# Free \* National College of Ireland

# \*100% FUNDING FOR ALL APPLICANTS WHO ARE UNEMPLOYED 90% FUNDING FOR ALL APPLICANTS WHO ARE IN EMPLOYMENT\*

National College of Ireland is now offering a limited number of funded places under the Springboard+ initiative, and the Human Capital Initiative (HCI) Pillar 1. All of these courses are available to eligible participants, regardless of employment status.\*

## **COURSES FOR SEPTEMBER 2021**

BLENDED ONLINE DELIVERY*	CLASSROOM DELIVERY*
<ul> <li>Certificate in Science in Computing</li> <li>Higher Diploma in Science in Computing (Software Development) (Level 8) (2 Years)</li> <li>Higher Diploma in Science in Computing (Web Development) (Level 8) (1 Year)</li> <li>Higher Diploma in Science in Data Analytics (Level 8) (2 Years)</li> <li>Higher Diploma in Science in Fintech (Level 8) (1 Year)</li> <li>Higher Diploma in Science in Computing (Al/ML) (Level 8)</li> <li>Higher Diploma in Science in Computing (Blockchain) (Level 8)</li> <li>Higher Diploma in Science in Computing (Cybersecurity) (Level 8) (1 Year))</li> <li>Postgraduate Diploma in Science in Data Analytics (Level 9) (1 Year)</li> <li>Postgraduate Diploma in Business in Entrepreneurship (Level 9) (1 Year)</li> </ul>	<ul> <li>Higher Diploma in Science in Data Analytics (Level 8) (1 Year)</li> <li>Higher Diploma in Science in Computing (Software Development) (Level 8) (1 Year)</li> <li>Postgraduate Diploma in Science in Cloud Computing (Level 9) (1 Year)</li> <li>Postgraduate Diploma in Science in Cybersecurity (Level 9) (1 Year)</li> <li>Postgraduate Diploma in Science in Fintech (Level 9) (1 Year)</li> <li>Postgraduate Diploma in Science in Fintech</li> <li>(Level 9) (1 Year)</li> </ul>
(Level 9) (T Year)	

\*Note: For courses described as Blended Online all classes are delivered online and will continue in that mode for the remainder of the academic year 2021/22. Delivery online in academic year 2022/23 where applicable, is subject to QQI approval.

For programmes described as Classroom Delivery there will be a mixture of online and on-campus delivery, which may vary by course. The college will transition back to classes on campus in accordance with Government guidelines.

# All applications must go through www.springboardcourses.ie

# For more information check out www.ncirl.ie or call 1850 221 721 (then select option 4)

Springboard+ is co-funded by the Government of Ireland and the European Union.













# **Certificate in Science in Computing**

### (Blended Online Delivery) (1 Semester)

This is an online directed learning course; meaning that time will be split between live online classroom sessions, and tutorials/ videos on the College's e-learning system. This split allows for class time to be interactive, practical, and focused, with theorybased content being covered outside of class time with self-paced tutorials/videos, and practical content being covered in live online classes with support from lecturers and lab assistants.

Location: Online	Duration: This course is one semester.	
Start Date: Week Commencing 4th October 2021.	Applications: Apply online at www.springboardcourses.ie	
Indicative Schedule: Tuesday and Thursday 18.00 - 22.00. There will also be three hours self-paced learning per week on NCI's Learning Platform. This will not appear on your timetable. Career Bridge classes will be delivered from 17.00 to 18.00 as per your timetable	Fees: A student contribution fee of €198 is applicable if you are in employment. No fees applicable if you are unemployed. The scheme does not cover any allowance for books and materials. If a student contribution fee is applicable this must be paid in full no later than Friday 19th of November 2021.	

### **Course Description**

This online blended course is ideal for non-technical individuals coming from different industry backgrounds who want to gain a good understanding of all the latest technologies and how to apply them to their businesses and sectors. It is flexibly delivered with guided videos and tutorials for you to watch and take time over during the week and then a live online class where you can discuss and learn from your lecturer and classmates. This programme gives you flexibility in how you study, an accredited qualification and a thorough understanding of key technology areas in 12 weeks of online delivery.

The course gives learners the fundamental computing knowledge needed to enter into the computing industry, or to progress on to further higher education courses. This course is designed with flexibility in mind, allowing learners to work through bespoke video content and guided tutorials during the week, with live online practical classes at the end of the week. Self-paced content is broken into small manageable chunks, and live sessions are designed for live questions and answers based around industry issues and practical problems. The core modules focus on Programming and Databases, specifically Java Programming and SQL. The course also offers two specialisations to choose from. Each specialisation element is a focused module designed to bring the learners quickly to the industry entry standard for the chosen specialisation. The specialisations (subject to availability) are:

- Computer Architecture, Operating Systems and Networks
- Statistics

The Computer Architecture Operating Systems and Networks specialisation provides learners with the knowledge and skills to work with core computer systems. Learners will gain practical knowledge and skills in core areas of computing such as:

- VMware
- PowerShell
- CommandLine
- Windows OS
- · Linux OS / Ubuntu · Cloud Services (AWS / Azure)
- · PC Hardware

The Statistics module will give learners the core skills needed to clean and analyse data using a variety of popular industry ready skills and tools such as:

- · Data Analytics
- Descriptive Statistics
- T-Tests
- Probability
- SPSS/Excel

As graduates are from other disciplines and with work experience, learners will have life skills and experiences that they bring with them on to the programme and into a new subject domain. Therefore, they are eligible for a number of roles. They could work in positions that are in- line with their skills but in the ICT sector or apply ICT knowledge gained through this programme to their current role

### Academic Entry Requirements

Learners who have a level 5 or higher awards in the areas of computing, computer science, IT etc., will be considered. For those without a computing background, a level 8 degree or its equivalent in any discipline is required. Applicants who do not meet the above criteria will also be considered on an individual basis. 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 extensive relevant work and other experience. This may be assessed using a portfolio of learning, demonstration of work produced, and interview.

### Laptop Requirements

Students are expected to successfully participate in lectures, laboratories and projects using a laptop computer with

a substantial hardware configuration. A suitable configuration is 6GB of RAM (8GB or more are recommended); a 64bit x86 processor (Intel i5 or superior); 250+ GB of hard disk; wifi card; and a recent installed release of Windows operating system. It is the responsibility of the student to ensure their laptop is functioning correctly and that they have full administrator rights to the machine. NCI IT cannot provide support to personal devices.

The course requires internet access you will be required to ensure you have sufficient broadband speed and reliable connectivity from your place of study.

Free Laptop loan for eligible students on this course: Students who are eligible for HEA funding for this course may also be eligible for a free laptop provided on a loan basis for the duration of the programme. This will be a suitable specification machine for completion of the programme but must be returned once you have finished your course. Overall numbers of laptops available are subject to maximum numbers and no other alternatives can be offered.

Check https://www.ncirl.ie/Students/ Student-Services/Support-Services/ Student-Laptop-Fund for updates on the next opening date for applications.

### Award and Progression

The Certificate in Science in Computing is awarded by QQI at level 8 on the National Framework of Qualifications (NFQ). Students who successfully complete this course may be eligible to progress to a major award at Higher Diploma or Masters level on the NFQ.

### Assessment

Please note in some cases exams and assessments may take place in the daytime, evening or weekends.

### Modules

- Software Development
  Introduction to Databases
  Computer Architecture Operating Systems and Networks (Elective)
  Statistics (Elective)
  Career Bridge

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# **Higher Diploma in Science in Computing**

(With specialisation in Software Development)

The Software Development stream provides learners detailed knowledge, problem-solving and technical skills in the area of software development using a modern programming language, such as Java, and application development framework(s). Blended Online 2 Year or Classroom 1 Year options available.

Blended Online Delivery (2 Year) Blended Online Delivery - This is an online directed learning course; meaning that time will be split between live online classroom sessions, and tutorials/videos on the College's e-learning system. This split allows for class time to be interactive, practical, and focused, with theory-based content being covered outside of class time with self-paced tutorials/videos, and practical content being covered in live online classes with support from lecturers and lab assistants.

### I ocation: Online

Start Date: The course is expected to start in the Week Commencing 20th September 2021.

Indicative Schedule: Monday & Wednesday 18.00 - 22.00.

There will also be up to three hours self-directed learning through the college e-learning system. These will not show on your timetable.

Career Bridge classes will be delivered one day per week in Semester 2 from 17.00 to 18.00. Day to be confirmed.

Duration: Sept to Dec 2021, Jan to May 2022, Sept to Dec 2022, Jan to May 2023

Applications: Apply online at www.springboardcourses.ie

Fees: A student contribution fee of €540 is applicable if you are in employment. No fees applicable if you are unemployed. The scheme does not cover any allowance for books and materials.

If a student contribution fee is applicable this must be paid in full no later than Friday 19th November 2021.

**Classroom Delivery** (1 Year) For programmes described as Classroom Delivery, there will be a mixture of online and on-campus delivery. The college will transition back to classes on campus in accordance with Government guidelines. Students should be prepared for a return to campus and also note in some instances, some elements of online learning may remain in place as required.

Location: IFSC and Online

Start Date: The course is expected to start in the Week Commencing 20th September 2021.

Indicative Schedule: Monday, Wednesday & Friday 18.00 - 22.00 and a number of Saturdays 09.00 - 18.00.

Career Bridge classes will be delivered one day per week in Semester 2 from 17.00 to 18.00. Day to be confirmed.

Duration: Sept to Dec 2021, Jan to May 2022 & May to Aug 2022.

Applications: Apply online at www.springboardcourses.ie

Fees: A student contribution fee of €540 is applicable if you are in employment. No fees applicable if you are unemployed. The scheme does not cover any allowance for books and materials.

If a student contribution fee is applicable this must be paid in full no later than Friday 19th of November 2021.

### **Course Description**

This course will appeal to non-technical professionals or graduates with a level 8 degree from different backgrounds who would like to upgrade their skills in the computing domain, helping them to progress faster in their employment or to apply the gained knowledge in their current role.

The course teaches students the computing fundamentals, complemented with detailed knowledge, problem-solving and specialised technical skills required for designing and developing technical software solutions.

The course offers a specialisation in Software Development, which brings the participants quickly to the graduate standard in this area. This course is designed with flexibility in mind, allowing learners to work through bespoke video content and guided tutorials the week before class, then polishing their knowledge with live online practical classes. Self-paced content is broken into small manageable chunks, and live sessions are designed for live questions and answers based around industry issues and practical problems.

The Software Development stream provides

learners detailed knowledge, problemsolving and technical skills in the area of software development using a modern programming language, such as Java, and application development framework(s). Depending on your delivery choice you will take Career Bridge as either classroom or blended online. It will help you to enhance your employability skills and improve your overall career prospects. Students will be assisted in identifying relevant employment or a placement during or within three months of completing their course.

Graduates may avail of many entry-level ICTrelated jobs, such as software developer, web development engineer and software engineer.

Note: The prospective students are required to specify the specialisation they would like to follow when they apply for a place within the Higher Diploma in Science in Computing programme. It is not possible to transfer course streams post registration.

### Career Prospects

This course is designed to meet the needs of the IT sector and secure future employment for graduates.

Companies who hired 2020 students include: Globalisation Partners (Director of IT Applications), Gentrack Ltd (Graduate Software Engineer), Aphix Software (Support Developer), ServiceNow (Senior Technical Support Engineer), HSE (Gradlink Programme), Datalex (Graduate Software Developer), LiveCosts.com (Graduate Software Developer), Optum (Technology Development Program Associate), Dabl Clinical Trials (Business Development Manager), Buddy.ie (Lead Engineer), State Street (Desktop Support Engineer).

### Who is the course for?

This course will typically appeal to graduates with a level 8 degree from different backgrounds who would wish to change their non-ICT qualification into the computer science field through a level 8 award in computing. Nonetheless, it is noted that the course is technical in nature and will entail a significant amount of independent study. Given the content and the timescale you will need to have a strong commitment to the course and a willingness to fully engage with the technical content.



### **Academic Entry Requirements**

A level 8 degree or its equivalent in a non-cognate discipline. Non-standard applications will be also considered on an individual basis.

The college operates a Recognition of Prior Experiential Learning (RPEL) scheme - meaning applicants who do not meet the normal academic entry requirements may be considered based on extensive relevant work and other experience. This may be assessed through a portfolio of learning, demonstration of work produced, interview and assessment.

### Laptop Requirements

Students are expected to successfully participate in lectures, laboratories and projects using a laptop computer with a substantial hardware configuration. A suitable configuration is 6GB of RAM (8GB or more are recommended); a 64bit x86 processor (Intel i5 or superior); 250+ GB of hard disk; wifi card; and a recent installed release of Windows operating system. It is the responsibility of the student to ensure their laptop is functioning correctly and that they have full administrator rights to the machine. NCI IT cannot provide support to personal devices.

This course requires internet access you will be required to ensure you have sufficient broadband speed and reliable connectivity from your place of study.

### Software Development specialisation (Classroom Delivery) (1 Year)

Semester 1

- Software Development
- · Object Oriented Software
- Engineering
- Introduction to Databases
- Web Design and Client
- Side Scripting

### Semester 2

- · Computer Architecture
- Operating Systems and Networks • Algorithms and Advanced
- Algorithms and
- Programming
- Distributed Systems
- $\cdot$  Career Bridge

Semester 3 • Project Free Laptop loan for eligible students on

this course: Students who are eligible for HEA funding for this course may also be eligible for a free laptop provided on a loan basis for the duration of the programme. This will be a suitable specification machine for completion of the programme but must be returned once you have finished your course. Overall numbers of laptops available are subject to maximum numbers and no other alternatives can be offered.

Check https://www.ncirl.ie/Students/ Student-Services/Support-Services/Student-Laptop-Fund for updates on the next opening date for applications.

### Assessment

The course will be assessed with a blend of continuous assessment and/or project work and exams. Please note that in some instances the exams may take place in the daytime, evenings and at weekends.

### Award and Progression

For all streams regardless of specialisation your final award will be a Higher Diploma in Science in Computing as awarded by QQI at level 8 on the National Framework of Qualifications (NFQ). Students who successfully complete this course may be eligible to progress to a major award at level 9 on the NFQ.

### Software Development specialisation (Blended Online Delivery) (2Years)

Year 1 Semester 1

- · Software Development
- $\cdot$  Web Design and Client
- Side Scripting

Year 1 Semester 2

- Object Oriented Software Engineering
- · Introduction to Databases
- Data Structures
- Career Bridge

### Year 2 Semester 1

- · Computer Architecture
- Operating Systems and Networks
- Algorithms and Advanced
   Programming
- Distributed Systems
- Year 2 Semester 2
- Project

Springboard Careers Advisors will proactively support you to find relevant employment during the course or following completion of the course.

Note: The prospective students are required to specify the specialisation they would like to follow when they apply for a place within the Higher Diploma in Science in Computing programme.

# **Higher Diploma in Science in Computing**

### (With specialisation in Web Development) (Blended Online Delivery) (1 Year)

This is an online directed learning course; meaning that time will be split between live online classroom sessions, and tutorials/ videos on the College's e-learning system. This split allows for class time to be interactive, practical, and focused, with theory-based content being covered outside of class time with self-paced tutorials/videos, and practical content being covered in live online classes with support from lecturers and lab assistants.

### Location: Online

**Start Date:** The course is expected to start in the week commencing 20th September 2021.

Indicative Schedule Evening: Monday & Wednesday 18.00 - 22.00 and a number of Saturdays 09.00 - 18.00.

There will also be four hours of self-directed e-learning content. These will not appear on your timetable.

Career Bridge classes will be delivered one day per week in Semester 2 from 17.00 to 18.00. Day to be confirmed. Duration: Sept to Dec 2021, Jan to May 2022 & May to Aug 2022.

Applications: Apply online at www.springboardcourses.ie

**Fees:** A student contribution fee of  $\in$ 540 is applicable if you are in employment. No fees applicable if you are unemployed. The scheme does not cover any allowance for books and materials.

If a student contribution fee is applicable this must be paid in full no later than Friday 19th of November 2021.

### **Course Description**

This course will appeal to graduates with a qualification in another area but would like to bridge the gap into a career in ICT and to focus on the development of websites and web applications. The first semester will give you a solid grounding in the computing fundamentals allowing you to move in the second semester onto more specialist modules in the area of web development. The course provides the opportunity to work in a wide variety of IT roles or to apply web development skills to your current industry sector.

The course teaches students the computing fundamentals, complemented with detailed knowledge, problem-solving and specialised technical skills required for designing, developing and deploying software.

The course offers a specialisation in Web Development, which brings the participants quickly to the graduate standard in this area.

The Web Development stream provides learners with technical and development skills in core topics of web programming covering topics such as advanced client side development, cloud application development and DevOpsSec.

Note: The prospective students are required to specify the specialisation they would like to follow when they apply for a place within the Higher Diploma in Science in Computing programme. It is not possible to transfer course streams post registration.

### **Career Prospects**

Graduates from NCI's Higher Diploma in Computing programmes have progressed to successful roles in a wide variety of technical and nontechnical roles. This web development specialisation opens up particular opportunities in a broad range of web development roles.

### Who is the course for?

This course will appeal to graduates with a level 8 degree from different backgrounds who would wish to change their non-ICT qualification into the computer science field through a level 8 award in computing. Nonetheless, it is noted that the course is technical in nature and will entail a significant amount of independent study. Given the content and the timescale you will need to have a strong commitment to the course and a willingness to fully engage with the technical content.

### **Academic Entry Requirements**

A level 8 degree or its equivalent in a non-cognate discipline. Non-standard applications will be also considered on an individual basis.

The college operates a Recognition of Prior Experiential Learning (RPEL) scheme - meaning applicants who do not meet the normal academic entry requirements may be considered based on extensive relevant work and other experience. This may be assessed through a portfolio of learning, demonstration of work produced, an interview and assessment.

### Laptop Requirements

Students are expected to successfully participate in lectures,

laboratories and projects using a laptop computer with a substantial hardware configuration. A suitable configuration is 6GB of RAM (8GB or more are recommended); a 64-bit x86 processor (Intel i5 or superior); 250+ GB of hard disk; wifi card; and a recent installed release of Windows operating system. It is the responsibility of the student to ensure their laptop is functioning correctly and that they have full administrator rights to the machine. NCI IT cannot provide support to personal devices.

The course requires internet access you will be required to ensure you have sufficient broadband speed and reliable connectivity from your place of study.

Free Laptop loan for eligible students on this course: Students who are eligible for HEA funding for this course may also be eligible for a free laptop provided on a loan basis for the duration of the programme. This will be a suitable specification machine for completion of the programme but must be returned once you have finished your course. Overall numbers of laptops available are subject to maximum numbers and no other alternatives can be offered.

Check https://www.ncirl.ie/Students/ Student-Services/Support-Services/ Student-Laptop-Fund for updates on the next opening date for applications.

### Assessment

The course will be assessed with a blend of continuous assessments and/ or project work and exams. Please

note that in some instances exams may take place in the daytime, evenings and at weekends.

### Award and Progression

For all streams regardless of specialisation your final award will be a Higher Diploma in Science in Computing as awarded by QQI at level 8 on the National Framework of Qualifications (NFQ). Students who successfully complete this course may be eligible to progress to a major award at level 9 on the NFQ.

### Course Content (Blended Online Delivery) (1 Year)

Semester 1

- · Software Development
- Object Oriented Software Engineering
- Introduction to Databases
- Web Design and Client Side Scripting

### Semester 2

- Computer Architecture Operating Systems and Networks
- Cloud Application Development
- Advanced Client Side Development
- DevOpsSec
- $\cdot$  Career Bridge

### Semester 3

Project

Springboard Careers Advisors will proactively support you to find relevant employment during the course or following completion of the course.



# **Higher Diploma in Science in Data Analytics**

Students can choose a 2 year Blended Online Delivery or 1 year Classroom Delivery options.

Blended Online Delivery (2 Years) Blended Online Delivery - This is an online directed learning course; meaning that time will be split between live online classroom sessions, and tutorials/videos on the College's e-learning system. This split allows for class time to be interactive, practical, and focused, with theory-based content being covered outside of class time with self-paced tutorials/videos, and practical content being

Location: Online	<b>Duration:</b> Sept to Dec 2021, Jan to May 2022, Sept to Dec 2022, Jan to May 2023
Start Date: The course is expected to start in the week	
commencing 20th September 2021.	Applications: Apply online at www.springboardcourses.ie
Indicative Schedule: Online Delivery will take place Monday	Fees: A student contribution fee of €540 is applicable if you are in
& Wednesday 18.00 - 22.00.	employment. No fees applicable if you are unemployed.
	The scheme does not cover any allowance for books and materials.
There will also be three hours of self-directed e-learning	
content. These will not appear on your timetable.	If a student contribution fee is applicable this must be paid in full
content. These will not appear on your infetable.	no later than Friday 19th of November 2021.
Career Bridge classes will be delivered one day per week in	
Semester 2 from 17.00 to 18.00. Day to be confirmed.	

**Classroom Delivery** (1 Year) For programmes described as Classroom Delivery, there will be a mixture of online and on-campus delivery. The college will transition back to classes on campus in accordance with Government guidelines. Students should be prepared for a return to campus and also note in some instances, some elements of online learning may remain in place as required.

Location: IFSC and Online	Duration: Sept to Dec 2021, Jan to May 2022 & May to Aug 2022
Start Date: The course is expected to start in the week	Applications: Apply online at www.springboardcourses.ie
commencing 20th September 2021.	Fees: A student contribution fee of €540 is applicable if you are in
Indicative Schedule Evening:	employment. No fees applicable if you are unemployed. The scheme does not cover any allowance for books and materials.
<i>Group1</i> : Monday, Wednesday & Friday 18.00-22.00 and a number of Saturdays 09.00-18.00.	If a student contribution fee is applicable this must be paid in full no later than Friday 19th of November 2021.
<i>Group 2</i> : Tuesday, Thursday & Friday 18.00 - 22.00 and a number of Saturdays 09.00 - 18.00.	
Career Bridge classes will be delivered one day per week in	

### **Course Description**

The analysis and interpretation of data to address the problems of business and society is an area experiencing massive growth. Diverse areas such as insurance, retail, sports, finance, pharmaceutical and government are all looking for people with skills in analysing 'big data' to help them make more informed decisions.

Semester 2 from 17.00 to 18.00. Day to be confirmed.

The course will furnish students with skills to enter the world of data analytics through building a foundation of strong statistical knowledge, developing problem-solving skills for business analysis, and helping you understand and use business data to deliver better decision making. This higher diploma will give you technical skills in statistics, programming, database management and web mining in addition to business skills such as business analysis that will help you make an impact in a wide range of roles. Students undertaking this course will be exposed to a variety of programming languages/tools that may include R, Python, SPSS, Excel, Weka and RapidMiner.

As a graduate of this course you will be able to:

- · Develop statistical skills to carry out effective data analyses using descriptive and inferential statistics within a business context
- Solve real business problems using generally accepted practices in the field of business analysis supported by the choice and application of appropriate data analysis tools
- · Develop technical skills to process multiple datasets using relevant modelling, programming, data storage, and computational techniques
- Communicate effectively the results of data analysis to both technical and non-technical audiences
- Apply analytical thinking techniques, communication, and interaction skills to support decision making and address business requirements

Apply data-mining and knowledge discovery techniques to process datasets from multiple diverse data sources

### **Career Prospects**

2020/2021 Graduates used the course to upskill or gain employment in roles such as Data Analyst, **Business Analyst, Data Migration** Analyst, Ads Moderation Specialist, **OSM Planner**, Assessment Support Officer.

Companies that hired from 2020/2021 graduates of the HDip in Data Analytics include: Eli Lilly & Co (Data Analyst), TikTok (Ads Moderation Specialist - Risk & Investigation also Quality Analysis & Strategy Evaluation Specialist), AIB (Financial Data Analyst also Business Analyst (Fraud)), Mater Hospital (HIPE Medical Coder), Companion (Business Analyst), Numerix (Software Engineer), AON (Assessment Support Officer), Poppulo (Data Migration Analyst), NTA (Data Analyst), AVS Montessori Ltd. (Collection and Payable Analyst), Edwards Vacuum (OSM Planner).

### Who is the course for?

The programme is particularly suitable for those with numeracy skills. You do not need to have previously studied programming. However, given the timeframe and the amount of technical and statistical content applicants should be prepared to fully commit to the programme.

### Award and Progression

The Higher Diploma in Science in Data Analytics is awarded by QQI at level 8 on the National Framework of Qualifications.

Students who successfully complete this course may progress to a major award at level 9 such as the Masters of Science in Data Analytics.

### **Academic Entry Requirements**

Applicants holding an honours degree (level 8 or equivalent) in any discipline will be considered. Candidates will be able to demonstrate technical or mathematical skills as part of previous learning. Typically holders of more numerate degrees in areas like maths, engineering, architecture, physics or economics are likely to gain higher ranking in selection for the programme. Candidates with other level 8 honours degrees will also be considered and will need to be able to demonstrate technical or mathematical skills in addition to their level 8 gualification. For candidates who do not have a level 8 gualification, the college operates a Recognition of Prior Experiential Learning (RPEL) scheme - meaning applicants who do not meet the normal academic entry requirements, may be considered based on relevant work or other experience.

Students apply for either a 1 year or 2 year delivery. It is not possible to transfer options post registration.

### **Laptop Requirements**

Students are expected to successfully participate in lectures, laboratories and projects using a laptop computer with a substantial hardware configuration. A suitable configuration is 6GB of RAM (8GB or more are recommended); a 64- bit x86 processor (Intel i5 or superior); 250+ GB of hard disk; wifi card; and a recent installed release of Windows operating system. It is the responsibility of the student to ensure their laptop is functioning correctly and that they have full administrator rights to the machine. NCI IT cannot provide support to personal devices.

This course requires internet access you will be required to ensure you have sufficient broadband speed and reliable connectivity from your place of study.

**Free Laptop loan for eligible students on this course:** Students who are eligible for HEA funding for this course may also be eligible for a free laptop provided on a loan basis for the duration of the programme.

This will be a suitable specification machine for completion of the programme but

Course Content (Classroom) (1 Year)

### Semester 1

- $\cdot$  Statistics I
- $\cdot$  Programming For Data Analytics
- $\cdot$  Data Governance

### Semester 2

- · Statistics II
- Databases for Analytics
- Business Intelligence
- $\cdot$  Career Bridge

### Semester 3

- Machine Learning
- Project

Springboard Careers Advisors will proactively support you to find relevant employment during the course or following completion of the course.

> Course Content (Blended Online Delivery) (2 Years)

Year 1 Semester 1 • Statistics I • Programming For Data Analytics

Year 1 Semester 2 · Statistics II

- $\cdot$  Data Governance
- Business Intelligence
   Career Bridge
- · Career bridge

Year 2 Semester 1 • Database for Analytics • Machine Learning

Year 2 Semester 2 · Project

Springboard Careers Advisors will proactively support you to find relevant employment during the course or following completion of the course.

must be returned once you have finished your course. Overall numbers of laptops available are subject to maximum numbers and no other alternatives can be offered.

Check https://www.ncirl.ie/Students/ Student-Services/Support-Services/ Student-Laptop-Fund for updates on the next opening date for applications.

### Assessment

The course will be assessed with a blend of continuous assessment and exams. This varies between modules but typically assessment is 50% continuous assessment and 50% exam. Please note that in some instances exams may take place in the daytime, evenings and at weekends.



# Higher Diploma in Science in Fintech (1 Year)

**Blended Online Delivery** - This is an online directed learning course; meaning that time will be split between live online classroom sessions, and tutorials/ videos on the College's e-learning system. This split allows for class time to be interactive, practical, and focused, with theory-based content being covered outside of class time with self-paced tutorials/videos, and practical content being covered in live online classes with support from lecturers and lab assistants.

Location: Online	Duration: Sept to Dec 2021, Jan to May 2022 and May to Aug 2022.
Start Date: The course is expected to start in the week	
commencing 20th September 2021.	Applications: Apply online at www.springboardcourses.ie
Indicative Schedule Evening: Tuesday, Thursday and Friday 18:00-22.00. There will also be six hours of self-directed learning on the college e-learning system. These will not appear on your	Fees: A student contribution fee of €540 is applicable if you are in employment. No fees applicable if you are unemployed. The scheme does not cover any allowance for books and materials. If a student contribution fee is applicable this must be paid in
timetable.	full no later than Friday 19th of November 2021.
Career Bridge classes will be delivered one day per week in Semester 2 from 17.00 to 18.00. Day to be confirmed.	

### **Course Description**

Finance is a highly regulated industry dominated by banks that resist disruption and change. However, information technology innovations and computing resources availability have revolutionised the financial sector in the last decades. Data analytics, new technologies (e.g., blockchain) and business models (e.g., crowdfunding), and the modernisation of the financial sector regulations are creating opportunities to the emergence of disruptive services and challenger institutions.

This course provides learners with the latest knowledge, skills, and competencies at the intersection of finance and information technology, qualifying learners to enter the rapidly evolving area that is Fintech.

NCI is perfectly placed to deliver an industry-focused programme inspired by its location at the heart of the International Financial Services Centre. The course is completely delivered by faculty and industry practitioners with established experience in the Fintech domain.

### Who is the course for?

This course typically appeals to those who possess a level 8 qualification in any discipline and wish to transfer to a career in Fintech. Note that the course is technical in nature and entails a significant amount of independent study. Given the content and the timescale learners need to have a strong commitment to the course and a willingness to fully engage with the technical content.

### **Career Prospects**

Fintech is an area of rapid growth and significant job opportunity at the intersection of finance and information technology. This programme gives learners the knowledge, skills, and a recognised qualification to avail of these opportunities. This course has been designed in consultation with industry to provide graduates with relevant skills that qualifies learners for roles such as junior business analyst, junior data analyst, junior financial analyst, quantitative first and second tier support engineer, junior blockchain software developer, assistant digital forensic accountant, assistant financial auditor.

### Award and Progression

Higher Diploma in Fintech as awarded by QQI at level 8 on the National Framework of Qualifications. Graduates can progress onto the MSc in Fintech at National College of Ireland.

### **Entry Requirements**

A level 8 degree (2.2 award) or its equivalent in any discipline. Nonstandard applications to the programme will also be considered on an individual basis by the programme board. Nonstandard applications will be also considered on an individual basis. The college operates a Recognition of Prior Experiential Learning (RPEL) scheme – meaning applicants who do not meet the normal academic entry requirements, may be considered based on relevant work or other experience. This may be assessed through an interview and assessment.

### **Laptop Requirements**

Students are expected to successfully participate in lectures. laboratories and projects using a laptop computer with a substantial hardware configuration. A suitable configuration is 6GB of RAM (8GB or more are recommended); a 64- bit x86 processor (Intel i5 or superior); 250+ GB of hard disk; wifi card; and a recent installed release of Windows operating system. It is the responsibility of the student to ensure their laptop is functioning correctly and that they have full administrator rights to the machine. NCI IT cannot provide support to personal devices.

This course requires internet access you will be required to ensure you have sufficient broadband speed and reliable connectivity from your place of study.

### Free Laptop loan for eligible

students on this course: Students who are eligible for HEA funding for this course may also be eligible for a free laptop provided on a loan basis for the duration of the programme. This will be a suitable specification machine for completion of the programme but must be returned once you have finished your course. Overall numbers of laptops available are subject to maximum numbers and no other alternatives can be offered.

Check https://www.ncirl.ie/Students/ Student-Services/Support-Services/ Student-Laptop-Fund for updates on the next opening date for applications.



### **COURSE CONTENT** (Blended Online Delivery)

(1 Year)

### Semester 1

- · e-Finance and Services
- Business Data Analysis
- Data Governance and Cybersecurity

- Semester 2 Financial Data Analysis
- e-Contracts and Payments
- An Introduction to Digital Forensics and Auditing
- · Career Bridge

Semester 3 • Project

Springboard Careers Advisors will proactively support you to find relevant employment during the course or following completion of the course.

# **Higher Diploma in Science in Computing**

### (With specialisation in Artificial Intelligence / Machine Learning) (Blended Online Delivery) (1Year)

All classes are delivered online and will continue in that mode for the remainder of the academic year 2021/22. Delivery online in academic year 2022/23 where applicable, is subject to QQI approval.

### Location: Online

**Start Date:** The course is expected to start in the week commencing 20th September 2021.

Indicative Schedule: Monday, Wednesday & Friday 18.00 - 22.00 and a number of Saturdays 09.00 - 18.00.

Career Bridge classes will be delivered one day per week in Semester 2 from 17.00 to 18.00. Day to be confirmed.

### Duration: Sept to Dec 2021, Jan to May 2022 & May to Aug 2022

Applications: Apply online at www.springboardcourses.ie

**Fees:** A student contribution fee of  $\in$ 540 is applicable if you are in employment. No fees applicable if you are unemployed. The scheme does not cover any allowance for books and materials.

If a student contribution fee is applicable this must be paid in full no later than Friday 19th of November 2021.

### **Course Description**

The course teaches students the computing fundamentals, complemented with detailed knowledge, problem-solving and specialised technical skills required for analysing, designing and developing technical software solutions. The second semester consists of a focused set of modules that are specific to the Artificial Intelligence and Machine Learning specialisation. The course aims to impart awareness and appreciation of relevant topics in the area of specialisation.

The Artificial Intelligence and Machine Learning stream provides learners an understanding and application development of AI-powered products by leveraging expertise in machine learning and computational methods.

### **Career Prospects**

This course is designed to meet the needs of the IT sector and secure future employment for graduates. Companies who have hired 2020/21 graduates from the Higher Diploma in Science in Computing include: AWS (Cloud Support Associate), General Motors (Software Development Apprentice), DocuSign (Associate Solutions Consultant). SEB Life International (QA Analyst), Guidewire (Java Application Support Engineer), Aphix Software (Software Developer), Buddy.ie (Lead Engineer).

### Who is the course for?

This course will appeal to graduates with a level 8 degree from different backgrounds who would wish to change their non-ICT qualification into the computer science field through a level 8 award in computing. Nonetheless, it is noted that the course is technical in nature and will entail a significant amount of independent study. Given the content and the timescale you will need to have a strong commitment to the course and a willingness to fully engage with the technical content.

### **Academic Entry Requirements**

A level 8 degree or its equivalent in a non-cognate discipline. Non-standard

applications will be also considered on an individual basis. 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 extensive relevant work and other experience. This may be assessed through a portfolio of learning, demonstration of work produced, interview and assessment.

### **Laptop Requirements**

Students are expected to successfully participate in lectures, laboratories and projects using a laptop computer with a substantial hardware configuration. A suitable configuration is 6GB of RAM (8GB or more are recommended); a 64- bit x86 processor (Intel i5 or superior); 250+ GB of hard disk; wifi card; and a recent installed release of Windows operating system. It is the responsibility of the student to ensure their laptop is functioning correctly and that they have full administrator rights to the machine. NCI IT cannot provide support to personal devices.

This course requires internet access you will be required to ensure you have sufficient broadband speed and reliable connectivity from your place of study.

### Free Laptop loan for eligible students on

this course: Students who are eligible for HEA funding for this course may also be eligible for a free laptop provided on a loan basis for the duration of the programme. This will be a suitable specification machine for completion of the programme but must be returned once you have finished your course. Overall numbers of laptops available are subject to maximum numbers and no other alternatives can be offered.

Check https://www.ncirl.ie/Students/ Student-Services/Support-Services/Student-Laptop-Fund for updates on the next opening date for applications.

### Assessment

The course will be assessed with a blend of continuous assessments and/or project

work and exams. Please note that in some instances exams may take place in the daytime, evenings and at weekends.

### **Award and Progression**

The Higher Diploma in Science in Computing is awarded by QQI at level 8 on the National Framework of Qualifications (NFQ). Students who successfully complete this course may be eligible to progress to a major award at level 9 on the NFQ.

As graduates from other disciplines and with work experience, learners will have life skills and experiences that they will bring with them on the programme and into a new subject domain. Therefore, they are eligible for a number of roles. They could work in positions that are in-line with their skills but in the ICT sector, or apply ICT knowledge gained through this programme to their current role.



### Artificial Intelligence and Machine Learning specialisation (Blended Online Delivery) (1 Year)

### Semester 1

- $\cdot$  Software Development
- Object Oriented Software Engineering
- Introduction to Databases
- Web Design and Client
- Side Scripting

### Semester 2

- Computer Architecture
   Operating Systems and Networks
- · Artificial Intelligence
- $\cdot$  Statistics
- $\cdot$  Career Bridge

### Semester 3

- Machine Learning Fundamentals
   Block delivery
- · Project Block delivery

Springboard Careers Advisors will proactively support you to find relevant employment during the course or following completion of the course.

Note: The prospective students are required to specify the specialisation they would like to follow when they apply for a place within the Higher Diploma in Science in Computing programme.

# **Higher Diploma in Science in Computing**

### (With specialisation in Blockchain) (Blended Online Delivery) (1 Year)

All classes are delivered online and will continue in that mode for the remainder of the academic year 2021/22. Delivery online in academic year 2022/23 where applicable, is subject to QQI approval.

### Location: Online

**Start Date:** The course is expected to start in the week commencing 20th September 2021.

Indicative Schedule: Monday, Wednesday & Friday 18.00 - 22.00 and a number of Saturdays 09.00 - 18.00.

Career Bridge classes will be delivered one day per week in Semester 2 from 17.00 to 18.00. Day to be confirmed. Duration: Sept to Dec 2021, Jan to May 2022 & May to Aug 2022.

Applications: Apply online at www.springboardcourses.ie

**Fees:** A student contribution fee of  $\in$ 540 is applicable if you are in employment. No fees applicable if you are unemployed. The scheme does not cover any allowance for books and materials.

If a student contribution fee is applicable this must be paid in full no later than Friday 19th of November 2021.

### **Course Description**

The course teaches students the computing fundamentals, complemented with detailed knowledge, problemsolving and specialised technical skills required for analysing, designing and developing technical software solutions. The second semester consists of a focused set of modules that are specific to the Blockchain specialisation. The course aims to impart awareness and appreciation of relevant topics that enable distributed ledger and blockchain technology, and knowledge and skills in developing blockchain-based applications.

The Blockchain stream explores the development of blockchain applications and their implications in other fields by providing a practical understanding of blockchain application development, blockchain foundations and distributed ledger systems.

### **Career Prospects**

This course is designed to meet the needs of the IT sector and secure future employment for graduates. Companies who have hired recent graduates from the Higher Diploma in Science in Computing include: AWS (Cloud Support Associate), General Motors (Software Development Apprentice), DocuSign (Associate Solutions Consultant). SEB Life International (QA Analyst), Guidewire (Java Application Support Engineer), Aphix Software (Software Developer), Buddy.ie (Lead Engineer).

### Who is the course for?

This course will appeal to graduates with a level 8 degree from different backgrounds who would wish to change their non-ICT qualification into the computer science field through a level 8 award in computing. Nonetheless, it is noted that the course is technical in nature and will entail a significant amount of independent study. Given the content and the timescale you will need to have a strong commitment to the course and a willingness to fully engage with the technical content.

### Academic Entry Requirements

A level 8 degree or its equivalent in a non-cognate discipline. Non-standard applications will be also considered on an individual basis. 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 extensive relevant work and other experience. This may be assessed through a portfolio of learning, demonstration of work produced, interview and assessment.

### Laptop Requirements

Students are expected to successfully participate in lectures, laboratories and projects using a laptop computer with a substantial hardware configuration. A suitable configuration is 6GB of RAM (8GB or more are recommended); a 64- bit x86 processor (Intel i5 or superior); 250+ GB of hard disk; wifi card; and a recent installed release of Windows operating system. It is the responsibility of the student to ensure their laptop is functioning correctly and that they have full administrator rights to the machine. NCI IT cannot provide support to personal devices.

This course requires internet access you will be required to ensure you have sufficient broadband speed and reliable connectivity from your place of study.

Free Laptop loan for eligible students on this course: Students who are eligible for HEA funding for this course may also be eligible for a free laptop provided on a loan basis for the duration of the programme. This will be a suitable specification machine for completion of the programme but must be returned once you have finished your course. Overall numbers of laptops available are subject to maximum numbers and no other alternatives can be offered. Check https://www.ncirl.ie/Students/ Student-Services/Support-Services/ Student-Laptop-Fund for updates on the next opening date for applications.

### Assessment

The course will be assessed with a blend of continuous assessments and/or project work and exams. Please note that in some instances exams may take place in the daytime, evenings and at weekends.

### **Award and Progression**

The Higher Diploma in Science in Computing is awarded by QQI at level 8 on the National Framework of Qualifications (NFQ). Students who successfully complete this course may be eligible to progress to a major award at level 9 on the NFQ.

As graduates from other disciplines and with work experience, learners will have life skills and experiences that they will bring with them on the programme and into a new subject domain. Therefore, they are eligible for a number of roles. They could work in positions that are in-line with their skills but in the ICT sector, or apply ICT knowledge gained through this programme to their current role.



### Blockchain specialisation (Blended Online Delivery) (1 Year)

### Semester 1

- Software Development
  Object Oriented Software Engineering
- Introduction to Databases
- Web Design and Client Side Scripting

### Semester 2

- Computer Architecture Operating Systems and Networks
- · Blockchain Foundations
- Distributed Systems
- · Career Bridge

### Semester 3

- Blockchain Application
   Development Block delivery
- Project Block delivery

Springboard Careers Advisors will proactively support you to find relevant employment during the course or following completion of the course.

Note: The prospective students are required to specify the specialisation they would like to follow when they apply for a place within the Higher Diploma in Science in Computing programme.

Quality Sc 9.38 -0.1%

# Higher Diploma in Science in Computing

### (With specialisation in Cybersecurity) (Blended Online Delivery) (1 Year)

This is an online directed learning course; meaning that time will be split between live online classroom sessions, and tutorials/videos on the College's e-learning system. This split allows for class time to be interactive, practical, and focused, with theory-based content being covered outside of class time with self-paced tutorials/videos, and practical content being covered in live online classes with support from lecturers and lab assistants.

Location: Online	Duration: Sept to Dec 2021, Jan to May 2022 & May to Aug 2022.
<b>Start Date:</b> The course is expected to start in the Week Commencing 20th September 2021.	Applications: Apply online at www.springboardcourses.ie
Indicative Schedule: Monday & Wednesday 18.00 - 22.00 and a number of Saturdays 09.00 - 18.00.	Fees: A student contribution fee of €540 is applicable if you are in employment. No fees applicable if you are unemployed. The scheme does not cover any allowance for books and materials.
There will also be four hours of self-directed e-learning content. These will not appear on your timetable.	If a student contribution fee is applicable this must be paid in
Career Bridge classes will be delivered one day per week in Semester 2 from 17.00 to 18.00. Day to be confirmed.	full no later than Friday 19th of November 2021.

### **Course Description**

This programme will equip you with skills to avail of the growing employment opportunities in cybersecurity. This course will appeal to graduates with a qualification in another area who wish to transfer into the world of ICT and to specialise in cybersecurity. The first semester will give you a solid grounding in the computing fundamentals allowing you to move in the second semester onto more specialist cybersecurity modules.

The Cybersecurity stream provides detailed knowledge, problem-solving and specialised technical skills required for application security development, forensics investigation, application/service vulnerability detection and incident detection.

This course is designed with flexibility in mind, allowing learners to work through bespoke video content and guided tutorials the week before class, then polishing their knowledge with live online practical classes. Self-paced content is broken into small manageable chunks, and live sessions are designed for live questions and answers based around industry issues and practical problems.

Note: The prospective students are required to specify the specialisation they would like to follow when they apply for a place within the Higher Diploma in Science in Computing programme. It is not possible to transfer course streams post registration.

### **Career Prospects**

In particular, this specialisation will equip the graduate for entry-level ICT related positions that require digital forensics investigation, application vulnerability detection, and designing and implementing secure applications.

Students who completed this Cybersecurity course have secured roles in: EY (Assistant Manager), ESB (Technical Delivery Lead), CWSI (Service Operations Manager), Veritas Technologies (Senior Business Analyst).

### Who is the course for?

This course will typically appeal to graduates with a level 8 degree from different backgrounds who would wish to change their non-ICT qualification into the computer science field through a level 8 award in computing. Nonetheless, it is noted that the course is technical in nature and will entail a significant amount of independent study. Given the content and the timescale you will need to have a strong commitment to the course and a willingness to fully engage with the technical content.

### **Academic Entry Requirements**

A level 8 degree or its equivalent in a noncognate discipline. Non-standard applications will be also considered on an individual basis.

The college operates a Recognition of Prior Experiential Learning (RPEL) scheme - meaning applicants who do not meet the normal academic entry requirements may be considered based on extensive relevant work and other experience. This may be assessed through a portfolio of learning, demonstration of work produced, an interview and assessment.

### **Laptop Requirements**

Students are expected to successfully participate in lectures, laboratories and projects using a laptop computer with a substantial hardware configuration. A suitable configuration is 6GB of RAM (8GB or more are recommended); a 64-bit x86 processor (Intel i5 or superior); 250+ GB of hard disk; wifi card; and a recent installed release of Windows operating system. It is the responsibility of the student to ensure their laptop is functioning correctly and that they have full administrator rights to the machine. NCI IT cannot provide support to personal devices.

The course requires internet access you will be required to ensure you have sufficient broadband speed and reliable connectivity from your place of study.

*Free Laptop loan for eligible students on this course:* Students who are eligible for HEA funding for this course may also be eligible for a free laptop provided on a loan basis for the duration of the programme. This will be a suitable specification machine for completion of the programme but must be returned once you have finished your course. Overall numbers of laptops available are subject to maximum numbers and no other alternatives can be offered.

Check https://www.ncirl.ie/Students/ Student-Services/Support-Services/Student-Laptop-Fund for updates on the next opening date for applications.

### Assessment

The course will be assessed with a blend of continuous assessment and/or project work and exams. Please note that in some instances the exams may take place in the daytime, evenings and at weekends.

### Award and Progression

For all streams regardless of specialisation your final award will be a Higher Diploma in Science in Computing as awarded by QQI at level 8 on the National Framework of Qualifications (NFQ). Students who successfully complete this course may be eligible to progress to a major award at level 9 on the NFQ.



### **Course Content** (Blended Online Delivery) (1 Year)

### Semester 1

- ·Software Development · Object Oriented
- Software Engineering
- · Introduction to Databases
- •Web Design and Client
- Side Scripting

### Semester 2

- · Computer Architecture **Operating Systems and** Networks
- · Security Principles and Secure Programming
- · Network and Web **Penetration Testing**
- · Digital Forensics
- · Career Bridge

### Semester 3

Project

Springboard Careers Advisors will proactively support you to find relevant employment during the course or following completion of the course.

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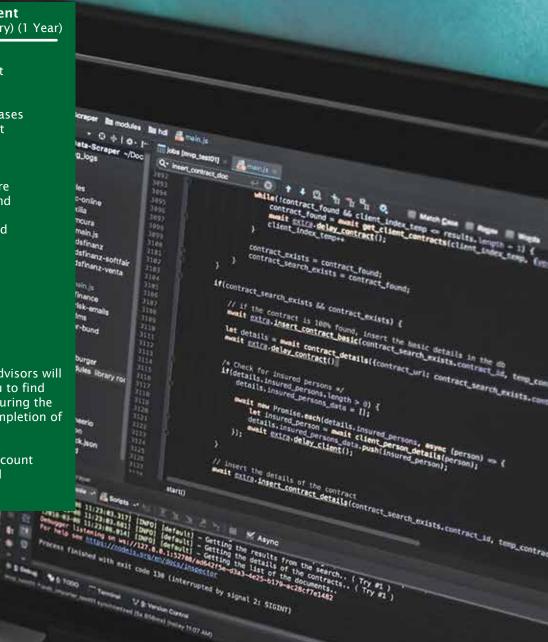
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\*Note that all modules count towards the final award classification.



# Postgraduate Diploma in Science in Data Analytics

### (Blended Online Delivery) (1 Year)

This is an online directed learning course; meaning that time will be split between live online classroom sessions, and tutorials/ videos on the College's e-learning system. This split allows for class time to be interactive, practical, and focused, with theory-based content being covered outside of class time with self-paced tutorials/videos, and practical content being covered in live online classes with support from lecturers and lab assistants.

### Location: Online

**Start Date**: The course is expected to start in the week commencing 20th September 2021.

Indicative Schedule: Monday and Wednesday 18.00 - 22.00.

There will also be four hours of self-directed e-learning content. These will not appear on your timetable.

Career Bridge classes will be delivered one day per week in Semester 2 from 17.00 to 18.00. Day to be confirmed. **Duration:** Sept to Dec 2021, Jan to May 2022 & May to Aug 2022.

Applications: Apply online at www.springboardcourses.ie

**Fees:** A student contribution fee of €650 is applicable if you are in employment. No fees applicable if you are unemployed. The scheme does not cover any allowance for books and materials.

If a student contribution fee is applicable this must be paid in full no later than Friday 19th of November 2021.

### **Course Description**

This course aims to produce technically competent, innovative graduates that will become leading practitioners in the field of data analytics. Upon completion, graduates will be able to:

- · Conduct independent research and analysis in the field of data analytics
- Demonstrate expert knowledge of data analysis and statistics, and the tools, techniques and technologies of data analytics utilised in both technical and business contexts
- Critically assess and evaluate business and technical strategies for data analytics
- Develop and implement effective business and technical solutions for data analytics
- Critically appreciate ethical and data governance issues relevant to data analytics

The course is designed to accommodate those with specific interests in data analytics, whether that may be of a more technically focused or a more business focused nature. All learners will also gain exposure to pertinent legal issues and ethical issues associated with the data analytics field.

Students will gain exposure to product commercialisation issues associated with data analytics. The course is delivered by faculty and practitioners using academic research, industrydefined practical problems, and case studies.

Students undertaking this course will be exposed to a variety of programming languages/tools that may include R, Python, SPSS, Excel, Weka and RapidMiner.

### **Career Prospects**

This course is designed to meet the ever-growing need for deep skills in Big Data/Analytics to fill a skills shortage in Ireland. Companies who have hired 2019 graduates from this course include: Google (Investigations Analyst, Trust & Safety), Bank of Ireland (Risk Analytics Intern), An Pobal (QA Analyst), Electric Ireland (Pricing Analyst), Storm Technology Ltd. (Financial Reporting Consultant), Dunnhumby (Applied Data Scientist), St. Vincent's Hospital (Data Analyst), Real World Analytics (Trainee Data Analyst), ESB (Lead Data Scientist), Version 1 (Managed Services Consultant), City Wonders (Revenue Analyst).

50% of graduates who were in employment successfully transitioned during or following the course. Five graduates who were unemployed attained graduate level employment. Five graduates went on to do the Masters in Data Analytics.

### Who is the course for?

This course is for graduates who have substantial technical and mathematical skills. Graduates from non-STEM disciplines (Science, Technology, Engineering, and Mathematics) that have not developed these skills will need to be able to demonstrate an aptitude for technical and mathematical problem solving.

### **Academic Entry Requirements**

Applicants are normally required to hold a minimum of a level 8 honours qualification (2.2 or higher) or equivalent on the NFQ in a cognate discipline. Candidates will be required to demonstrate technical or mathematical problem solving in previous learning. Graduates from programmes without embedded technical or mathematical problem solving will need to demonstrate these skills in addition to level 8 qualifications (via certifications, qualifications, certified experience and assessment tests).

All applicants must evidence prior programming experience (e.g., via academic transcripts or recognised certification). Standard applicants are holders of technical, numerate degrees who are likely to gain a higher ranking in order of merit for admission to this programme. Normally, these would be applicants who have gained a minimum of a Level 8 qualification in a numerate discipline, typically Computing or Informatics. Such applicants with a level 8 gualification (2.2 or higher) or equivalent are eligible for direct entry. Following computing graduates, we next assign priority to candidates with a background in engineering, mathematics, physics and chemistry. Consideration of these applications is by detailed examination of the content, assessments and syllabi of applicants' primary degrees. Such candidates may also be assessed by interview.

Additionally, applications will be considered for those with a minimum of a Level 8 gualification in a programme with a significant IT and/ or numerate component which could include Management Information Systems, Accounting, Economics, Marketing Management, Sociology and Biology. Programmes in this category may vary greatly in mathematical and information technology content and applications would be assessed by detailed examination of programme content, assessments and syllabi. Candidates with gualifications in this category will be assessed by interview.

### Laptop Requirements

Students are expected to successfully participate in lectures, laboratories and projects using a laptop computer with a substantial hardware configuration. A suitable configuration is 6GB of RAM (8GB or more are recommended); a 64- bit x86 processor (Intel i5 or superior); 250+ GB of hard disk; wifi card; and a recent installed release of Windows operating system. It is the responsibility of the student to ensure their laptop is functioning correctly and that they have full administrator rights to the machine. NCI IT cannot provide support to personal devices.

This course requires internet access you will be required to ensure you have sufficient broadband speed and reliable connectivity from your place of study.

### Free Laptop loan for eligible students on this course:

Students who are eligible for HEA funding for this course may also be eligible for a free laptop provided on a loan basis for the duration of the programme. This will be a suitable specification machine for completion of the programme but must be returned once you have finished your course. Overall numbers of laptops available are subject to maximum numbers and no other alternatives can be offered.

*Check* https://www.ncirl.ie/Students/Student-Services/ Support-Services/Student-Laptop-Fund for updates on the next opening date for applications.

### Assessment

The course will be assessed with a blend of project work and exams. This varies between modules but typically assessment is 50% continuous assessment and 50% exam. Please note that in some instances exams may take place in the daytime, evenings and at weekends.

### **Award and Progression**

Graduates of the Postgraduate Diploma in Science in Data Analytics are awarded an NFQ Level 9 qualification can optionally complete the additional 30 credits required to upgrade their qualification to the MSc in Data Analytics (Not included under Springboard+ additional fee would apply).



### Semester 1

- · Statistics for Data Analytics
- $\cdot$  Database and Analytics Programming

### Semester 2

- $\cdot$  Data Mining and Machine Learning I
- $\cdot$  Modelling, Simulation, and Optimization
- Business Intelligence and Business
   Analytics Elective Modules Group 1
- Data Intensive Architectures • Elective Modules Group 2
- · Career Bridge

### Semester 3

- · Data Mining and Machine Learning II
- · Data Governance and Ethics
- Domain Applications of Predictive Analytics
  - Elective Modules Group 1
- Scalable Systems Programming
   Elective Modules Group 2

Note: Electives are designed to allow students gain specialised knowledge in Data Analytics related areas. Electives may have dependencies, by picking a particular elective in Semester 2, students may restrict themselves to a single choice of elective in Semester 3. For the current suite of electives, dependencies are:

- Elective Modules Group 1: Business Intelligence and Business Analytics -> Domain Applications of Predictive Analytics
- Elective Modules Group 2: Data Intensive Architectures -> Scalable Systems Programming

Electives will run subject to student demand.

Springboard Careers Advisors will proactively support you to find relevant employment during the course or following completion of the course.

Note that all modules count towards the final award classification.

# Postgraduate Diploma in Business in Entrepreneurship

### (Blended Online Delivery) (1 Year)

For programmes described as Blended Online Delivery, there will be a mixture of online and on-campus delivery. The college will transition back to classes on campus in accordance with Government guidelines. Students should be prepared for a return to campus and also note in some instances, some elements of online learning may remain in place as required.

### Location: Online.

Start Date: The course is expected to start in the week commencing 20th September 2021

Indicative schedule: Mondays & Wednesdays 18.00 - 21.00 and a number of Saturdays 09.00 - 17.00.

As a guide there will be approximately three full Saturdays per semester.

Career Bridge classes will be delivered one day per week in Semester 2 from 17.00 to 18.00. Day to be confirmed.

Duration: Sep to Dec 2021, Jan to May 2022 & May to July 2022

Applications: Apply online at www.springboardcourses.ie

Fees: A student contribution fee of €650 is applicable if you are in employment. No fees applicable if you are unemployed. The scheme does not cover any allowance for books and materials.

If a student contribution fee is applicable this must be paid in full no later than Friday 19th of November 2021.

### **Course Description**

If you have ever thought about creating your own enterprise, or if you want to bring more creativity and enterprise to an existing organisation, then this postgraduate business qualification can give you the skills and understanding you need.

This level 9 course gives learners a critical insight into entrepreneurship through a deep exploration of the stages of creativity, innovation, and enterprise. The course will provide a critical insight into the culture of the entrepreneurial firm and the individuals who create such enterprises. It will encourage those with an entrepreneurial mindset to explore new innovations and give them the tools and practical frameworks and resources needed to explore new businesses and create new opportunities.

On this course working with our expert business faculty, you will develop an advanced understanding of the management function across a broad range of business disciplines including enterprise, innovation management, technology, strategy, finance, and law. The programme will provide you with the ability to analyse and critically evaluate management theory and practice. This knowledge will mean you will be better placed to turn your pioneering mindset towards a successful enterprise. On the course you will use the latest techniques and insights as you progress to develop the skills to bring your entrepreneurial concepts further.

Through the modules you will be engaged and be able to appreciate the complexity of the entrepreneurial environment, analyse data to understand the issues and be able to constructively address the problems

they encounter. As a learner you will gain a thorough understanding of management planning and an appreciation of the multiple influences at play on any enterprise. The programme will foster creativity and innovation, whilst providing the tools to months after graduating compared forge that creativity into successful and sustainable enterprises.

### Who Is the course for?

In current times where industries have suffered due to the global pandemic this course is aimed at individuals seeking to develop an entrepreneurial mindset with a view to starting their own business or nurturing this approach within an existing organisation. Although the course has a particular focus on Entrepreneurship it will also be of interest to those who want a postgraduate qualification in business with a focus on the key business and management disciplines. Additionally, the course can provide a transition for graduates from other disciplines to move into the management arena.

### **Career Prospects**

This programme builds on the success of a suite of postgraduate courses in NCI's School of Business. Graduates from NCI's business school have enjoyed strong employment prospects in recent years. This programme had been developed in consultation with industry, with the skills on the programme recognised as important by businesses from all sectors.

### Award and Progression

The Postgraduate Diploma in Business and Entrpreneurship is awarded by QQI at level 9 on the National Framework for Qualifications. Students who successfully complete this course may top up to the MSc in Fintech at National College of Ireland.

According to a recent Graduate Outcomes Survey - Class of 2018 released on June 2020 by the Higher Education Authority, ICT graduates receive the highest earnings nine to the overall younger graduate average based on the analysis of the destinations of students who graduated in 2018.

### **Academic Entry Requirements**

Applicants are required to hold a minimum of a 2.2 honours degree in either a cognate or non-cognate area at level 8 on the National Framework of Qualifications.

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 extensive relevant work and other experience. This may be assessed using a portfolio of learning, demonstration of work produced, and interview.

### Assessment

The course will be assessed with a blend of continuous assessment and/ or project work and exams. Please note that in some instances the exams may take place in the daytime, evenings and at weekends.

### Award and Progression

The Postgraduate Diploma in Business and Entrepreneurship course is awarded by QQI at level 9 on the National Framework of Qualifications. Subject to available places, students can progress to complete a Master of Science in Entrepreneurship on completion of additional Research Methods Module and a Dissertation.

(Not included under Springboard+ -additional fee would apply).

### **Laptop Requirements**

Students are expected to successfully participate in lectures, laboratories and projects using a laptop computer with a substantial hardware configuration. A suitable configuration is 6GB of RAM (8GB or more are recommended); a 64- bit x86 processor (Intel i5 or superior); 250+ GB of hard disk; wifi card; and a recent installed release of Windows operating system. It is the responsibility of the student to ensure their laptop is functioning correctly and that they have full administrator rights to the machine. NCI IT cannot provide support to personal devices.

This course requires internet access you will be required to ensure you have sufficient broadband speed and reliable connectivity from your place of study.

**Free Laptop loan for eligible students on this course**: Students who are eligible for HEA funding for this course may also be eligible for a free laptop provided on a loan basis for the duration of the programme. This will be a suitable specification machine for completion of the programme but must be returned once you have finished your course. Overall numbers of laptops available are subject to maximum numbers and no other alternatives can be offered.

*Check* https://www.ncirl.ie/Students/Student-Services/Support-Services/Student-Laptop-Fund for updates on the next opening date for applications.

### Course Content (Blended Online Delivery) (1 Year)

Please note that module listing is for guidance only and is subject to change. Elective choices are subject to availability.

### Core:

- $\cdot$  Commercial Law
- Enterprise Management
- Marketing Management
- Strategy for Decision Making
- Enterprise Simulation Game
  Management of Innovation
- and Technology
- $\cdot$  Managing the Organisation
- Career Bridge

# Plus one elective, elective choices subject to availability:

- Corporate Governance, Business Ethics and CSR
- International Finance
- · Services Marketing
- International Business
- Managing People
- · Employment Law
- $\cdot$  Doing Business on the Cloud
- · Strategic Project Management
- Strategic ICT & eBusiness

Springboard Careers Advisors will proactively support you to find relevant employment during the course or following completion of the course.

# Postgraduate Diploma in Science in Cloud Computing

(Classroom Delivery) (1 Year)

For programmes described as Classroom Delivery, there will be a mixture of online and on-campus delivery. The college will transition back to classes on campus in accordance with Government guidelines. Students should be prepared for a return to campus and also note in some instances, some elements of online learning may remain in place as required.

### Location: Online

**Start Date:** The course is expected to start in the week commencing 20th September 2021

**Indicative** Schedule: Tuesday & Thursday 18.00 - 22.00 and a number of Saturdays 09.00 - 18.00.

Career Bridge classes will be delivered one day per week in Semester 2 from 17.00 to 18.00. Day to be confirmed.

### Duration: Sept to Dec 2021, Jan to May 2022 & May to Aug 2022

Applications: Apply online at www.springboardcourses.ie

**Fees:** A student contribution fee of  $\notin$ 650 is applicable if you are in employment. No fees applicable if you are unemployed. The scheme does not cover any allowance for books and materials.

If a student contribution fee is applicable this must be paid in full no later than Friday 19th of November 2021.

### **Course Description**

Different analysts estimate the value of the cloud computing market differently. According to "Forecast: Public Cloud Services, Worldwide, 2016-2022" Report published by Gartner-a leading industry analyst- the worldwide public cloud services market is projected to grow 17.5 percent in 2019 to total 214.3 billion USD, up from 182.4 billion USD in 2018. Using a service-oriented classification, ITCandor report - "Cloud services \$246 billion and still growing at 25% "published in 2019 estimates the overall value of the market at 246 billion USD in June 2019, growing at 25% and up from 109 billion USD in 2015. All in all, Cloud Computing has become a dominant technological force in the global economy.

The overall goal of Postgraduate Diploma in Cloud Computing degree is to provide graduates with essential research and development skills in Cloud Computing. Upon completion of this course, graduates will be able to perform independent research that puts them into a position to make informed and critical decisions regarding requirements elicitation and analysis, implementation, evaluation, and documentation in Cloud Computing. The programme team is focused on keeping the content of the course relevant and has created an industrial panel consisting of members from multinational organisations and SME's that are engaged with Cloud Computing.

The programme team has identified a set of core modules worth 50 credits within the Postgraduate Diploma that represent the most relevant skills for learners to progress and get suitable employment after they complete their studies. Learners on the programme will gain in depth knowledge and skills in the core topics of Cloud Computing including:

- $\cdot\,$  Cloud, Fog, and Edge Architectures
- · Cloud Services and Scalable
- Programming
- DevOps and Security
- Data Governance, Compliance, and Ethical

Additionally, learners will be offered to undertake 10 credits by selecting two out of five 5-credit modules on Cloud Machine Learning, Blockchain, Quantum Computing, Innovation I and Innovation II.

### **Career Prospects**

A number and range of opportunities for skilled graduates exist in the Computing/ IT sector in Ireland which have been well documented in reports such as the "Ireland's National Skills Strategy 2025": "The Cross-sectoral skills improve an individual's employability and enable occupational mobility. Among the key cross sectoral skills identified [are] the core technology skills e.g., software developers, cloud, security, networking and infrastructure.

As stated on the IDA website (https:// www.idaireland.com/doing-business-here/ industry-sectors/cloud-computing): "Ireland is rapidly becoming a dominant force in Cloud Computing, building on its international reputation as a leader in ICT. Many key players have already been attracted to Ireland while a wide spectrum of technology companies with Irish operations are actively expanding into and researching the Cloud."

In fact, the IDA considers Cloud Computing an entire sector on par with aviation or pharmaceutical. Many key players have already been attracted to Ireland while a wide spectrum of technology companies with Irish operations are actively expanding into and researching the Cloud. This Irish government has developed a comprehensive strategic approach to develop the sector in recognition of Ireland's potential to become a world leader in Cloud Computing. This focus has already attracted world leaders, such as EMC, Citrix and Dropbox. The skills in demand today are Java, Linux, Amazon Web Services (AWS), Software Development, DevOps, Docker and Infrastructure as a Service (laaS), included in roles such as:

- · Cloud Software Engineer
- · Cloud Sales, Cloud Engineer

- · Cloud Systems Administrator
- Cloud Consultant
- · Cloud Network Engineer
- Cloud Product Manager

Through the Cloud Competency Centre at NCI, this programme has been actively engaged with major cloud multinationals (AWS, IBM, and Microsoft). Additionally, we have received support from indigenous cloud-intensive companies. Recent NCI graduates in cloud computing have gone on to work as technology analysts in Citi, support engineers in SAP, network engineers in HP Enterprise, site & reliability engineers in Asavie, operations engineers in IBM and Workday, Technical Support Engineers in Zendesk, Marketing Cloud Technical Support in Salesforce, among others.

Students will consolidate the acquired knowledge and skills by carrying out a 3-month work placement. There will also be a Career Bridge module that will help the students to enhance their employability skills and improve their overall career prospects.

### Who is the course for?

Graduates of the PGDip Cloud Computing are ethically prepared to undertake management and leadership roles. The programme learning outcomes have been designed to incorporate skills such as Problem Solving, Planning, Time Management, Communication, and Decision Making. The following modules include relevant learning outcomes and continuous assessments (projects) which foster such skills: Cloud Architectures, Cloud Platform Programming, Cloud DevOpsSec, and Blockchain Concepts.

As a graduate of this course, you will be able to:

- Create and deploy commercial multi-tier applications onto multiple (public/hybrid) cloud platforms
- Plan and architect highly-scalable computing/data analytics solutions for business and scientific needs
- Design pattern-based application code to run efficiently in a cloud environment

<sup>·</sup> Cloud Architect

- Evaluate security strategies associated with cloud computing and apply them to ensure the technical sustainability of an organisation
- Perform a migration from a traditional ICT environment to a cloud-based platform
- Manage the process of running an IT department from a cloud environment.

### **Award and Progression**

Graduates of the Postgraduate Diploma in Cloud Computing are awarded an NFQ Level 9 qualification and can optionally complete the additional 30 credits required to upgrade their qualification to the MSc in Cloud Computing. (Not included under Springboard+, additional fee would apply).

### **Academic Entry Requirements**

Applicants are required to hold a minimum of a level 8 honours qualification (2.2 or higher) or equivalent on the NFQ in a cognate discipline. The Postgraduate Diploma in Cloud Computing is aimed at graduates of a systems-oriented computing discipline:

- Computer Engineering: Typically involves software and hardware and the development of systems with software, hardware, and communications integration.
- Computer Science: Relatively broad and with an emphasis on the underlying science aspects.
- Software Engineering Focuses on large-scale software systems, certain ideas from the world of engineering in building reliable software systems.

An assessment and/ or interview may be conducted to ascertain suitability, if necessary, for candidates who do not meet the normal academic requirements. Non-native English-speaking applicants must demonstrate fluency in the English language as demonstrated by IELTS academic score of at least 6.0 or equivalent.

### **Laptop Requirements**

Students are expected to successfully participate in lectures, laboratories and projects using a laptop computer with a substantial hardware configuration. A suitable configuration is 6GB of RAM (8GB or more are recommended); a 64- bit x86 processor (Intel i5 or superior); 250+ GB of hard disk; wifi card; and a recent installed release of Windows operating system. It is the responsibility of the student to ensure their laptop is functioning correctly and that they have full administrator rights to the machine. NCI IT cannot provide support to personal devices.

This course requires internet access you will be required to ensure you have sufficient broadband speed and reliable connectivity from your place of study.

Free Laptop loan for eligible students

**on this course:** Students who are eligible for HEA funding for this course may also be eligible for a free laptop provided on a loan basis for the duration of the programme. This will be a suitable specification machine for completion of the programme but must be returned once you have finished your course. Overall numbers of laptops available are subject to maximum numbers and no other alternatives can be offered.

Check https://www.ncirl.ie/Students/ Student-Services/Support-Services/S tudent-Laptop-Fund for updates on the next opening date for applications.

### Assessment

The programme is assessed by means of continuous, in-semester, assessment and final examination. http://courses.ncirl.ie. Please note that in some instances exams may take place in the daytime and at weekends.

### Course Content

(Classroom Delivery) (1 Year)

### Year 1 / Semester 1

- Cloud Architectures
- · Cloud Platform Programming

### Year 1 / Semester 2

- · Cloud DevOpsSec
- Scalable Cloud Programming
- Blockchain Concepts
- Career Bridge
- Year 1 / Semester 3
  - Fog and Edge Computing
    Data Governance,
  - Compliance and Ethics
  - · Cloud Machine Learning

Springboard Careers Advisors will proactively support you to find relevant employment during the course or following completion of the course.

\*Note that all modules count towards the final award classification. MacBook Ali

# **Postgraduate Diploma in Science in Cybersecurity** (Classroom delivery) (1 Year)

For programmes described as Classroom Delivery, there will be a mixture of online and on-campus delivery. The college will transition back to classes on campus in accordance with Government guidelines. Students should be prepared for a return to campus and also note in some instances, some elements of online learning may remain in place as required.

### Location: IFSC and online.

**Start Date:** The course is expected to start in the week commencing 20th September 2021.

**Indicative** Schedule Monday & Wednesday 18.00 - 22.00 and a number of Saturdays 09.00 - 18.00.

Career Bridge classes will be delivered one day per week in Semester 2 from 17.00 to 18.00. Day to be confirmed. Duration: Sept to Dec 2021, Jan to May 2022 & May to Aug 2022

Applications: Apply online at www.springboardcourses.ie

**Fees:** A student contribution fee of  $\in$ 695 is applicable if you are in employment. No fees applicable if you are unemployed. The scheme does not cover any allowance for books and materials.

If a student contribution fee is applicable this must be paid in full no later than Friday 19th of November 2021.

### **Course Description**

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 while the labour market encounters a severe workforce shortage. As a graduate of the course you will be able to:

- Conduct independent research and analysis in the cybersecurity domain including secure application design, development and testing within a given context e.g. web, cloud computing, and forensic investigation
- Demonstrate practical skills and expert knowledge of technologies and tools that support cryptanalysis, application and service vulnerability detection and patching, security incidents detection and log file analysis
- Critically evaluate the design and implementation and evaluation of a research idea
- Analyse and evaluate the legal, ethical and economic ramifications of developing secure applications and services
- Communicate effectively to a range of audiences in both written and verbal media and undertake selflearning in order to acquire new knowledge

### **Career Prospects**

Cybersecurity issues are becoming a daily struggle for businesses. Recent trends show that the side effects of a global pandemic and cybersecurity statistics reveal a huge increase in hacked and breached data from mobile and IoT devices. Remote working has also ramped up incidences of cyber attacks. The Irish government is seeking to fill the shortage of skilled cybersecurity personnel to protect companies against cybercrime as well as respond to security breaches. 2020/21 graduates from this course secured roles in Bank of Ireland (Cyber Security Analyst), Central Bank of Ireland (Information Security Analyst), Facebook (Forensics & eDiscovery Intelligence Analyst), Irish Life (Automation Developer), Telus (Business Support Analyst), Visma Labs (Security Engineer), Accenture (Cyber Security Analyst), An Garda Siochana (Cyber Crime Unit), Abbott (Senior Cyber Security Analyst), Microsoft (Investigative Analyst).

### Who is the course for?

This course is ideal for ICT professionals or graduates with a level 8 degree on National Framework of Qualifications (NFQ), in computing/ computer science or in a cognate area (STEM) that wish to develop a career as a cybersecurity professional; to take a leading technical or managerial role; to progress faster in their employment or to apply the knowledge in their current role. Candidates who do not hold a computing degree and are currently working in the IT sector may be considered based on relevant academic qualifications or extensive work experience. Candidates are expected to have programming ability.

### Award and Progression

Graduates of the Postgraduate Diploma in Science in Cybersecurity are awarded an NFQ Level 9 qualification can optionally complete the additional 30 credits required to upgrade their qualification to the MSc in Cybersecurity (Not included under Springboard+, additional fee would apply).

### **Academic Entry Requirements**

A minimum of a level 8 primary degree in Computing or a cognate area with a 2.2 award or higher or equivalent on the National Qualifications Framework in Computing or a Cognate area. Candidates are expected to have programming ability. Cognate area means a STEM (Science. Technology, Engineering, and Mathematics) degree that also taught programming/application development related modules. 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 normal academic requirements may be considered based on relevant work and other experience. 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-English speaking applicants must demonstrate fluency in the English language as demonstrated by IELTS academic score of at least 6.0 or equivalent.

### Laptop Requirements

Students are expected to successfully participate in lectures, laboratories and projects using a laptop computer with a substantial hardware configuration. A suitable configuration is 6GB of RAM (8GB or more are recommended); a 64- bit x86 processor (Intel i5 or superior); 250+ GB of hard disk; wifi card; and a recent installed release of Windows operating system. It is the responsibility of the student to ensure their laptop is functioning correctly and that they have full administrator rights to the machine. NCI IT cannot provide support to personal devices.

This course requires internet access you will be required to ensure you have sufficient broadband speed and reliable connectivity from your place of study.

**Free Laptop loan for eligible students on this course**: Students who are eligible for HEA funding for this course may also be eligible for a free laptop provided on a loan basis for the duration of the programme. This will be a suitable specification machine for completion of the programme but must be returned once you have finished your course. Overall numbers of laptops available are subject to maximum numbers and no other alternatives can be offered.

Check https://www.ncirl.ie/Students/ Student-Services/Support-Services/ Student-Laptop-Fund for updates on the next opening date for applications.

### Assessment

The programme is assessed by means of continuous, in-semester, assessment and final examination. http://courses.ncirl.ie. Please note that in some instances exams may take place in the daytime and at weekends.

### Course Content Classroom Delivery (1 Year)

The course offers two specialisations: Forensics and Cloud Security. Learners must select one specialisation. Specialisations will only run due to student demand.

### Semester 1

- · Security Fundamentals
- $\cdot$  IT Law and Ethics
- Network Security and Penetration Testing

### Semester 2

- · Secure Programming for Web
- · Cryptography
- Malware Analysis
- · Career Bridge

### Semester 3

- $\cdot$  Research in Computing
- Secure Programming for
- Application Development
- · Cloud Security
- Cloud Security Elective
- Incident Response and Analytics
- Forensic Elective
- $\cdot$  Forensics and eDiscovery

Electives will run subject to student demand.

Springboard Careers Advisors will proactively support you to find relevant employment during the course or following completion of the course.

\*Note that all modules count towards the final award classification.

# Postgraduate Diploma in Science in Fintech

### (Classroom Delivery) (1 Year)

For programmes described as Classroom Delivery, there will be a mixture of online and on-campus delivery. The college will transition back to classes on campus in accordance with Government guidelines. Students should be prepared for a return to campus and also note in some instances, some elements of online learning may remain in place as required.

and Information Assurance

Award and Progression

College of Ireland.

in Fintech is awarded by QQI at

for Qualifications. Students who

According to a recent Graduate

level 9 on the National Framework

· Cybersecurity and IT Auditing

· Data Analysis and Visualisation

The Postgraduate Diploma of Science

successfully complete this course may

top up to the MSc in Fintech at National

Location: IFSC and online.

**Start Date:** The course is expected to start in the week commencing 20th September 2021.

Indicative Tuesday & Thursday 18.00 - 22.00 and a number of Saturdays 09.00 - 18.00.

Career Bridge classes will be delivered one day per week in Semester 2 from 17.00 to 18.00. Day to be confirmed. Duration: Sept to Dec 2021, Jan to May 2022, May to Aug 2022

Applications: Apply online at www.springboardcourses.ie

**Fees:** A student contribution fee of  $\in$ 650 is applicable if you are in employment. No fees applicable if you are unemployed. The scheme does not cover any allowance for books and materials.

If a student contribution fee is applicable this must be paid in full no later than Friday 19th of November 2021.

### **Course Description**

Finance is a highly regulated industry that resists disruption and change. However, information technology innovations and computing resources availability have revolutionised the financial sector in the last decades. Data analytics, new technologies (e.g., blockchain) and business models (e.g., crowdfunding), and the modernisation of the financial sector regulations are creating opportunities to the emergence of disruptive services and challenger institutions.

This course provides learners with the latest knowledge, skills, and competencies at the intersection of finance and technology, allowing them to exploit opportunities in this rapidly evolving area. NCI is perfectly placed to deliver an industry-focused programme inspired by its location at the heart of the International Financial Services Centre. The course is completely delivered by faculty and industry practitioners with established experience in the Fintech domain.

### Who is the course for?

This interdisciplinary course will appeal to graduates of finance, computing, and business seeking to enter the area of Fintech; and industry practitioners seeking to gain insightful experience and exposure to the principles of Fintech, as well as data analytics and emerging technologies.

Learners on the programme will gain indepth knowledge and skills in the core topics of Fintech including:

- Financial Markets and Financial Services Regulation
- · Financial Data Analysis
- · Blockchain Technologies
- · Governance, Compliance,

with Outcomes Survey - Class of 2018 1d released on June 2020 by the Higher

Education Authority, ICT graduates receive the highest earnings nine months after graduating compared to the overall younger graduate average based on the analysis of the destinations of students who graduated in 2018.

### **Entry Requirements**

A level 8 degree (2.2 award) or its equivalent in one or more of the following domains: computer science, finance, business, or economics. Cognate disciplines will also be considered. Note that applicants lacking both a clear financial and technology component may still be eligible but are subject to review.

The college operates a Recognition of Prior Experiential Learning (RPEL) scheme, meaning applicants who do not meet the normal and academic entry requirements, may be considered based on relevant work or other experience. Non-English speaking applicants must demonstrate fluency in the English language as demonstrated by an IELTS academic score of at least 6.5 or equivalent.

### Laptop Requirements

Students are expected to successfully participate in lectures, laboratories and projects using a laptop computer with a substantial hardware configuration. A suitable configuration is 6GB of RAM (8GB or more are recommended); a 64- bit x86 processor (Intel i5 or superior); 250+ GB of hard disk; wifi card; and a recent installed release of Windows operating system. It is the responsibility of the student to ensure their laptop is functioning correctly and that they have full administrator rights to the machine. NCI IT cannot provide support to personal devices.

This course requires internet access you will be required to ensure you have sufficient broadband speed and reliable connectivity from your place of study.

Free Laptop loan for eligible students on this course: Students who are eligible for HEA funding for this course may also be eligible for a free laptop provided on a loan basis for the duration of the programme. This will be a suitable specification machine for completion of the programme but must be returned once you have finished your course. Overall numbers of laptops available are subject to maximum numbers and no other alternatives can be offered.

Check https://www.ncirl.ie/Students/ Student-Services/Support-Services/ Student-Laptop-Fund for updates on the next opening date for applications.

### Assessment

The programme is assessed by means of continuous, in-semester, assessment and final examination. http://courses.ncirl.ie. Please note that in some instances exams may take place in the daytime and at weekends.

### **Course Content** Classroom Delivery (1 Year)

### Semester 1

- · Financial Markets
- · Data Analytics

### Semester 2

- Data Governance and Compliance
   Information Assurance and
- Cybersecurity
- · Financial Analysis
- · Career Bridge

### Semester 3

- Blockchain Technologies
  Contemporary Topics in Fintech
  Digital Forensics and Auditing (Elective)
- · Crowd Markets (Elective)

Electives will run subject to student demand.

Springboard Careers Advisors will proactively support you to find relevant employment during the course or following completion of the course.

\*Note that all modules count towards the final award classification.

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### **APPLICATION AND ELIGIBILITY**

### Why Choose NCI

NCI has almost 70 years' experience working with part-time students. All programmes under Springboard+ are accredited by QQI, so they are recognised nationally and internationally.

The College provides a supportive environment and tailored facilities for students returning to education after a number of years. In particular for Springboard+ a dedicated programme leader will look after the organisation of your course and make sure all your needs are met.

All our programmes are practical and are delivered by industry experts.

We benefit from a convenient location with the LUAS just outside the door and we are minutes from Connolly Station. Career Bridge, Work Placement, industry based projects and a dedicated team of career development professionals will work with you to help you gain the most from your qualification and get back into the workforce, or develop your career.

### Laptop and Internet Access Requirements

It is the responsibility of the student to ensure they have a computer device of sufficient specification to complete their course and adequate internet connectivity where appropriate.

### **Restrictions Regarding Previous Participants**

If you have taken more than three courses in any five-year period, you won't be eligible. You will be able to take a Springboard+ programme again after 2 years.

If you have failed to successfully complete more than two Springboard+ courses at any time in the past, you won't be eligible to apply again.

If you have taken two courses in the past but were unsuccessful in the second, you are ineligible to apply again.

You should also note that priority will be given to applicants who are long-term unemployed and to those who have not taken a Springboard+ course before.

### **Eligibility for Funding**

Priority in the awarding of places must be given to those who are long-term unemployed as well those who have not previously undertaken a Springboard+ course

Fees: The Springboard+ scheme allows for 100% funding of the tuition cost of these programmes if you fall into one of the below categories;

- Unemployed and in receipt of an eligible DEASP payment or signing for credits
   Returners
- Previously Self-Employed
- Covid-19 Pandemic Unemployment Payment
   (PUP)

For those in employment a student contribution fee is required. This is payable by the participant and must be paid in full by 19th November 2021. The fees quoted are the student contribution for the full course. These can be paid on the NCI website, see www.ncirl.ie/ NewStudents for details. Applicants can also have their employer fill out a sponsorship form indicating the employer's commitment to pay the student contribution element. Completed sponsorship forms should be returned to fees@ncirl.ie within two weeks of accepting your place on the course.

Returners and employed applicants: In addition to the academic entry requirements, returners and employed applicants, will be required to meet nationality and residency requirements for Springboard+ courses.. Please see 'Springboard+ Participant Eligibility' at www.springboardcourses.ie/faq for more information. 'Returners' are defined as people that have been out of the work environment for a number of years due to childcare or other caring obligations and have a previous history of employment but may require upskilling, reskilling or cross-skilling to transition back to the workforce. More information can be found at 'Am I Eligible for a Springboard+ Course' at www.springboardcourses.ie/eligibility

Two year part-time courses: If you are unemployed and in receipt of a jobseekers payment (including Farm Assist and Qualified Adults of Working Age) you are not eligible for the two year ICT Conversion Courses. Please see

www.springboardcourses.ie/eligibility.

Students with an unemployed status have limitations on our Higher Diploma ICT programmes .Two year part-time courses: If you are unemployed and in receipt of a jobseekers payment (including Farm Assist and Qualified Adults of Working Age) /Covid 19 PUP payment/ BTEA you are not eligible for the two year ICT Conversion Courses. Please see www.springboardcourses.ie/eligibility.

ICT 1 Year full-time mode of study programmes : NCI's 1 Year Higher Diploma programmes are delivered in the evening with a full time mode of study. If you are unemployed and in receipt of a jobseekers payment (including Farm Assist and Qualified Adults of Working Age) you are not eligible if you have been in receipt of this payment for less than 9 of the previous 12 months from your course commencement. If you are on a Covid-19 PUP payment, funding eligibility is assessed on a case by case basis and you are required to move to either Jobseekers or Back to Education for funding purposes. This is dependent upon your situation and you will be assessed for funding based on HEA guidelines. Please email springboard@ ncirl.ie for the latest update or check www. springboardcourses.ie

Level 9 Postgraduate Courses: These courses are available to both the employed and the unemployed however NCI must prioritise those in receipt of a social protection payment and those categorised as 'returners' so that they can upskill and reskill and reenter the workforce. Therefore, a number of places will be reserved for these on our Level 9 postgraduate courses. Please note that to participate in NFQ Level 9 (postgraduate) course, a period of at least one year must have elapsed since completing a full time undergraduate degree course leading to a major award at level 8 on the NFQ. Unemployed applicants must be Department of Employment Affairs and Social Protection (DEASP) customers and in receipt of an eligible DEASP payment, signing for social insurance contribution credits or be previously self-employed to be eligible for a funded place on a Springboard+ programme.

### Application

Please feel free to contact us on 1850 221 721 (Option 4) to enquire about an application. Alternatively you can email springboard@ncirl.ie. We are not permitted to accept applications directly from candidates as all Springboard and ICT Skills applications must be made online through www.springboardcourses.ie. Please note that all applicants must meet NCI's academic admission criteria for any courses and as per previous years all courses and specialisations run subject to numbers. Eligibility for funding does not infer eligibility for this course.

### Places Available:

Demand for these courses is expected to exceed the number of available places and places are limited. Priority in the awarding of places must be given to those who are longterm unemployed as well those who have not previously undertaken a Springboard+ course. Decisions are communicated through www.springboardcourses.ie. If you do not meet the normal academic entry requirements please do not delay in applying as you may be required to submit additional documentation and/ or participate in an interview. A cut-off date for applications will also apply and this will be posted on the www. springboardcourses. ie website when you make an application to NCI. This date is subject to change based on programme demand and programmes may close at any time without warning when capacity is reached.

### **Department of Social Protection Payments**

We advise that all payment queries should be addressed to your local Intreo, Social Welfare Office to confirm continuation of a Social Protection payment.

More information can be found at 'Social Protection FAQs' www.springboardcourses.ie/faq

# Course Funding in the Event of Obtaining a Job

Should you obtain a job during your course of study the funding will remain in place for the duration of your course. The timing of the classes is aimed to allow people to work and study at the same time. If you do gain employment during the course please contact us to see how we can best facilitate you completing your course. If you do not qualify under Springboard+ you may apply directly to National College of Ireland for our fee paying courses at admissions@ncirl.ie

### For Further Information Contact

Tel: 1850 221 721 (Option 4) Web: www.ncirl.ie Email: springboard@ncirl.ie

# Career Bridge Part of the NCI Careers & Employability Service

NCI Career Development & Employability Office won the AHECS "Excellence in Employability Award" for 2013, 2014, 2016, 2018, 2020 (Highly Commended) and The Education Awards 2021 for Career Impact Strategy.



Órla O'Sullivan MSc - Órla is a Career Coach and has worked as a Careers Advisor with NCI for over 6 years. She has an MSc Guidance & Counselling from DCU where she also worked as a Career Advisor. With skills in Life Coaching (QQI Level 6) and a Postgrad in Learning & Teaching she brings a student centred approach to her role and, as a career changer herself, enjoys working with Springboard and ICT Skills students.



**Conor Nugent** - Conor works as a Careers Advisor with the Springboard and MSc programmes. His background as a Financial Recruiter with Robert Walters in Dublin allows him to bring valuable insights into the recruitment process in Ireland across the Financial Services, Tech, Pharmaceutical, Logistics and Construction sectors. Conor is himself a career changer, having transitioned from secondary school teaching several years ago and brings a level of understanding to the process of reimagining your career path, as well as leaning on his teaching experience to bring a student focussed approach to Career Bridge classes.

### **Career Bridge**

Part of the success of your Springboard course to meet your career goals is the Career Bridge module which is integrated into your programme. Practical career management classes take place in your 2nd Semester one day a week between 5 p.m. and 6 p.m. In addition, employer events relevant to your course and career are organised throughout the year of your studies. This module is designed to complement the technical skills of your course and provide you with the skills employers seek such as identifying your strengths and addressing skills gaps, developing your online and offline brand, networking effectively and managing your career path.

### What Career Bridge will offer you:

- · Individualised career counselling and development.
- · Individualised, strategic career planning addressing advancement and transition.
- · Professionalised, targeted CVs and high impact applications.
- · Expert interview coaching.
- · Career networking and personal branding strategies.
- · Practical skills workshops and one to one consultations.
- · Online effective career resources available 24/7.
- Access to the NCI Weekly Vacancy newsletter and the LinkedIn Group Tech Network for Students and Graduates for jobs and events

The NCI Career Development and Employability office works in partnership with employers to support students in both identifying and achieving their future ambitions. Our career service has won the National AHECS award for Employability for 5 out of the last 9 years.

### The partnerships with employers are in the form of:

- · Interview marathons
- · Sector-specific mock interviews with key employers
- · Targeted On-Campus Careers Fair
- Alumni networking events
- $\cdot$  Technical and whiteboard simulations
- · Employer presentations
- $\cdot$  Skill- and competency-focused workshops

Career Bridge, similar to the other modules on the programme, will have learning outcomes relevant to your career aspirations.

### **Employment and Placement**

We work proactively and collaboratively with you and industry partners to obtain relevant employment during or within 3 months of completing your course. A graduate or entry level position, or indeed relevant employment acts as the work placement requirement. If a work placement is required, your Careers Advisor will actively support you in identifying a suitable work placement through your network.

Active engagement with your Careers Advisor and with the Career Bridge module markedly increases the likelihood of a successful career transition or progression. We look forward to working with you to realise your career goal.

# What springboard students say...

I really like the fact that the college offers a service to help you find work after you're finished your course. The classes help you to build an employable version of yourself and the personal help you get improves your chances of getting a job.

Student of HDip in Science in Computing (Software Development)

Career Bridge is a great resource to have in the college. Even though you won't feel like using it until the second semester, it's a really good idea to engage with the service early on to take advantage of the services they offer. All in all, highly recommended... *Barry, Postgrad in Data Analytics* 

The student must be proactive and take accountability for their own job search and if they do the staff in the careers section are genuinely fantastic. *Student of HDip in Science, Data Analytics* 

Thanks to a great career advisor, ...... I was able to get on the internship within the IT company and at the end of the internship was offered a job in that company. *Joanna*, *HDip in Science in Web Technologies* 

The course was really enjoyable and the emphasis on careers rather than just exam results sets NCI apart from any other institutions I've attended. *Student of HDip in Science in Computing (Software Development)* 

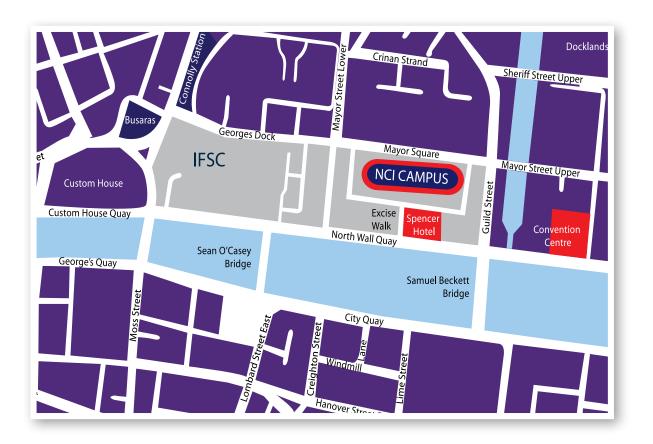
Students should develop themselves technically but also awareness of what prospective employers look for should help you adapt your approach to a job application accordingly. *Student of HDip in Science in Computing (Cloud stream)* 

Participate in full. The course is very rewarding and there is great support. NCI listens and is willing to change if things are not working out. Career Bridge is excellent and you should attend the classes even if you have a solid job.

Toby, HDip in Science Data Analytics

I believe that it was this kind of integration between course and career guidance that led to my success at NCI. I was a gardener by trade and now I'm a Software Test Automation Engineer in Java. I get well paid and now I have a well-paid career ahead of me

Robert, Software Development graduate





# **INFORMATION EVENINGS**

Speak to the lecturers

Thursday 15th July, 5 to 7pm Thursday 12th August, 5 to 7pm Saturday 28th August, 11am to 1pm Wednesday 8th September, 5 to 7pm

National College of Ireland Mayor St., IFSC, Dublin 1

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