The Master of Science in Innovative Technology Engineering degree aims to produce graduates with strong skills in critical thinking and with a creative attitude necessary to instigate future developments in the field of Engineering Technology. The student will attain an academic mastery in their field of specialisation while developing a broad knowledge of other related fields and how these converge.
**Programme Outline**

The Masters in Innovative Technology Engineering degree aims to produce graduates with strong skills in critical thinking and with a creative attitude necessary to instigate future developments in the field of Engineering Technology. The student will attain an academic mastery in their specialisation field while developing a broad knowledge of other related fields and how these converge. The student will embark on a programme that will assess and analyse a number of emerging technologies and the developing potential for the convergence of these technologies. The course aims to prepare students for a rewarding career in industry or academic research. In addition, the course will facilitate for them the development of a set of personal and professional attributes that will allow them greater flexibility in the development of their own career options. The programme is designed to develop the student’s knowledge and skills in strategies for innovation management, product design and development and optimum routes to market. The student will also carry out post-graduate level research of industrial relevance in selected topic areas. The Masters degree requires successful completion of six mandatory modules and four out of eight elective modules. The student must also complete an applied programme consisting of a Research Dissertation and an Industrial Research seminar series.

**Programme Structure**

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<th>Semester 1</th>
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<td>Strategic Technological Innovation</td>
<td>Convergent Technologies</td>
<td>Dissertation</td>
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<td>Biomedical Science</td>
<td>Professional Development &amp; Professional Practice</td>
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<td>Mechanics of Materials</td>
<td>Technology Management</td>
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<td>Industrial Research 1</td>
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<td>Nanotechnology</td>
<td>Cognitive Technology (elective)*</td>
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<td>Control Engineering (elective)*</td>
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<td>Quality Management &amp; Regulatory Affairs (elective)*</td>
<td>New Product Development Strategy (elective)*</td>
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<td>Inventive Problem Solving (elective)*</td>
<td>Biomedical Engineering (elective)*</td>
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<tr>
<td>Entrepreneurship (elective)*</td>
<td>Green Technology (elective)*</td>
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</table>

*Elective Modules – a selection of these will be offered each semester*

**Career Opportunities**

Career opportunities for graduates of this programme can be found in the: Medical Devices, Pharmaceutical, Green Technology, Information and Communications Technology, New Business Development and Academic Research sectors.

**Typical job functions include:** Design Engineer, Research Engineer, Project Engineer, Project Manager, Technical Manager, New Technologies Manager, New Product Development Manager, New Business Venture consultant and many others.

**Engineers Ireland**

The MSc in Innovative Technology Engineering programme is at NFQ Level 9 and has been designed to meet the accreditation standard of Engineers Ireland at Chartered level. Further information about Engineers Ireland eligibility is available from the MSc in Innovative Technology Engineering webpage at [www.wit.ie/WD555 (full-time)](http://www.wit.ie/WD555) and [www.wit.ie/wd557 (part-time)](http://www.wit.ie/wd557).

**Entry Details**

- Applicants for the MSc in Innovative Technology Engineering should hold a NFQ Level 8Honours (2.2) degree in Engineering, Science or cognate discipline.
- Applicants who do not hold the standard qualifying NFQ Level 8 qualification criteria, but have relevant industrial experience may be considered for admission to the programme under the Institute’s Recognition of Prior Learning (RPL) process and subject to an interview.
- Applicants whose primary language is not English must submit evidence of competency in English. Please see our website for more details [www.wit.ie/englishrequirements](http://www.wit.ie/englishrequirements).

**Fees**

For information on fees please visit our website at [www.wit.ie/pgfees](http://www.wit.ie/pgfees).

**Applications**

Applications for this programme are made online by going to [www.pac.ie](http://www.pac.ie) (code WD555 full-time and WD557 part-time).

**Contacts**

**Academic queries contact**

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For more detailed information please visit our website at:
[www.wit.ie/wd555](http://www.wit.ie/wd555)
[www.wit.ie/wd557](http://www.wit.ie/wd557)
[www.wit.ie/engineering](http://www.wit.ie/engineering)