Technology Ireland ICT Skillnet





MSc in Data Analytics

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 Data Analytics
Unlock the hidden potential of data

In today's data-centric world, industries worldwide grapple with massive data influx. The proliferation of information, from customer preferences to market trends, presents many opportunities but also many obstacles.



The need for professionals well-versed in data analytics has never been more critical. Businesses need talented data specialists to be able to make informed decisions, enhance efficiency, and secure data assets in an increasingly competitive landscape.

This 2-year online and part-time MSc in Data Analytics has been developed for ICT professionals and graduates from related fields, looking to be trained in both the technical intricacies and the business applications of data. The in-depth collaboration between industry and academia and the focus on practical, real-world scenarios ensures everything you learn can be applied to a live environment and that you feel empowered to decode data challenges.

Elevate your career prospects and become a sought-after data analytics specialist with our MSc in Data Analytics programme. Your future in data awaits.



At a glance

Start Date
January 2027

Award
Level 9 NFQ (90 ECTS)

Delivery
Online - Live lectures, video recordings and reading materials (via Moodle).

Duration
2 years part-time. Classes are held on two evenings per week and every second Saturday.

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

Programme Partner
National College of Ireland

Who this programme is for

- Graduates in related fields that are looking to progress into the emerging area of data analytics, to increase their employment progression potential.
- Career switchers or professionals from related disciplines with technical or mathematical problem-solving skills.
- Current data analysts who want to gain a recognised qualification to help them develop in their role and career.

Semester and module breakdown

The online MSc in Data Analytics is 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 Research Practicum/Internship.

The course offers a choice of two electives. Electives will run based on demand and students must choose 2 of the 3 electives listed.

Semester 1

Jan - May
Year 1

- Statistics & Optimisation
- Analytics Programming & Data Visualisation
- Data Governance, Ethics & Sustainability

Semester 2

Sept - Jan
Year 1

- Business Intelligence & Business Analytics
- Data Mining & Machine Learning

Semester 3

Jan - May
Year 2

- Deep Learning & Generative AI
- Data Intensive Scalable Systems [Elective]
- Modelling & Simulation [Elective]
- Domain Applications [Elective]

Research Project (Capstone)

May - Jan
Year 2

Research Electives

- Practicum Part 1 & Part 2, or
- Internship Part 1 & Part 2

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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



Upon completion of this course, you will have an advanced understanding of how to:

- Evaluate and communicate business and technical strategies for data analytics.
- Demonstrate expert knowledge of data analysis, statistics, and the tools, techniques and technologies utilised in both technical and business contexts.
- Conduct independent research and analysis in the field of data analytics.
- Formulate and implement a novel research idea using the latest industry practices.
- Assess ethical and data governance issues relevant to the storage, transfer, and processing of data for analytical purposes.
- Develop and implement effective business and technical solutions for data analytics.

Assessment

The programme will be assessed with a blend of:

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

Award

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

Academic eligibility



Learners must have an honours (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. All applicants must evidence prior programming and mathematics experience (e.g., via academic transcripts or recognised certification). Standard applicants for the programme are those holding computing or numerate degrees.

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:

NCI
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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 Data Analytics?

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, 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

Technology Ireland ICT Skillnet

UNLEASH YOUR
UNSTOPPABLE POTENTIAL

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

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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