



Masters in Applied Software Technology DT340A

Who should study this programme:

The **ICT Ireland Skillnet** in association with **Dublin Institute of Technology** has launched a unique, one-year, full-time, intensive Masters degree in Applied Software Technology which is free to students and offers full time employment with **LM Ericsson** upon satisfactory completion. The programme is supported by **Skillnets Ltd** through its Job Seekers Support Programme which is funded from the National Training Fund through the Department of Education and Skills.

As well as the opportunity to gain an MSc (with additional technical training) students will also obtain unrivalled work experience. On satisfactory completion participants will take up a full-time and permanent position with **LM Ericsson** whose Product Development Unit in Athlone specialises in the provision of Operations Support Systems (OSS) to Telecom Operators using advanced Data and Event Management and Visualization techniques.

Entry requirements:

Candidates should have a 2.1 Honours Degree in a relevant cognate discipline. This includes (but is not limited to) Computer Science, Software Engineering, Electronic Engineering, Data Networking etc. but qualified applicants from any discipline with significant content in Maths, Problem Solving, Logic and Critical Thinking will receive positive consideration. Each application will be considered on its individual merits.

Entry is confined to graduates who are Irish or EEA nationals, not currently in employment. Candidates may be in receipt of unemployment assistance or not as the case may be.

Entry to the programme is on the basis of a competitive selection process based on criteria which are available upon request. Prospective candidates may be requested to attend for interview, undertake tests or other selection procedures. ICT Ireland Skillnet has sole discretion and is the final arbiter on who will participate. Making an application is not a guarantee of selection. Applications are treated in strictest confidence. In making an application, applicants accept that no further information or feedback will be provided to them, or any other party, regarding the selection process, or any reasons for their non-selection.

Aims of the programme:

The programme offers an integrated approach to delivering end to end software development skills. From computing fundamentals and software design to implementation and testing, the entire lifecycle of software development is covered. It focuses on the practical problem-solving skills required for computer programmers. Programme participants will also gain an integrated and critical knowledge of the skills and particular technologies widely used in the industry today.

Programme learning outcomes

On successful completion of the programme the learner will:

- Demonstrate an advanced knowledge of the theory and practice of software development, both in the context of specific functional areas and in regard to the integration of advanced information technology tools and techniques
- Acquire the specialist knowledge to design, develop, deploy and maintain to appropriate levels information technology solutions in an application environment.

Outline Content:

The structure of the programme is dictated by the hours required for a level 9 programme, along with the requirement of work based placement and project work. Formal lectures are supplemented by practical laboratory classes. Individual and group-based exercises and assignments make up part of the continuous assessment that accompanies the majority of modules.

Modules include:

- Technology Fundamentals
- Computational Mathematics
- Software Design and Testing
- Object Oriented Software Development
- Computer Networks
- Database Systems
- Web Technologies
- Distributed Systems & Security
- Systems Administration & Virtualization
- Self Management & Teamwork
- Technology Fundamentals

Work based sections include:

- In-company internship
- Supervised in-company Application Development Project

Additional Certification

The programme includes the delivery of content to support students in obtaining Certification in technical qualifications especially Sun Certified Java Programmer, and a certification in IP Networking. Exams for these certified courses will take place externally in appointed exam centres.

Duration and attendance: 1 year full-time programme

Career Prospects: Guaranteed full-time employment with LM Ericsson upon successful completion of the programme.

Applications:

Send your CV to susan.kelly@ictirelandskillnet.org.

Applications will be accepted throughout the early part of 2012 with a continuous screening and selection of candidates.

The ICT Ireland Skillnet is funded by member companies and the Training Networks Programme, an initiative of Skillnets Ltd. funded from the National Training Fund through the Department of Education and Skills.

