



# GMIT

INSTITIÚID TEICNEOLAÍOCHTA NA GAILLIMHE-MAIGH EÓ  
GALWAY - MAYO INSTITUTE OF TECHNOLOGY

# Biomedical Engineering

This exciting new degree is designed to equip graduates with a broad range of biological and engineering skills, so they can develop a rewarding career in the growing MedTech sector.

Programme Title:	CAO Code	NFQ Level	Campus	Duration
BEng in Biomedical Engineering	GA 674	7	GMIT Galway	3 years
BEng (Hons) in Biomedical Engineering	GA 682	8	GMIT Galway	4 years



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



## Why Biomedical Engineering?

This degree course will appeal to students who want to work in the MedTech sector in Ireland or overseas. Students on this course will develop a wide range of biological and engineering skills, and will use these skills to design solutions for the healthcare manufacturing industry.

### Students on this course will develop expertise in:

- The integration of engineering with human physiology
- Biomedical product/systems design and automation
- Validation, Quality and Regulatory Affairs

Graduates can expect a varied and exciting career in the MedTech sector.

## What to expect

The course is very practical, with an average of 22 hours of tuition per week. In addition to lectures, students learn through a combination of weekly lab classes, workshop practice, individual and group projects, and work placement experience.

### Subjects include:

- Computer Aided Design
- Electrical Sciences
- Human Physiology
- Manufacturing Engineering
- Quality
- Manufacturing Automation
- Human Anatomy & Physiology for Engineers
- Biomechanics
- Instrumentation and Control
- Advanced Mechanical Engineering
- Six-Sigma Engineering
- Medical Devices
- Tissue Engineering
- Work Placement

See [www.gmit.ie](http://www.gmit.ie) for more details.

## Career Opportunities

Graduates can find employment in a wide diversity of Biomedical engineering related disciplines both nationally and internationally, namely;

- Medical Device Design
- Surgical Design
- Research and Development Engineer
- Manufacturing Engineer
- Quality Engineer
- Product design and product validation
- Automation Engineer
- New Product development
- Process Validation
- Project Management
- Sales Engineer

Some graduates may also become self-employed.

## Entry Requirements

Minimum LC grade of O4/H7 in Mathematics, in addition to general entry requirements.

## Work Placement

This degree includes a 20 week work placement in Year 3.

*"Ireland has over 29,000 people employed in the MedTech sector, and is the second largest employer of MedTech professionals in Europe. As many as 18 of the world's top 25 medical technology companies have a base in Ireland, so the employment prospects for graduates of this degree are especially bright right now."*

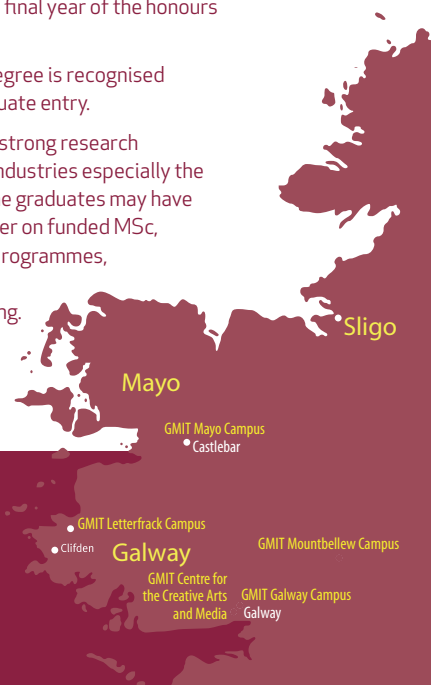
Dr Carine Gachon, School of Engineering, GMIT

## Further study:

Students on the ordinary (Level 7) degree can apply to progress to the final year of the honours (Level 8) degree.

The honours (Level 8) degree is recognised worldwide for postgraduate entry.

Furthermore, GMIT has strong research connections with local industries especially the MedTech sector, so some graduates may have an opportunity to register on funded MSc, MEng or PhD research programmes, specifically in the areas of biomedical engineering.



## Further information:

Dr Carine Gachon lectures on this course. She will be happy to help you.

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