, ALIEN VAULT, TREND MICRO, esentire, FireEye, @keeper, Smarttech, United Technologies Research Center, SOPHOS, Malwarebytes, QUALCOMM, TransUnion, McAfee, vmware, solarwinds, IBM, SONICWALL, CYLANCE, nux.