ATU Galway City

School of
**Science and Computing**

## Master of Science

# Medical Science

The MSc in Medical Science is focused on Medical Science professionals aiming to enhance their careers in research and advanced clinical or professional practice. The programme allows learners to specialise in one of the core Medical Science disciplines and develop an in-depth knowledge of clinical and laboratory medicine and advanced skills to conduct independent research.

### Career Opportunities

Graduates can expect to take up positions as Senior Medical Scientist, Specialist Medical Scientist, Chief Medical Scientist and Laboratory Manager.

| Course Title | Credits | NFQ Level | Campus | Duration |
|---|---|---|---|---|
| Master of Science in Medical Science | 90 ECTS | 9 | Galway | 2 Years (Part Time) |

Ollscoil Teicneolaíochta an Atlantaigh

Atlantic Technological University

@atugalwaycity
@ATUGalwayCity
@ATU_GalwayCity
ATU Galway City

www.atu.ie

ATU Galway City

School of Science and Computing

## Why Study the MSc in Medical Science?

- The Programme will develop skills pertinent to the Medical Science profession through a suite of advanced specialist modules which will further enhance career opportunities.
- Co-delivered by both practitioners and academic experts.
- The programme has a strong emphasis on work-based learning and the 3-semester long research project will be carried out in your hospital laboratory.

## What can I Expect?

- The MSc in Medical Science has been designed for Medical Scientists in full-time employment.
- This programme is delivered fully online with no onsite attendance required.
- Lectures and tutorials will be a blend of pre-recorded and live online classes.
- The research project will be conducted in your place of work and you will be supported by a collaborative network of colleagues and supervisors throughout.

## Course Content and Schedule

**Stage 1 - Semester 1**

- Design and Analysis of Experiments (5 ECTS)
- Research Methods (5 ECTS)
- Advances in Clinical Laboratory Diagnostics (5 ECTS)

**Stage 1 - Semester 2**

- Elective * (5 ECTS)
- Molecular Diagnostics and Bioinformatics (5 ECTS)
- Research Project in Medical Science (50 ECTS across 3 semesters)

**Stage 2 - Semester 3**

- Elective * (5 ECTS)
- Applied Quality Management for the Clinical Diagnostic Laboratory (5 ECTS)
- Research Project in Medical Science

**Stage 2 - Semester 4**

- Clinical Laboratory and Project Management (5 ECTS)
- Research Project in Medical Science

* Candidates will choose from one of the following electives (subject to availability) –

- Advanced Practice in Transfusion and Transplantation Science
- Advanced Clinical Chemistry
- Advanced Clinical Laboratory Haematology
- Advanced Clinical Microbiology and Infection
- Clinical Immunology, Global Infections and Therapeutics
- Advanced Cellular Pathology

## Entry Requirements

- Entry requirements include a BSc (Hons) in Medical Science/Biomedical Science and currently working as a Medical Scientist in a clinical diagnostic laboratory.
- Candidates enrolled on the programme must complete a laboratory-based research project.
- Access to laboratory facilities and associated supports is a prerequisite for this programme.
- English Language Requirements will be as determined by the institute.

## Student Endorsement

*"One of the aspects that I enjoyed most about this course was the guest lectures from experts in the medical science field. The material in this course is very relevant to working in a clinical laboratory and lecturers are also extremely accommodating as they know people are working full time.*
*I would highly recommend this course as it equips you with the knowledge and skills needed to further your career as a Senior Medical Scientist and also opens up the possibility of progression to PhD studies (level 10)."*

**Zara Brady - Medical Scientist, Biochemistry Department, Cavan General Hospital**

## Industry Endorsement

*"The wide range of choice in electives and the strong research focus will ensure that graduates emerge with advanced competencies in Medical Science.*
*The flexibility and convenience of this course allows the balance of study with work commitments. For the employer this is an opportunity for staff to meet their potential and develop skill sets suitable for Senior and Specialist Medical Scientist roles."*

**Terri Muldoon - Chief Medical Scientist, Division of Anatomic Pathology, Department of Histopathology, Cytopathology & Molecular Pathology, University Hospital Galway**

## How to Apply

Apply directly using the Online Admissions system. Please provide the following documentations to support your application:

1. A CV (max three pages) detailing your qualifications and career to date.
2. A personal motivational statement, which should include an outline of your experience working as a Medical Scientist.

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

**Dr Eugene McCarthy**
Head of Department of Analytical, Biopharmaceutical and Medical Sciences
T +353 (0)91 74 2081 | E eugene.mccarthy@gmit.ie
Or find out more at **www.atu.ie**

www.atu.ie

@atugalwaycity
@ATUGalwayCity
@ATU_GalwayCity
ATU Galway City