



## Opportunity to Convert to Software Engineering

**ICT Ireland Skillnet** with **NUI Maynooth** is offering a unique short-term high level conversion programme for unemployed engineering graduates to equip them for fast-track entry to a job in software engineering. The programme is sponsored by world class companies with a current need for software engineers who will supply excellent work experience placements as part of the course.

**Target Groups:** Unemployed Engineering or Science Graduates who would like to pursue a career in software engineering. (Programme is only open to Irish or EEA nationals who are unemployed or recent graduates who have not yet become employed).

**Entry requirements:** A level 8 degree in a range of engineering and related disciplines **or** those with a level 7 award, with relevant experience. Participants who do not meet the minimum entry requirements but who have significant work experience in engineering, manufacturing or construction will be considered for entry through recognition of prior learning.

**Content:** This is a practice based course designed by industry experts to equip participants with the skills of a software engineer and enable participants to gain direct entry to employment in this field. It will be divided into a software project, work placement and taught modules as follows:

- Technology Fundamentals (Computer architecture, operating systems, data representation, data structures & processing, fundamentals of programming)
- Software Design Fundamentals (Programming languages, Development Environments, Development Lifecycles including Agile methodologies)
- Software Development Practice (Detailed exposure to a specific Programming Language and Development Framework e.g. Java/ Eclipse at the implementation level. To include a formal Programming Practice certification - Oracle Certified Java Programmer)
- Web Technologies (Tools & Practices for Web application development, GUI frameworks and visualization principles)
- Database Systems (DBMS types and implementation concerns, data management and data mining Tools & Practices)

**Cost:** The course is free to participants who may also retain their full social welfare benefits while attending.

**Award:** Successful participants will receive a Higher Diploma in Software Engineering (Level 8-60 ECTS credits).

**Duration:** Tuition will be provided over a 6 month period followed by 8 weeks work placement in participating companies which will be organised in advance by ICT Ireland Skillnet.

**Progression:** Graduates of this programme may be fast-tracked towards the MSc in Applied Software Technology which is also run by the ICT Ireland Skillnet. They will also be eligible to pursue other postgraduate options and seek direct employment in the ICT sector in Ireland.

**Apply...** by sending an email outlining your qualifications and experience to [susan.kelly@ictirelandskillnet.org](mailto:susan.kelly@ictirelandskillnet.org) Places are limited to 25 initially. Selected applicants will be asked to complete a Full Application Form and may be invited for an assessment and interview process in a sponsoring company.

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The ICT Ireland Skillnet is a group of companies within the sector operating a broad based training programme under the aegis of the ICT Ireland Federation with support from the companies and Skillnets.

[www.ictirelandskillnet.org](http://www.ictirelandskillnet.org)