



COMPUTER SCIENCE

Why Study CS?

- We use the Internet, social media, smart devices, and other technology every day.
- Wouldn't it be great to learn how they really work?

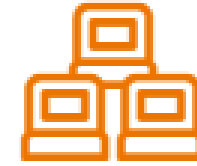
Computer Science graduates are in demand

- Ireland is a global technology hub (8 of the top 10 global software companies are in Ireland)
- Ireland is the fastest growing country in Europe for tech workers
- Shortfall of graduates expected over the next 10 years
- Computational Thinking skills are required in every career



8 OF THE TOP 10

Global Software
Companies



9 OF THE TOP 10

US Technology
Companies



TOP 3

Global Enterprise
Software Companies



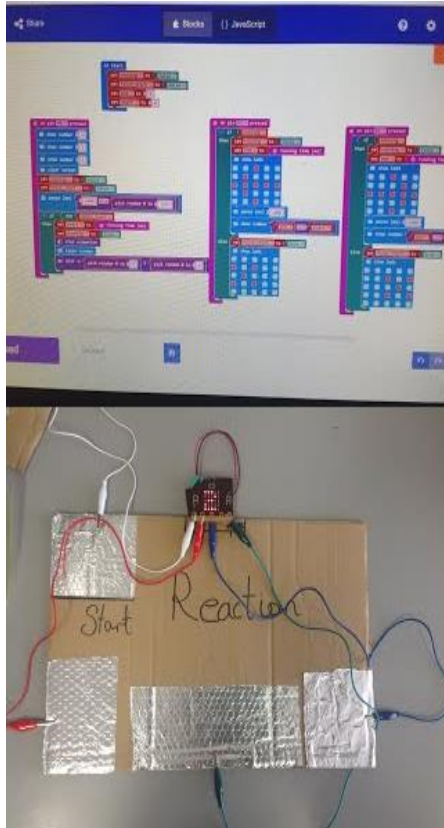
4 OF THE TOP 5

IT Services
Companies

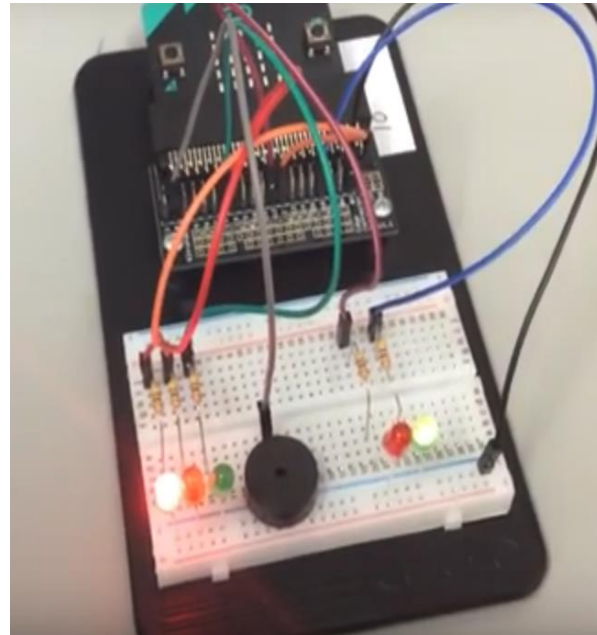
What students will learn

- How to analyse problems in computational terms
- Programming languages – Python, HTML, Javascript, BlockCode
- Creative design, build web pages, digital animations, simulations, games, apps and robotic systems
- Computers in Society - Ethical, environmental and technological aspects of Computer Science

Example of Student Projects



**Reaction
Game**



**Embedded System
– Traffic Lights**



**Interactive
Website**



How will the subject be taught and examined?

- Mixture of theory and practical classes
- Programming / Project Work / Continuous Assessment
- 4 Projects (ALTs) in Teams
- Ordinary level and Higher level
- Assessment will be 30% on a final year project
- 70% in an online exam in May of 6th year (Coding and Theory)

Computer Science should appeal to a student

- who likes to solve problems
- is curious how technology works
- who wants to learn how computers are changing the world.
- who wants to gain skills that will help in any career goal—business, art, engineering, policy, medicine, etc.

While Higher Level Maths is not a requirement, a successful student will be comfortable with Problem Solving