

Master of Science in Chemistry Research



OÉ Gaillimh
NUI Galway

This **Structured Master** is a **one-year full-time** or **two-year part-time research programme**, designed to provide internationally recognised training in chemistry for graduates with the view of gaining employment in the chemical, pharmaceutical or medical devices sector or entering a PhD.

Key Features

- ❖ **taught modules** during the first **three months** of the programme followed by an **eight months research project**
- ❖ option to carry out the research project
 - in the School of Chemistry
 - in a partner laboratory in Ireland or abroad
 - in industry
- ❖ research opportunities in a wide range of different areas
- ❖ training relevant to employment in the pharmaceutical & medical devices sector
- ❖ ideally suited to graduates in employment who wish to upskill
- ❖ training in a location that is a major hub for medical devices
- ❖ pathway to a PhD

Research Projects on Offer

- ❖ medicinal, pharmaceutical & biomedical chemistry
- ❖ analytical chemistry
- ❖ marine chemistry
- ❖ protein chemistry
- ❖ green chemistry
- ❖ polymer chemistry and materials
- ❖ carbohydrate chemistry
- ❖ combustion chemistry & energy
- ❖ computational chemistry

Taught Modules

- ❖ modern analytical and instrumental techniques, cheminformatics, molecular modelling & simulation software
- ❖ current research topics in synthesis, green chemistry, biomedical & pharmaceutical chemistry
- ❖ choice of elective modules*
 - Validation in the Pharmaceutical & Medical Device Industry
 - Advanced Biomaterials
 - Masterclass in Process Development and Scale-Up in the Pharmaceutical Industry (taught by experts from industry and guest lecturers)
 - Masterclass in Carbohydrate Chemistry

* Modules on offer may vary from year to year.

Employment & Career Opportunities - What Industry Says

Dr. Ger Harnett, Chief Scientist at Roche Ireland Ltd: “We in Roche have hosted undergraduate students on industrial placement programmes and, over the last 35 years, have hired many chemists graduated at the NUI Galway School of Chemistry. They were proved to be skilled and competent in the practice of chemistry and excellent employees who have contributed very significantly at many levels in the organisation. A Master’s Programme such as this will further enhance the quality of chemistry graduates and improve their employability in the Pharma Industry”.

Dr. Sharon Bourke, Director of Technical Service / Manufacturing Science at Eli Lilly, Kinsale: “Eli Lilly has a long standing relationship with the School of Chemistry NUI Galway and has a history of hiring excellent graduates and postgraduates over the years from the school. The successful adaptability of NUI Galway students into various roles within a Pharmaceutical site culture is a testament to their dedication and training. The creation of a new Master of Science in Chemistry Research is a proactive and positive step in the evolution of science in NUI Galway. This course will further develop graduate technical knowledge and depth, which will help people reach their full career potential in either industry or academia”.

Apply on <https://nuigalway.elluciancrmrecruit.com/Apply/Account/Login>

Further Information: <http://www.nuigalway.ie/science/school-of-chemistry/postgraduate-courses/msc/>
or contact the Programme Director: Dr Andrea Erxleben; andrea.erxleben@nuigalway.ie