Technology Ireland ICT Skillnet



MSc in Cybersecurity

BLENDED ONLINE • PART-TIME • NFQ LEVEL 9

www.ictskillnet.ie

NCI Coláiste Náisiúnta na hÉireann | National College of Ireland

Unleash your unstoppable potential, with Technology Ireland ICT Skillnet



Technology is ever-changing. No matter what stage you are at in business or your career, there is always more to learn.

At Technology Ireland ICT Skillnet, our vision is to create **progressive futures**, helping organisations to **transform at scale** and individuals to **develop a competitive edge**, through the **power of learning**.

For almost two decades, Ireland's leading technology companies have trusted us to build the critical skills needed to thrive in a rapidly evolving market.

Let us connect you to the infinite possibilities shaping the world of tomorrow.

Supercharged skills

Each of our programmes are designed, developed, and validated by specialists from academia and industry, working together, with a constant focus on:

1. **Creating opportunity and momentum** for experienced professionals and those starting out or transitioning career.
2. Delivering learning solutions in a way that **balances work and study**.
3. Providing practical skills, along with the theoretical, allowing businesses to **navigate new frontiers in the world of tech**.



6,000+
companies supported



14,000+
learners upskilled



30+
professional programmes



Online, blended, and
in-company training supports



Government-subsidised
programme fees, up to 100%

MSc in Cybersecurity
Master the art of cyber resilience

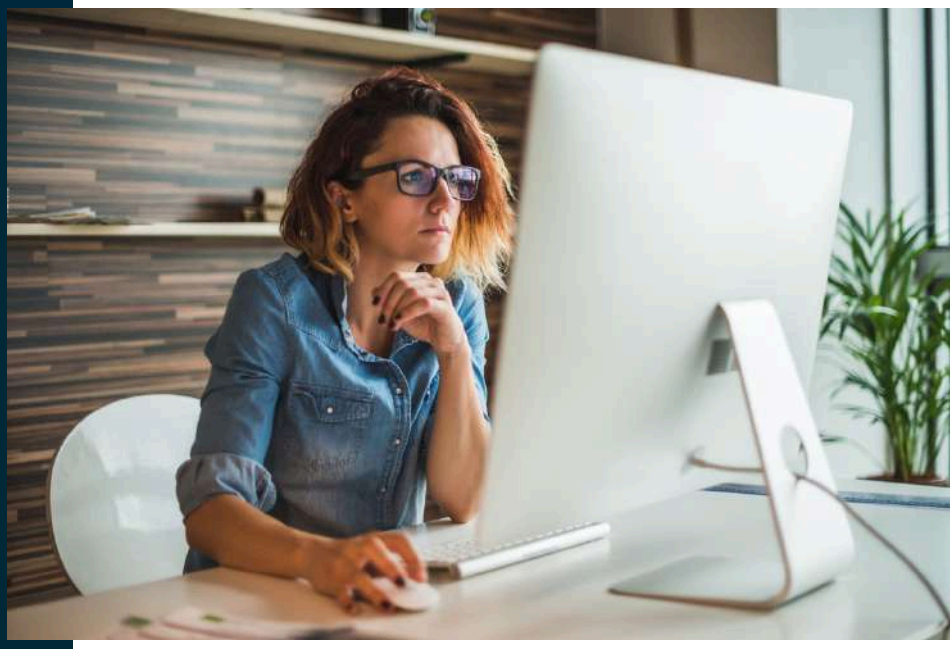
In today's technology-driven era, the surge in cyber attacks and data breaches has left businesses grappling with unprecedented exposure and risk.



The digital realm has become both a playground and a battleground, and cybersecurity professionals are the guardians of this new frontier. The protection of data and digital assets has never been more critical, but the heightened demand for skilled professionals has resulted in shortages of cybersecurity specialists, across multiple industries.

For ICT professionals interested in pursuing a career in cybersecurity or for those looking to enhance their existing cybersecurity capabilities, this 2-year blended online part-time Level 9 Masters programme is specifically designed to teach real-world practical skills that organisations demand, as you advance in this evolving field.

Whether you're a cybersecurity analyst, network security specialist, or an IT professional looking to specialise, the MSc in Cybersecurity will go beyond the basics. Take the next step in your cybersecurity journey with us, and redefine the future of digital security.



At a glance

Start Date
January 2027

Award
Level 9 NFQ (90 ECTS)

Delivery
Blended online - live lectures, video recordings and reading materials (via Moodle).

Duration
2 years part-time

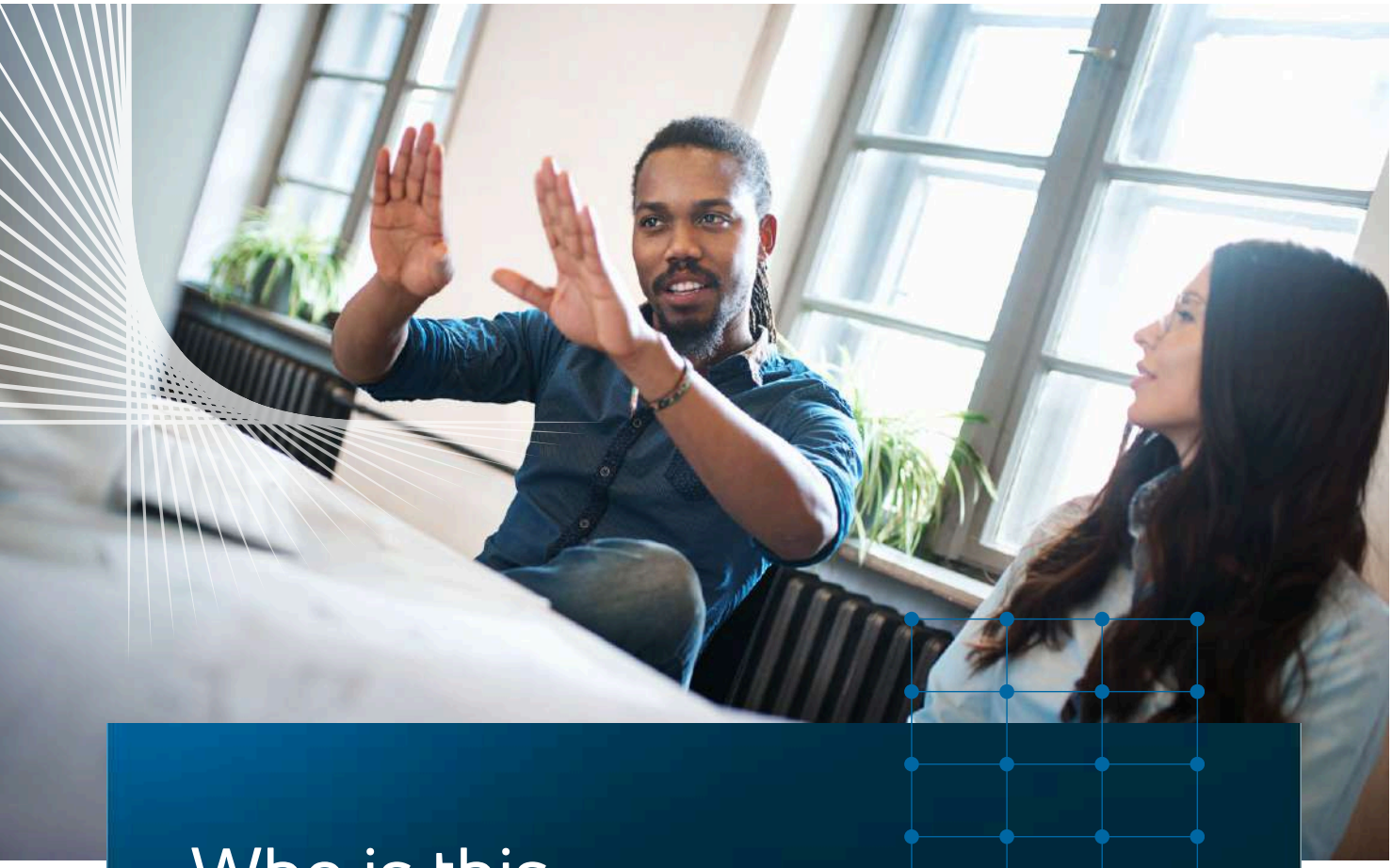
Fees
Skillnet subsidised: €3,295 per year
Non-subsidised: €4,800 per year

Programme Partner
National College of Ireland

What will you learn

The course is technical and practical in nature, uniquely created in collaboration with industry, and develops in-depth expertise of core technology and techniques. **Upon completion of this programme, you will be able to:**

- Analyse, identify, and document measures to address security vulnerabilities, risks, and weaknesses.
- Critically assess and evaluate ethical, legal, privacy, sustainable, and governance issues associated with developing secure applications and services.
- Make decisions and address security requirements through analytical thinking, communication, and interaction.
- Apply advanced security knowledge and utilise practical skills and technologies to design and implement cybersecurity solutions.
- Communicate complex and advanced cybersecurity concepts to a range of audiences.
- Conduct independent research in the cybersecurity area and formulate and implement novel ideas.



Who is this programme for

- **ICT professionals** who to want to develop their career within cybersecurity.
- **Cybersecurity professionals** who want to gain a recognised qualification.
- Those **aspiring to take a leading technical or managerial role** within their organisation.
- **Graduates in related fields** who are looking to progress into the emerging area of cybersecurity.

Semester and module breakdown

Semester 1

Jan - May
Year 1

- Security Fundamentals
- Data Governance, Ethics, and Sustainability
- Forensics and eDiscovery (S1)
- Secure Web Development (S2)

Semester 2

Sept - Jan
Year 1

- Network Security and Penetration Testing
- Cryptography and Blockchain
- Malware Analysis (S1)
- Secure Application Development (S2)

Semester 3

Jan - May
Year 2

- Cloud Architectures and Security
- AI/ML in Cybersecurity
- Business Resilience and Incident Management

Research Project (Capstone)

May - Jan
Year 2

Research Elective

- Practicum Part 1 & Part 2 OR/
- Internship Part 1 & Part 2

Learners will be asked to elect one of the two specialisations:
- Investigation specialisation (Semester 1)
- Secure Development specialisation (Semester 2)

Specialisations will run subject to a minimum number of learners. Learners will be asked by National College of Ireland to choose their specialisation before programme commencement.

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Please visit the National College of Ireland website for an indicative breakdown of module content. www.ncirl.ie

Outcomes for you



Cybersecurity roles have experienced a very fast growth rate in comparison to many other technology jobs in recent times. Additionally, many of the top global companies in this field are located in Ireland, such as McAfee, Symantec and CISCO.

Considering the high demand and the variety of roles within cybersecurity, graduates may explore careers in the following areas:

- Information security analyst
- Risk advisory on information security
- Secure application developer
- Forensics
- Cybersecurity tester
- Cloud security analyst

Assessment

The programme will be assessed with a blend of:

- Continuous assessments
- Directed activities and pre-class prep work
- Live online class attendance records
- Project work and exams (proctored online)

Award

Participants will receive a parchment for the Master of Science in Cybersecurity upon successful completion of the programme.

Academic eligibility



Candidates must have an honours (NFQ level 8) primary degree in computing or a cognate area with a 2.2 award or higher. Cognate area means a STEM (Science, Technology, Engineering, and Mathematics) degree that also has taught programming / application development-related modules. Candidates are expected to have programming ability, which can be demonstrated through transcripts, recognised certifications, and/or relevant work experience. An assessment and/or interview may be conducted to ascertain suitability if necessary, for candidates who do not meet the normal academic requirements.

The college operates a Recognition of Prior Experiential Learning (RPEL) scheme meaning applicants who do not meet the standard 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.

Non-native English speaking applicants must demonstrate fluency in the English language as outlined by IELTS, with an academic score of at least 6.0 or equivalent.

Funding eligibility

The fees for this programme are part-funded by Technology Ireland ICT Skillnet. The reduced programme fees are €3,295 per year.

Applicants must be employed by, or operating as, an eligible business engaged in economic activity in the Republic of Ireland. This includes private companies, sole traders, commercial social enterprises and eligible commercial semi-state organisations. Additional eligibility verification may be required for certain organisation types to avail of grant-aided fees.

Applicants who do not meet our funding criteria can apply privately to the National College of Ireland.

Please speak with our programme team to learn more about the availability of funding.

info@**ictskillnet**.ie

Programme delivered in partnership with:

National College of Ireland (NCI) is an exciting, innovative and forward-thinking third-level institution. NCI is a specialist college and provides a range of undergraduate, postgraduate and higher diploma programmes through its School of Business, School of Computing and Center for Education and Lifelong Learning. All qualifications are globally recognised, and you can be guaranteed exceptional quality and an excellent learning experience.



Ready to develop your career in Cybersecurity?

Our team is ready to answer any questions you might have regarding this programme. Send an email to info@ictskillnet.ie or use the enquiry form on our programme page and one of our programme leads will be delighted to assist you.

Successful applicants will be required to complete registration details both for Technology Ireland ICT Skillnet and for National College of Ireland. Programme participants will become registered students of the National College of Ireland.

Start your learning journey today
with Technology Ireland ICT Skillnet

Learn More

Embrace the future with confidence, with Technology Ireland ICT Skillnet as your training partner.

Technology Ireland ICT Skillnet

Programme pillars

Our wide range of programme channels allows you to access training in the latest technologies driving business development.

- Artificial Intelligence
- Cloud
- Cybersecurity
- Data Analytics
- Innovation & Transformation
- Leadership
- Quantum
- Software Architecture
- Software Development

Industry approved

With the support of our Industry Steering Group, made up of some of Ireland's most progressive companies, you can be assured that our programmes will provide you with the most relevant and cutting-edge skills that industry demands.

Fidelity Investments, Hertz, Liberty Information Technology, Ericsson, IBM, Cisco, hp, Technology Ireland Ibec

Certification you can trust

Through our strategic partnerships with some of Ireland's most influential higher education institutions, we offer a range of certificate, diploma, and masters programmes, with awards accredited on the National Framework of Qualifications.

TU Dublin, Atlantic Technological University, MTU, DCU Dublin City University, Maynooth University, University of Limerick, NCI National College of Ireland, University of Galway, TUS, UCD Dublin

Join 14,000+ learners who have transformed their careers with us. **Explore our range of courses ›**

www.**ictskillnet**.ie

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UNLEASH YOUR
UNSTOPPABLE POTENTIAL

Get in touch to invest in your development.
Email: info@ictskillnet.ie **Call:** +353 (0)1 469 3754

www.**ictskillnet**.ie

Technology Ireland ICT Skillnet is co-funded by Skillnet Ireland and network companies. Skillnet Ireland is funded from the National Training Fund and the European Union through the Department of Further and Higher Education, Research, Innovation and Science.

Skillnet Ireland

Rialtas na hÉireann
Government of Ireland

Co-funded by the European Union