# Higher Diploma in Science in Computing

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

This is an online learning course that features Directed E-Learning activities such as live online classroom sessions and tutorials/ videos on the College's e-learning system. This allows for online 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 22nd January 2024**

**Indicative Schedule Evening: Tuesday and Thursday 18.00 - 22.00**

There will be up to five hours self-directed learning through the college e-learning system weekly. 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: January to May 2024, May to August 2024 and September to December 2024.**

**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 8th March 2024.

### 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 non-technical 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

This programme has a BYOD (Bring Your Own Device) policy.

Specifically, students are expected to successfully participate in lectures, laboratories and projects using a laptop computer with a substantial hardware configuration. A suitable configuration is 8GB of RAM (16GB are recommended); a modern 64-bit x86 processor (Intel i5 or superior); 250+ GB of available space in hard disk; WiFi card; and a recent version of Ubuntu, macOS or Windows. 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 does not provide support for 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.

*FreeLaptoploanforeligiblestudentsonthis 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
(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 Clientside Development
- DevOpsSec
- 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.