

# MSc in International Medical Technologies, Innovation and Development



This NEW 15-month Masters programme is designed to help learners develop the skills required to support the innovation journey of medical technologies from prototype and pre-clinical phase to international target markets.

It was designed in partnership with some of the most innovative medical technologies companies in the industry and will be co-delivered by industry and academic experts.

## Course Title

MSc in International Medical Technologies,  
Innovation and Development

## Credits

90

## NFQ Level

9

## Campus

Galway

## Duration

15 Months  
(3 Semesters)



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University



[www.atu.ie](http://www.atu.ie)



### Why Undertake this Masters?

Medical technology is constantly evolving within a highly regulated framework. To remain competitive, companies require staff with extensive knowledge of the journey from prototype to pre-clinical phase and an understanding of the relevant regulatory requirements.

Learners will develop the critical research skills needed to support the convergence in medical technologies. They will also gain an understanding of the advanced testing methods used in the industry to support business strategy and plans to target international markets. Learners will participate in onsite device testing in ATU's state-of-the-art Medical Imaging Suite and networking events with key opinion leaders.

### Learning Approach

- Blended learning
- Project-based learning
- Team-based learning
- Self-directed and flexible learning
- Industry speakers and networking events

### Career Opportunities

Industry stakeholders have indicated that this programme will prepare graduates to work in a vast range of areas. See [www.gmit.ie](http://www.gmit.ie) for a list of typical career opportunities.

### What to Expect

The course is delivered via blended learning and is designed to suit those in full-time employment. Lectures and tutorials will be delivered online and will also be recorded and available through ATU's learning platform Moodle.

Learners can expect to be onsite for certain practicals, workshops, and events in semesters one and two.

### Course Content

	MODULE	CREDITS
SEMESTER 1	Medical Technologies	5
	Global Regulatory Strategies for Medical Technologies	5
	Design and Analysis of Experiments	5
SEMESTER 2	CEO Masterclass	5
	Pre-Clinical Evaluation and Assessment	10
	Research Project in Medical Technologies	55
SEMESTER 3	Design Control and Risk Management	5
	Research Project in Medical Technologies (Cont.)	

## Module Overview

### Medical Technologies

Learners will gain a deep understanding of the medical technology field, focusing on medical device design and engineering and the convergence of different medical technologies.

### Global Regulatory Strategies for Medical Technologies

This module focuses on the regulatory requirements organisations must follow to develop and commercialise medical technologies successfully.

### CEO Masterclass

Through a series of workshops and networking events, key speakers will share their extensive industry experience in topics such as intellectual property, commercialisation, healthcare reimbursements models and RDI funding.

### Pre-clinical Evaluation and Assessment

With a focus on non-clinical benchmark performance testing, biocompatibility, and human factors, this module will introduce learners to testing protocols and pre-clinical performance evaluation reports.

### Entry Requirements

Applicants must hold a H2.2 Bachelor's degree, at Level 8, in any cognate discipline or equivalent in science, technology or engineering.

### How to Apply

Apply directly to ATU. Please login at <http://apply.gmit.ie/> and select **Application Type L9.**



I want to know more. Who can I talk to?

**Joaquin Penide** lectures on this course. He will be happy to help you. You can contact him on:   
**E** [Joaquin.penide@atu.ie](mailto:Joaquin.penide@atu.ie)   
 Or find out more at [www.gmit.ie](http://www.gmit.ie)



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