Research & Innovation
in Making Medicines

# rinn

## Pharma & Biopharma

**Recruiting Now**

Taighde Éireann
Research Ireland

**Contents**

# 1 Introduction

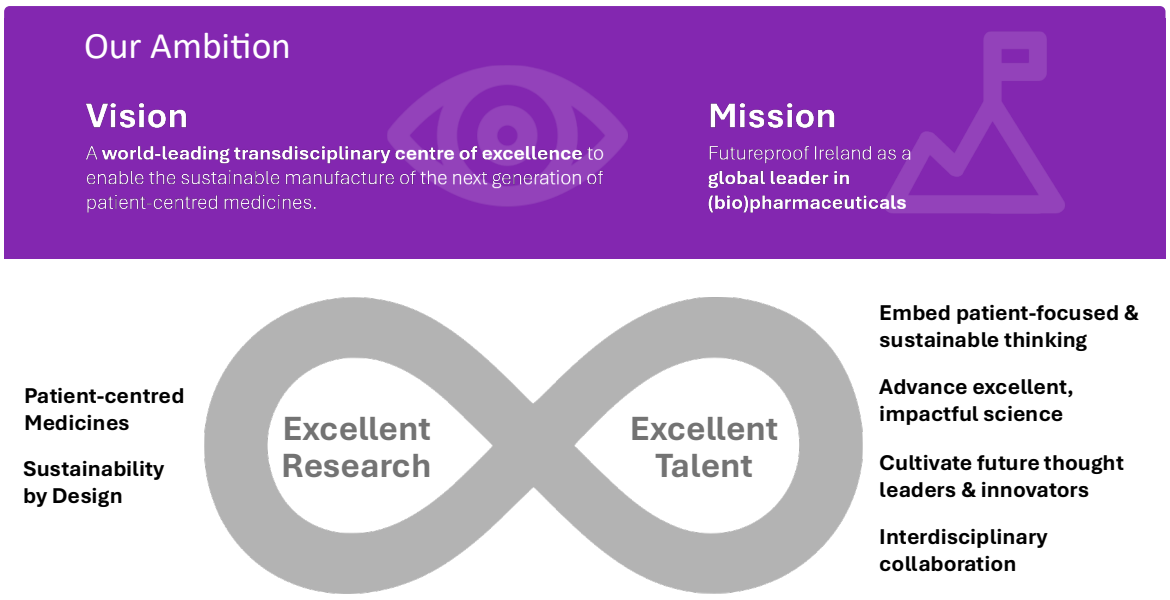
Rinn Pharma & Biopharma marks a new chapter in Ireland's pharmaceutical research leadership, building on the strong foundations established by SSPC. The Centre represents a €60.3 million investment as part of the wider €460 million Research Ireland Rinn network, launched in June 2026.

The Centre has been established to address some of the most significant healthcare, societal, and environmental challenges of our time. Rinn Pharma & Biopharma will drive excellence in pharmaceutical and biopharmaceutical research and innovation. Through pioneering science, collaboration, and talent development, the Centre aims to contribute to the next generation of positive societal, economic, and environmental transformation in Ireland and globally.

The Rinn network enables a systemic and strategic approach that aims to deliver solutions with real-world impact. Rinn empowers radical collaboration that operates across multiple research bodies in partnership with industry, government and wider stakeholders to create a unique research and innovation ecosystem of international significance and scale.

## 1.1 Transforming the Future of Medicines

Rinn Pharma & Biopharma is Ireland's flagship national research initiative, delivering a transdisciplinary programme that combines expertise across pharmaceutical and biopharmaceutical sciences, engineering, biotechnology, data science, materials science, and the social sciences to transform how medicines are developed, manufactured, and delivered to patients. By bringing together these diverse disciplines, the Centre will address two critical challenges facing modern drug development: patient-centred medicines and sustainable pharmaceutical innovation.




The first challenge is the development of patient-centred medicines, including advanced formulations and therapeutic products that improve drug effectiveness, acceptability, delivery, and dosing for diverse patient populations.

The second is the integration of sustainability across the pharmaceutical lifecycle, reducing the environmental impact of processes spanning synthesis, bioprocessing, formulation, and manufacturing.

Through its transdisciplinary and collaborative approach, Rinn Pharma & Biopharma will build the scientific foundations, talent pipeline, and partnerships needed to accelerate the development of safer, more effective, patient-centred, and sustainable medicines.

### 1.2 Centre Overview

**Award Value:** €60,324,450

**Host Institution:** University of Limerick

**Partner Institutions:** 12

**Principal Investigators:** 73 leading researchers distributed across Ireland


## Partner Institutions

- University of Limerick (UL)
- Trinity College Dublin (TCD)
- University College Cork (UCC)
- University College Dublin (UCD)
- Dublin City University (DCU)
- Royal College of Surgeons in Ireland (RCSI)
- Maynooth University
- Southeast Technological University (SETU)
- Tyndall National Institute
- Munster Technological University (MTU)
- University of Galway (UoG)
- National Institute for Bioprocessing Research and Training (NIBRT)

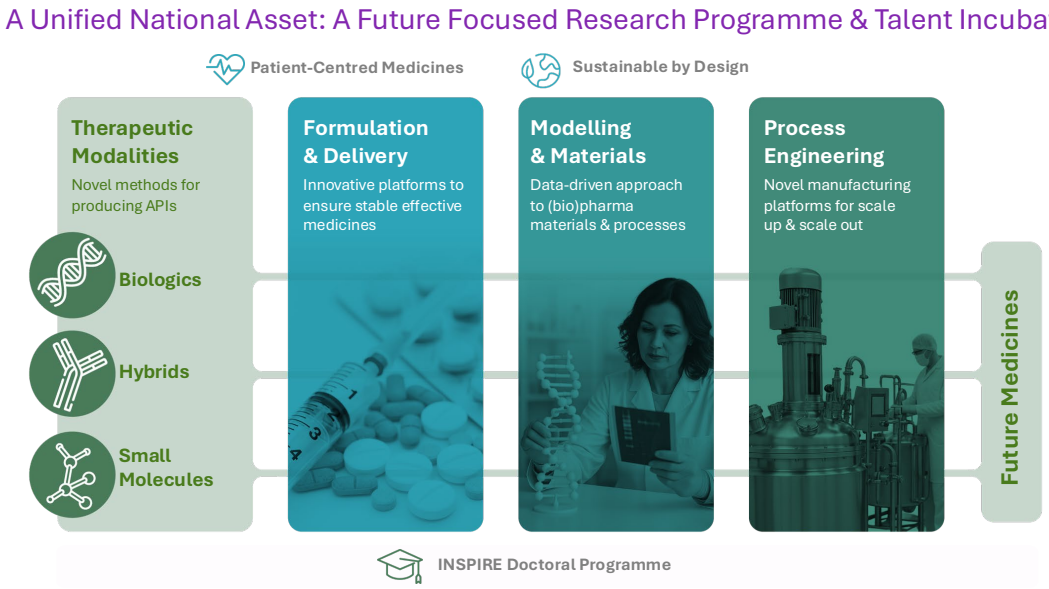
Together, these institutions form a national research community with internationally recognised expertise across pharmaceutical and biopharmaceutical science, engineering, manufacturing, and innovation.

### 1.3 Research with Real-World Impact

The innovations developed within Rinn Pharma & Biopharma aim to improve patient outcomes while supporting a more sustainable pharmaceutical future. Research undertaken by PhD students may contribute to:

- Next-generation medicines and therapeutic technologies
- More sustainable pharmaceutical manufacturing processes
- Advanced drug delivery and formulation approaches
- Data-enabled and digitally driven pharmaceutical development
- Enhanced access to and effectiveness of medicines
- Improved economic competitiveness within Ireland's life sciences sector and around the world

### 1.4 Research Themes Overview




Research opportunities are available within 12 specialised themes, embedded across four interconnected pillars:

- **Therapeutic Modalities Pillar**
  - Cell-Expressed & RNA Therapeutics (CERT)
  - Advanced Bioanalytics & Omics (A&O)
  - Drug Conjugates & Hybrids (C&H)
  - Sustainable Selective Synthesis (SSS)
- **Formulation & Delivery Pillar**
  - Drug Particle Engineering (DPE)
  - Dosage Form Design (DFD)
  - Innovation in Patient-Centred Products (PCP)
  - Transforming Engaged Research in (Bio)Pharma (TERB)

- **Modelling & Materials Pillar**
  - Predictive Materials Design & Model-Driven Process Control (PMC)
  - Foundry for Functional Materials (F3M)
- **Process Engineering Pillar**
  - Novel & Modular Platforms (NMP)
  - Biologics Manufacturing (BM)

### 1.5 Why Join Rinn Pharma & Biopharma?

As a PhD researcher within Rinn Pharma & Biopharma, you will become part of one of Ireland's largest and most ambitious pharmaceutical research programmes. You will benefit from:

- Access to a national network of leading researchers and research facilities
- Collaboration across disciplines, institutions, and sectors
- Engagement with pharmaceutical, biopharmaceutical, healthcare, and public-service partners
- Opportunities to address global healthcare and sustainability challenges
- International research and networking opportunities
- Structured professional and leadership development
- A vibrant cohort-based doctoral community

Most importantly, you will contribute to research that has the potential to shape the future of medicines and healthcare.

### 1.6 The Doctoral Programme Experience

Alongside their individual research projects, PhD researchers will participate in a cohort-based doctoral programme designed to develop highly skilled, adaptable, and impactful graduates. The programme aims to equip students with:

- Deep disciplinary expertise
- Knowledge of the pharmaceutical and biopharmaceutical R&D continuum
- Leadership and teamwork capabilities
- Innovation and entrepreneurship skills
- Expertise in sustainability and responsible research
- Data science and digital competencies
- Communication and stakeholder-engagement skills

Researchers will participate in a structured programme of training and professional development focused on both technical excellence and future-facing transferable skills. Students will also benefit from:

- Industry training placements as applicable
- Research visits to internationally renowned collaborating institutions as applicable
- Exposure to innovation and entrepreneurship activities
- Dedicated mentoring and career-development support
- Networking opportunities with academic, industry, healthcare, and policy leaders

### 1.7 Funding

Each PhD scholarship covers a 4-year stipend of €25,000 per annum tax free, travel budget for conference attendance and research visits to collaborators, computing facilities, total fee allocation of €23,000, competitive allocation for project running costs and allocation for Doctoral Programme attendance.

### 1.8 How to apply:

Applications are invited for PhD researchers across Rinn Pharma & Biopharma's partner institutions and research programmes.

Apply now and join a national community of researchers working to shape the future of medicines, advance sustainable pharmaceutical innovation, and deliver lasting impact for patients and society.

To apply, complete the application form and indicate the research theme, supervisor and institute that you are interested in. The form should be completed in one sitting so please prepare your answers in advance The list of questions is included in this document Appendix.

**2026 PhD Application Form: Rinn Pharma & Biopharma – Fill out form**

## 2 Research Themes & PhD Opportunities

The research areas for each PhD position are as follows:

### 2.1 Cell Expressed & RNA Therapeutics

Cell Expressed & RNA Therapeutics (CERT) vision is to bring about a step-change in the design of medicines that are more potent and effective, and the provision of new cell expression systems for their manufacture. The CERT team will generate a transformative shift in our understanding of the limitations upon the design of advanced biotherapeutics and the expression systems used to produce these, applying modern engineering biology approaches to design and deliver more efficient, predictable and sustainable modalities and cell expression systems. **Key skills:** biotherapeutic medicine production from mammalian expression systems, genetic engineering of recombinant therapeutic proteins, drug-DNA interactions, hybrid therapeutic nucleic acids, chemotherapeutic drug development, click chemistry and DNA damage & repair. Cross-theme contributors bring expertise in stabilising proteins, RNA protection, scale up of RNA production, AAV processing, exosome production and stabilising circRNA.

| Code | Title | Supervisor | Email |
|---|---|---|---|
| **CERT 1** | Unlocking novel properties of RNA molecules through chemical modification of circRNAs. | Piotr Kowalski, UCC | piotr.kowalski@ucc.ie |
| **CERT 2** | Reversible Structure-Engineered mRNA Prodrugs for Enhanced Formulation Stability and Programmable In-Vivo Pharmacokinetics | Elizabeth Topp, NIBRT | elizabeth.topp@nibrt.ie |
| **CERT 3** | Chemical Modification and Functional Screening of Synthetic mRNA for Therapeutic Applications beyond Vaccines | Steven Ferguson, NIBRT | steven.ferguson@ucd.ie |
| **CERT 8** | Model-based control for improved downstream processing of recombinant proteins. | Jessica Whelan, UCD | jessica.whelan1@ucd.ie |

### 2.2 Advanced Bio-analytics & Omics

Advanced Bio-analytics & Omics (A&O) will develop new tools for characterisation and fundamental understanding of cellular performance and process–product interplay of advanced therapeutic modalities. They will utilise techniques for the evaluation of biopharmaceuticals in the native state, particularly characterisation of highly heterogeneous or large molecular weight analytes where individual charge state determination is not feasible, for example, highly glycosylated therapeutic proteins or AAVs for gene therapy delivery. This work will be supported by advanced omics. In addition, in-line process monitoring will be developed using mobile sensors or functionalisation of surfaces that can be integrated with standard manufacturing unit operations. **Key skills:** liquid phase separations, mass spectrometry (LC-MS and CE-MS), proteomic characterisation of CHO cells, statistical methods

to study CHO transcriptomic, proteomic expression datasets, clinical proteomic analysis of uveal melanoma and pancreatic cancer disease progression, nano, photonic and ICT enabled sensor platforms for novel bioprocessing applications. Cross-theme contributor brings expertise in flow synthesis.

| Code | Title | Supervisor | Email |
|---|---|---|---|
| **A&O 1** | A systems chemistry approach to understand process variability | Jonathon Bones, NIBRT | jonathan.bones@nibrt.ie |
| **A&O 6** | Improving codon optimisation of therapeutic antibody transgene sequences by analysis of the Chinese hamster ovary translatome. | Colin Clarke, NIBRT | colin.clarke@nibrt.ie |

### 2.3 Drug Conjugates & Drug Hybrids

Drug Conjugates & Drug Hybrids (C&H) will bridge large and small molecule drugs and address gaps in sustainability, functionality and scalability. It will focus on developing methods for enabling sustainable synthesis either on a small scale, in bulk, in flow or through (non-covalent or covalent) self-assembly methods and processes as well as through directed organic and biochemical modifications/synthesis. Emphasis will be on developing a means of achieving a range of bioconjugations and hybrid drug structures, through molecular design, optimal synthetic routes, novel reaction conditions, reduction of impurities and automated synthesis. **Key skills:** organic synthesis including self-assembly to form novel soft materials with optical and self-healing properties, bioconjugation and characterisation including labelling, imaging and spectroscopy, development of novel probes and imaging agents, glycan therapeutics including radical chemistry in bio-conjugations, peptides and bio-inspired derivatives including solid phase synthesis of novel peptidomimetics and anion transporters, nano-bio interactions, bio-inorganic chemistry development of novel conjugation methods and structures. Cross-theme contributor brings expertise in microbial metabolomics.

| Code | Title | Supervisor | Email |
|---|---|---|---|
| **C&H8** | Synthetic Siderophore Conjugated Antimicrobial as Modified 'Bioconjugated Peptides' | Darren Griffith, RCSI | dgriffith@rcsi.com |
| **C&H9** | Novel Bio-nanomaterials Formation through Structural and Surface Charge Modifications of Lipid NPs and their Bio-conjugated Glycans | Marco Monopoli, RCSI | marcomonopoli@rcsi.com |
| **C&H11** | Development of By-product-Free Bioorthogonal Transformations for use in Competitive Media and Live Cells | Donal O'Shea, RCSI | donalfoshea@rcsi.ie |

### 2.4 Sustainable Selective Synthesis

Sustainable Selective Synthesis (SSS) will collectively develop a diverse array of synthetic methodologies and approaches critical to advancing API synthesis in a sustainable and stereoselective manner, leveraging advances in technology to maximise benefit for synthesis. This will be achieved, by advancing flow chemistry, immobilisation of reagents and enzymes, photochemistry, and electrochemistry techniques, and incorporating real time monitoring to enable telescoping with effective process control. This approach enables new ways to: (i) replace 'at risk' metals and design new ligands for high enantioselectivity, (ii) discover, develop and engineer novel organocatalysts. **Key skills:** Enantioselective transition metal catalysis, organocatalysis, biocatalyst/enzyme engineering; sustainable synthesis; design and synthesis of bioactive compounds; antimicrobial resistance and biofilms; biosynthetic production of peptides; continuous flow process and synthesis; electrochemistry, biocatalysis biosensors and bioenergetics. The cross-theme contributors bring expertise in porous material engineering, electrochemistry, modelling, intensification and process analytical technology.

**All positions for 2026 start have been filled**

### 2.5 Drug Particle Engineering

Drug Particle Engineering (DPE) will enable the design of Innovative drug delivery particles to overcome identified biological barriers and challenging physicochemical properties of therapeutic modalities. These designs will enable patient-centred medicines with increased therapeutic effectiveness and patient compliance**. Key skills:** Polymer, lipid and bio- based drug delivery particles, crystal engineering for (bio)pharma, mRNA drug delivery, peptide delivery across intestinal and buccal epithelia, cell targeting molecules, novel antimicrobial agents and in vitro testing models to investigate therapeutic efficacy. The cross-theme contributors bring expertise in porous material engineering, modelling, process intensification, crystal engineering, and conjugation.

| Code | Title | Supervisor | Email |
|---|---|---|---|
| **DPE 1** | Carbohydrate based novel delivery particle designs with optimised surface chemistry to manipulate interactions at the biological interface | Paul Murphy, UoG | paul.v.murphy@nuigalway.ie |
| **DPE 3** | Oral delivery of nucleic-acid therapeutics | Piotr Kowalski, UCC | piotr.kowalski@ucc.ie |
| **DPE 4** | Antimicrobial peptide and conventional antibiotic nanoparticle designs for the treatment of drug-resistant bacteria (Chemistry-Led). | Sarah Hudson, UL | Sarah.hudson@ul.ie |
| **DPE 6(2)** | HAWC nanocomplexes as a platform to mediate oral delivery of peptides using insulin as a prototype | David Brayden, UCD | david.brayden@ucd.ie |
| **DPE 8** | MultiDrug Solutions | Matteo Luisi, UL | Matteo.Lusi@ul.ie |
| **DPE 11** | Advanced Intestinal Models - investigating the potential role of endoplasmic reticulum stress in the | Finbarr O'Sullivan, DCU | finbarr.osullivan@dcu.ie |

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|---|---|---|---|
| | observed responses in an intestinal in vitro model | | |

### 2.6 Dosage Form Design

Dosage Form Design (DFD) will develop dosage forms of enabling formulations for poorly bioavailable APIs, as well as an improved understanding of approaches to ensuring stability of dosage forms on processing and storage. Research will be developed for the generation of co-processed materials suitable for sustainable downstream drug product manufacture, utilising (*in situ*) crystallisation/precipitation processes while also aiming to develop solvent-free approaches to transform poorly soluble BCS class II and IV molecules into effective dosage forms. It *will* investigate the utilisation of ionic liquids (ILs) in drug products, the solidification of drug substance ILs to overcome handling challenges while preserving bioavailability-enhancing properties and interrogating how API ionisation can be modulated in ILs by counterion selection and the subsequent impact on API solubility and hence bioavailability. **Key skills**: Pharmaceutical material science, particle engineering for pulmonary drug delivery, mechanochemistry, multicomponent pharmaceutical solids, dissolution testing, simulation, imaging and AI analysis and enhancing oral bioavailability of poorly soluble drugs and nanoparticle-based drug delivery system. The cross-theme contributors bring expertise in vaccines, product design, advanced analytics, process engineering and statistical modelling.

| Code | Title | Supervisor | Email |
|---|---|---|---|
| **DFD5** | Crystal engineering-guided design of multicomponent pharmaceutical systems for stable amorphous solid dispersions | Lidia Tajber, TCD | Lidia.tajber@tcd.ie |

### 2.7 Innovation in Patient-centred Products

Innovation in Patient-centred Products (PCP) team will design innovative drug products for enhanced patient adherence and acceptance by enabling self-administration, reduced frequency, multi-drug systems and improved palatability, for specific patient cohorts. It will aim to improve the ease of taking the medicine, minimising the impact of disease, improving health outcomes due to better adherence, and minimising environmental impact of drug wastage. This core team's focus of designing effective and acceptable medicines for patients will be achieved by close collaboration with the TERB team via exploration of mechanisms to enhance patient participation during the medicine design process. **Key skills:** expertise in the design of oral, pulmonary, ocular and intradermal dosage forms, advanced spectroscopy enabling quality assurance for personalised drug products manufactured at the point of care to delivery. Cross-theme contributors bring expertise in engaged research, dosage form design, pharmacokinetics, and process analytical technology.

| Code | Title | Supervisor | Email |
|---|---|---|---|
| **PCP 2** | LAI dissolution: pharmacokinetic modelling and image analysis | Deirdre D'Arcy, TCD | ddarcy@tcd.ie |

| | | | |
|---|---|---|---|
| **PCP 6** | Aerosol Jet Printing of Biomolecule Microneedle Delivery Systems | Niall O Reilly, SETU | Niall.OReilly@setu.ie |
| **PCP 10** | Chemometric and process models for point of care manufacture of RNA therapies PhD2 | Michael McAuliffe, MTU | michael.mcauliffe@mtu.ie |

### 2.8 Transforming Engaged Research in (Bio)pharma (TERB)

Transforming Engaged Research in (Bio)pharma (TERB) is envisioned as a 'seed' that will generate cutting edge knowledge to normalise engaged research in the Centre and (bio)pharma sector. It advances the state-of-the-art by: **(i)** investigating innovative methodologies for inclusive engaged research in participatory spaces relating to formulation and delivery of drug products; **(ii)** advancing knowledge about ways to build capacity across community, pharma and education sectors for meaningful research partnerships. **Key skills:** Historical analysis of engaged research, testing the applicability of participatory concept and methods, implementation of change in health and educational settings, conceptual and methodological innovation in engaged research with people who experience marginalisation and social exclusion and health and educational policy reform. The core groups skills will be complemented by the EPE programme. The cross-theme contributors bring expertise in product design and ocular drug delivery.

| Code | Title | Supervisor | Email |
|---|---|---|---|
| **TERB 2** | Methodologies for diversifying PPI partners using arts-based research. | Anne McFarlane, UL | Anne.MacFarlane@ul.ie |
| **TERB 3** | Analysis of trust dynamics in coproduction partnerships for biopharma research: mixed methods social network analysis | Jon Salsberg, UL | Jon.Salsberg@ul.ie |

### 2.9 Novel & Modular Platforms

Novel & Modular Platforms (NMP) will develop innovative platforms for decentralised manufacturing with improved productivity and agility for making medicines accessible to patients with varying needs, producing less waste per unit mass of medicines. This will be achieved by developing novel process intensification technologies guided by multi-scale computational models. New methods, sustainability metrics and models will be developed to assess the impact of novel and modular platforms on the manufacturing of pharmaceuticals. The focus will be on the entire life cycle, from cradle to grave, of zero-discharge pharmaceutical processes to determine the environmental footprints of the products and processes. **Key skills:** Sustainable energy (anaerobic digesters, biomass to energy & value added chemicals, gasification), water (cavitation for effluent treatment & dis-infection), fine & specialty chemicals (continuous processing, multiphase reactors & scale-up and process intensification), interfacial phenomena in multiphase flows in the pharmaceutical, mining, agriculture, and water treatment industries, particle engineering technologies, continuous nanocrystallization and (Bio)pharmaceutical processing, biomolecular simulation, nanobubbles, high-performance

computing, microscale and accelerated MD and ab initio simulation on various novel architectures, engineering of surfaces to enhance their performance, additive manufacturing using 3D printing, the economics of innovation, R&D subsidies, human capital and green innovation. The cross-theme contributors bring expertise in scale up of bioprocesses, particle drug delivery, and flow chemistry.

| Code | Title | Supervisor | Email |
|---|---|---|---|
| **NMP4** | Nanoparticle formation via spray nozzles | Luis Padrela, UL | Luis.Padrela@ul.ie |
| **NMP 9** | High-fidelity computational modelling of crystallisation including polymorphism | Orest Shardt, UL | Orest.Shardt@ul.ie |
| **NMP 11/B M8** | Multi-Scale Models for Translating Lab-Scale Cell Culture Development to Bioreactors | Orest Shardt, UL | Orest.Shardt@ul.ie |

### 2.10 Biologics Manufacturing

Biologics Manufacturing (BM), digital, sustainable, and highly scalable manufacturing platforms for biopharmaceutical therapeutics will be developed, It will create upstream and downstream manufacturing platforms that will enable novel mRNA derivatives to be produced reliably at a significant scale beyond tens of kilograms, which will ensure that production capacity will not hinder deployment of such therapies globally. It aims to implement downstream separation approaches. that will facilitate end to end processing of multi-specific recombinant protein based biotherapeutics and AAVs. Multi-scale process and hybrid modelling techniques will be employed to enable process digitisation with a view to improve scalability through process understanding, facilitating agile, more resilient supply of large molecule therapies. **Key skills:** Advanced manufacturing, flow synthesis and formulation of novel pharmaceutical products, advanced experimentation and computational strategies to optimise the production of biopharmaceuticals, including monoclonal antibodies and gene therapy viral vectors; formulation and stability of protein drugs, with an emphasis on peptides and proteins in the amorphous solid state, biomanufacture of biologics and advanced therapies, improving process engineering and development across the process life cycle, process analytical technology, process modelling, advanced process control, scale up/down/out strategies, process optimisation and intensification. The cross-theme contributors bring expertise in mRNA, oligonucleotides, reactor modelling and computational fluid dynamics.

| Code | Title | Supervisor | Email |
|---|---|---|---|
| **BM 1** | Modelling, Optimisation and Characterisation of RNA Ligation Processes for mRNA Assembly | Steven Ferguson, NIBRT | steven.ferguson@ucd.ie |
| **BM 2** | Novel Phosphoramidite enabled Liquid-Phase RNA Oligonucleotide Synthesis Processes for Scalable, Intensified and more Sustainable Oligonucleotide Therapeutics. | Steven Ferguson, UCD | steven.ferguson@ucd.ie |

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|---|---|---|---|
| **BM 3** | Determination and quantification non-enzymatic degradation of RNA in manufacturing and formulation relevant environments | Elizabeth Topp, NIBRT | elizabeth.topp@nibrt.ie |
| **BM 5** | Integrated Systems Modelling and Optimisation of Biopharmaceutical Downstream Processes | Steven Ferguson, UCD | steven.ferguson@ucd.ie |
| **BM 6** | Model supported design of scalable cost-effective tangential flow filtration (TFF) purification for the biomanufacture of glycoengineered and optimised viral vectors | Jessica Whelan, UCD | jessica.whelan1@ucd.ie |
| **BM 7/NMP12** | Generative Design of Fluidic Elements for Continuous Spatially Distributed Diafiltration in Biopharmaceutical and Flow Chemistry Applications | Steven Ferguson, UCD | steven.ferguson@ucd.ie |

### 2.11 Predictive Materials Design & Model-driven Process Control

Predictive Materials Design & Model-driven Process Control (PMC) will bridge the gap between atomic-level understanding and rapid decision-making during drug development through development of multi-scale modelling tools to help optimise stability study designs, reducing costs and improving safety. Spanning from first principles quantum mechanics and meso scale dynamics to numerical and analytical models, the developed methods will integrate appropriate machine learning throughout and will be benchmarked against available literature data. Once benchmarked, the modelling tools will be tested in the experimental themes and then either deployed to guide further experiments. **Key skills:** Design of biomolecular crystals, including multi-component forms, pharma manufacturing materials, and solvated drug delivery, predictive materials modelling, peptide engineering, molecular dynamics simulation, statistical models for complex data, modelling of drug diffusion, mechanistic models and mathematical models. The cross-theme contributors bring expertise in computational fluid dynamics, reactor modelling, biocatalysis, DNA damage, bioprocess modelling and porous materials.

| Code | Title | Supervisor | Email |
|---|---|---|---|
| **PMC 3** | Development of meso scale models to stabilise biologics under complex processing conditions and biological environments | Damien Thompson, UL | Damien.Thompson@ul.ie |
| **PMC 9** | Mechanistic modelling (transitions from micro to macro states) using population balance models, Monte Carlo method and DEM approach for crystallization | Mehakpreet Singh, UL | Mehakpreet.Singh@ul.ie |

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|---|---|---|---|
| | processes and pharmaceutical manufacturing | | |

### 2.12 Foundry for Functional Materials ($F^3M$)

Foundry for Functional Materials ($F^3M$) will design and develop bespoke porous materials and cages to enhance the sustainability of pharmaceutical manufacturing and drug delivery by addressing sustainable feedstocks, energy-efficient conversions and elimination of unwanted by-products. Emphasis will be placed on utilisation of reagents that can be sourced from water, $CO_2$, $N_2$, and $O_2$ in the atmosphere, purification of solvents and water (to enable continuous manufacturing) and controlled drug delivery. In essence, three C's, ***capture*** (purification), ***conversion*** (synthesis) and ***control*** (over drug delivery and product specificity, including stereoselectivity) are key to enabling more efficient or even fully sustainable processes for manufacture of drug substance and drug product. **Key skills:** Materials design and characterization, biocatalytic and/or electrocatalytic conversions, water/solvent purification, controlled drug delivery and molecular modelling. The cross-theme contributors bring expertise in particle drug delivery, proteomics, organic synthesis, and flow chemistry.

| Code | Title | Supervisor | Email |
|---|---|---|---|
| **F3M 4** | Molecular Modelling of adsorption and separation of chemicals and drug solutions in porous materials | Matthias Vandichel, UL | Matthias.Vandichel@ul.ie |
| **F3M 6** | Computational design and engineering of enzymes in confined spaces | Matthias Vandichel, UL | Matthias.Vandichel@ul.ie |
| **F3M 7** | Electrocatalysis at functionalized polarisable liquid/liquid interfaces for sustainable electrosynthesis of pharmaceutical precursors | Micheal Scanlan, UL | Micheal.Scanlon@ul.ie |

## Appendix: 2026 PhD Application Form: Rinn Pharma & Biopharma

The following section provides an overview of the 2026 PHD Application Form for Rinn Pharma and Biopharma. This is the document you will be required to complete when applying for an PhD opportunity within the Centre.

# 2026 PhD Application Form: Rinn Pharma & Biopharma

**Please do not close or navigate away from this form or your entries will be lost.**

We advise applicants to review ALL questions in advance. We also recommend that applicants set aside time to complete this form in one sitting. We strongly recommend that applicant prepare their main personal statement questions in a separate document and paste the answers into this form to avoid any risk of edits being lost if the internet connection is interrupted. Please note that there is a strict word limit on personal statement questions.

Applicants will have an opportunity to review, by using the back button at the bottom left hand side of the screen, and edit the application form before submitting it.

Please complete **ALL** sections of the application form.

Please note that our assessment of the application will consider **both** the academic record and the answers to the personal statement questions. Applicants who do not provide detailed answers to questions exploring motivation will not be shortlisted.

**Application deadline:** We will initially consider all applications received by the closing date in the advert for shortlisting and interview. We will continue to accept applications until all places are filled.

Required

1. Name (first, last) *

2. Email *

3. Contact Telephone number (inc. country code) *

4. How did you hear about the positions for the  Doctoral Programme

- ◯ website
- ◯ Virtual Open Day
- ◯ FindAPhD website
- ◯ University of Limerick website
- ◯ University of Galway website
- ◯ National Institute for Bioprocessing Research and Training website
- ◯ Trinity College Dublin website
- ◯ University College Cork website
- ◯ University College Dublin website
- ◯ Maynooth University
- ◯ Royal College of Surgeons Ireland
- ◯ South East Technological University
- ◯ Munster Technological University
- ◯ Dublin City University
- ◯ Tyndall Institute
- ◯ Word of mouth
- ◯ LinkedIn
- ◯ Other

## Funding Eligibility Criteria: Please read carefully

**Research Ireland Funding Eligibility (for Rinn Pharma & Biopharma):**
Rinn Pharma & Biopharma, part of the Research Ireland Rinn network of research centres studentships are based in Ireland and are open to Irish, EU and international students. To be eligible as an EU student, applicants must have been ordinarily resident in the EU/EEA for 3 of 5 years prior to the application.

Rinn Pharma & Biopharma studentships will cover EU fees only and a stipend, €25,000/annum. Studentships are based in one of the new centre partner universities: University of Limerick, Dublin City University, University of Galway, Maynooth University, South East Technological University, Munster Technological University, NIBRT, Trinity College Dublin, University College Cork, University College Dublin or Tyndall Institute.

International students are eligible for a full stipend but may be responsible for covering the additional cost of international fees. This varies between HEI so please contact us to verify.

5. What is your nationality (what is on your passport/ID card)? *

- ◯ Afghanistan
- ◯ Albania
- ◯ Algeria
- ◯ Andorra
- ◯ Angola
- ◯ Antigua and Barbuda
- ◯ Argentina
- ◯ Armenia
- ◯ Australia
- ◯ Austria
- ◯ Azerbaijan
- ◯ Bahamas
- ◯ Bahrain
- ◯ Bangladesh
- ◯ Barbados
- ◯ Belarus
- ◯ Belgium
- ◯ Belize
- ◯ Benin
- ◯ Bhutan
- ◯ Bolivia
- ◯ Bosnia and Herzegovina
- ◯ Botswana
- ◯ Brazil
- ◯ Brunei
- ◯ Bulgaria
- ◯ Burkina Faso
- ◯ Burundi
- ◯ Cote d'Ivoire
- ◯ Cabo Verde

- Cambodia
- Cameroon
- Canada
- Central African Republic
- Chad
- Chile
- China
- Colombia
- Comoroas
- Congo (Congo-Brazzaville)
- Costa Rica
- Croatia
- Cuba
- Cyprus
- Czechia (Czech Republic)
- Democratic Republic of the Congo
- Denmark
- Djibouti
- Dominica
- Dominican Republic
- Ecuador
- Eqypt
- El Salvador
- Equatorial Guinea
- Eritrea
- Estonia
- Eswatini (formerly "Swaziland")
- Ethiopia
- Fiji
- Finland
- France

- Gabon
- Gambia
- Georgia
- Germany
- Ghana
- Greece
- Grenada
- Guatemala
- Guinea
- Guinea-Bissau
- Guyana
- Haiti
- Holy See
- Honduras
- Hong Kong
- Hungary
- Iceland
- India
- Indonesia
- Iran
- Ireland
- Israel
- Italy
- Jamaica
- Japan
- Jordan
- Kazakhstan
- Kenya
- Kiribati
- Kuwait
- Kyrgyzstan

- ◯ Laos
- ◯ Latvia
- ◯ Lebanon
- ◯ Lesotho
- ◯ Liberia
- ◯ Libya
- ◯ Liechtenstein
- ◯ Lithuania
- ◯ Luxembourg
- ◯ Madagascar
- ◯ Malawi
- ◯ Malaysia
- ◯ Maldives
- ◯ Mali
- ◯ Malta
- ◯ Marshall Islands
- ◯ Mauritania
- ◯ Mauritius
- ◯ Mexico
- ◯ Micronesia
- ◯ Moldova
- ◯ Monaco
- ◯ Mongolia
- ◯ Montenegro
- ◯ Morocco
- ◯ Mozambique
- ◯ Myanmar (formerly Burma)
- ◯ Namibia
- ◯ Nauru
- ◯ Nepal
- ◯ Netherlands

- ◯ New Zealand
- ◯ Nicaragua
- ◯ Niger
- ◯ Nigeria
- ◯ North Korea
- ◯ North Macedonia
- ◯ Norway
- ◯ Oman
- ◯ Pakistan
- ◯ Palau
- ◯ Palestine State
- ◯ Panama
- ◯ Papua New Guinea
- ◯ Paraguay
- ◯ Peru
- ◯ Philippines
- ◯ Poland
- ◯ Portugal
- ◯ Qatar
- ◯ Romania
- ◯ Russia
- ◯ Rwanda
- ◯ Saint Kitts and Nevis
- ◯ Saint Lucia
- ◯ Saint Vincent and the Grenadines
- ◯ Samoa
- ◯ San Marino
- ◯ Sao Tome and Principe
- ◯ Saudi Arabia
- ◯ Senegal
- ◯ Serbia

- ◯ Seychelles
- ◯ Sierra Leone
- ◯ Singapore
- ◯ Slovakia
- ◯ Slovenia
- ◯ Solomon Islands
- ◯ Somalia
- ◯ South Africa
- ◯ South Korea
- ◯ South Sudan
- ◯ Spain
- ◯ Sri Lanka
- ◯ Sudan
- ◯ Suriname
- ◯ Sweden
- ◯ Switzerland
- ◯ Syria
- ◯ Taiwan
- ◯ Tajikistan
- ◯ Tanzania
- ◯ Thailand
- ◯ Timor-Leste
- ◯ Togo
- ◯ Tonga
- ◯ Trinidad and Tobago
- ◯ Tunisia
- ◯ Turkey
- ◯ Turkmenistan
- ◯ Tuvalu
- ◯ Uganda
- ◯ Ukraine

- ◯ United Arab Emirates
- ◯ United Kingdom
- ◯ United States of America
- ◯ Uruguay
- ◯ Uzbekistan
- ◯ Vanuatu
- ◯ Venezuela
- ◯ Vietnam
- ◯ Yemen
- ◯ Zambia
- ◯ Zimbabwe
- ◯ Other

6. 6. What is your normal country of residence? *

- Afghanistan
- Albania
- Algeria
- Andorra
- Angola
- Antigua and Barbuda
- Argentina
- Armenia
- Australia
- Austria
- Azerbaijan
- Bahamas
- Bahrain
- Bangladesh
- Barbados
- Belarus
- Belgium
- Belize
- Benin
- Bhutan
- Bolivia
- Bosnia and Herzegovina
- Botswana
- Brazil
- Brunei
- Bulgaria
- Burkina Faso
- Burundi
- Cote d'Ivoire
- Cabo Verde

- Cambodia
- Cameroon
- Canada
- Central African Republic
- Chad
- Chile
- China
- Colombia
- Comoroas
- Congo (Congo-Brazzaville)
- Costa Rica
- Croatia
- Cuba
- Cyprus
- Czechia (Czech Republic)
- Democratic Republic of the Congo
- Denmark
- Djibouti
- Dominica
- Dominican Republic
- Ecuador
- Eqypt
- El Salvador
- Equatorial Guinea
- Eritrea
- Estonia
- Eswatini (formerly "Swaziland")
- Ethiopia
- Fiji
- Finland
- France

- Gabon
- Gambia
- Georgia
- Germany
- Ghana
- Greece
- Grenada
- Guatemala
- Guinea
- Guinea-Bissau
- Guyana
- Haiti
- Holy See
- Honduras
- Hong Kong
- Hungary
- Iceland
- India
- Indonesia
- Iran
- Ireland
- Israel
- Italy
- Jamaica
- Japan
- Jordan
- Kazakhstan
- Kenya
- Kiribati
- Kuwait
- Kyrgyzstan

- ◯ Laos
- ◯ Latvia
- ◯ Lebanon
- ◯ Lesotho
- ◯ Liberia
- ◯ Libya
- ◯ Liechtenstein
- ◯ Lithuania
- ◯ Luxembourg
- ◯ Madagascar
- ◯ Malawi
- ◯ Malaysia
- ◯ Maldives
- ◯ Mali
- ◯ Malta
- ◯ Marshall Islands
- ◯ Mauritania
- ◯ Mauritius
- ◯ Mexico
- ◯ Micronesia
- ◯ Moldova
- ◯ Monaco
- ◯ Mongolia
- ◯ Montenegro
- ◯ Morocco
- ◯ Mozambique
- ◯ Myanmar (formerly Burma)
- ◯ Namibia
- ◯ Nauru
- ◯ Nepal
- ◯ Netherlands

- ◯ New Zealand
- ◯ Nicaragua
- ◯ Niger
- ◯ Nigeria
- ◯ North Korea
- ◯ North Macedonia
- ◯ Norway
- ◯ Oman
- ◯ Pakistan
- ◯ Palau
- ◯ Palestine State
- ◯ Panama
- ◯ Papua New Guinea
- ◯ Paraguay
- ◯ Peru
- ◯ Philippines
- ◯ Poland
- ◯ Portugal
- ◯ Qatar
- ◯ Romania
- ◯ Russia
- ◯ Rwanda
- ◯ Saint Kitts and Nevis
- ◯ Saint Lucia
- ◯ Saint Vincent and the Grenadines
- ◯ Samoa
- ◯ San Marino
- ◯ Sao Tome and Principe
- ◯ Saudi Arabia
- ◯ Senegal
- ◯ Serbia

- ◯ Seychelles
- ◯ Sierra Leone
- ◯ Singapore
- ◯ Slovakia
- ◯ Slovenia
- ◯ Solomon Islands
- ◯ Somalia
- ◯ South Africa
- ◯ South Korea
- ◯ South Sudan
- ◯ Spain
- ◯ Sri Lanka
- ◯ Sudan
- ◯ Suriname
- ◯ Sweden
- ◯ Switzerland
- ◯ Syria
- ◯ Taiwan
- ◯ Tajikistan
- ◯ Tanzania
- ◯ Thailand
- ◯ Timor-Leste
- ◯ Togo
- ◯ Tonga
- ◯ Trinidad and Tobago
- ◯ Tunisia
- ◯ Turkey
- ◯ Turkmenistan
- ◯ Tuvalu
- ◯ Uganda
- ◯ Ukraine

- ◯ United Arab Emirates
- ◯ United Kingdom
- ◯ United States of America
- ◯ Uruguay
- ◯ Uzbekistan
- ◯ Vanuatu
- ◯ Venezuela
- ◯ Vietnam
- ◯ Yemen
- ◯ Zambia
- ◯ Zimbabwe
- ◯ Other

7. Have you been ordinarily resident in the EU/EEA for 3 of 5 years prior to this application ? *

- ◯ Yes
- ◯ No

8. Please indicate whether you are applying as an EU, UK or International student *

- ◯ International student
- ◯ UK student
- ◯ EU student

9. Please indicate where you are interested in studying (tick all that apply) *

- [ ] Dublin City University
- [ ] Maynooth University
- [ ] Munster Technological University
- [ ] National Institute for Bioprocessing Research and Training
- [ ] Royal College of Surgeons Ireland
- [ ] South East Technological University
- [ ] Trinity College Dublin
- [ ] Tyndall Institute
- [ ] University College Cork
- [ ] University College Dublin
- [ ] University Of Galway
- [ ] University of Limerick

10. Please indicate which theme your research Interests align with (tick all that apply) *

- [ ] Advanced Bio-analyitcs & Omics (A&O)
- [ ] Cell Expressed & RNA Therapeutics (CERT)
- [ ] Drug Conjugates & Drug Hybrids (C&H)
- [ ] Sustainable Selective Synthesis (SSS)
- [ ] Drug Particle Engineering (DPE)
- [ ] Dosage Form Design (DFD)
- [ ] Innovation in Patient- Centred Products (PCP)
- [ ] Transforming Engaged Research in (Bio)pharma (TERB)
- [ ] Predictive Materials Design & Model-driven Process Control (PMC)
- [ ] Foundry for Functional Materials (F3M)
- [ ] Novel & Modular Platforms (NMP)
- [ ] Biologics Manufacturing (BM)

11. Please indicate which Funded Investigator your research interests align with *

- [ ] Professor Niall Barron, UCD/NIBRT
- [ ] Associate Professor Jonathan Bones, NIBRT
- [ ] Professor David Brayden, UCD
- [ ] Associate Professor Colin Clarke, NIBRT
- [ ] Professor Denis Dowling, UL
- [ ] Associate Professor Steven Ferguson, UCD
- [ ] Dr Darren Griffith, RCSI
- [ ] Professor Sarah Hudson, UL
- [ ] Dr Ioscani Jimenez del Val, UCD
- [ ] Professor Andrew Kellett, DCU
- [ ] Associate Professor Piotr Kowalski, UCC
- [ ] Associate Professor Matteo Lusi, UL
- [ ] Dr Michael McAuliffe, MTU
- [ ] Professor Anne McFarlane, UL
- [ ] Dr Marco Monopoli, RCSI
- [ ] Professor Paul Murphy, UoG
- [ ] Associate Professor Emmet O' Reilly, UL
- [ ] Dr Niall O' Reilly, SETU
- [ ] Professor Donal O' Shea, RCSI
- [ ] Associate Professor Finbarr O' Sullivan, DCU
- [ ] Associate Professor Luis Padrela, UL
- [ ] Professor Vivek Ranade, UL
- [ ] Professor Jon Salsberg, UL
- [ ] Professor Micheal Scanlan, UL
- [ ] Associate Professor Orest Shardt, UL
- [ ] Dr Mehakpreet Singh, UL
- [ ] Professor Lidia Tajber, TCD
- [ ] Professor Damien Thompson, UL
- [ ] Professor Elizabeth Topp, NIBRT
- [ ] Associate Professor Matthias Vandichel, UL

- [ ] Dr Jessica Whelan, UCD

## Personal Statement

12. Why do you want to study at Rinn Pharma & Biopharma? In your answer please elaborate on what attracts you to our PhD programme as well as to specific university partner(s). Free text max. 200 words *

13. Please explain briefly how your skills and experience have prepared you to undertake PhD research in your chosen field. This should be a general summary considering knowledge, understanding, experimental skills and personal attributes. Applicants who use this space to simply list the lab techniques they have used are unlikely to be successful – please concentrate on the theme areas and the skills/knowledge needed to be successful here. Free text max. 200 words *

## Education

14. Highest Qualification *

- ◯ BA
- ◯ BEng
- ◯ BEng (Hons)
- ◯ BSc
- ◯ BSc (Econ)
- ◯ BSc (Hons)
- ◯ BSci
- ◯ BASc
- ◯ HND
- ◯ LLB
- ◯ MEng
- ◯ MPharm
- ◯ MPhil
- ◯ MRes
- ◯ MSc
- ◯ MSci
- ◯ MSci (Hons)
- ◯ MTech
- ◯ PhD
- ◯ Other

15. Highest Qualification Title *

16. Highest Qualification degree classification/expected classification *

- ◯ 1st class
- ◯ 2.1
- ◯ 2.2
- ◯ 3rd
- ◯ Distinction (MSc or similar)
- ◯ Merit (MSc or similar)
- ◯ Pass (MSc or similar)
- ◯ Expected 1st class
- ◯ Expected 2.1
- ◯ Expected 2.2
- ◯ Expected 3rd
- ◯ Expected Distinction (MSc or similar)
- ◯ Expected Merit (MSc or similar)
- ◯ Expected Pass (MSc or similar)
- ◯ Not awarded in Ireland please specify in next question

17. Highest Qualification overall grade if not awarded in Ireland (please specify maximum as well - e.g. 3.5/4)

18. Qualification Awarding Institution *

- ◯ Atlantic Technological University
- ◯ Dublin City University
- ◯ Mary Immaculate College
- ◯ Maynooth University
- ◯ Munster Technological University
- ◯ National College of Art & Design
- ◯ Pontifical University, St Patrick's College, Maynooth
- ◯ Quality and Qualifications Ireland
- ◯ Royal College of Surgeons Ireland
- ◯ Royal Irish Academy
- ◯ South East Technological University
- ◯ Trinity College Dublin
- ◯ Technological University Dublin
- ◯ Technological University of the Shannon: Midlands Midwest
- ◯ University College Cork
- ◯ University College Dublin
- ◯ University of Galway
- ◯ University of Limerick
- ◯ Other

19. Year Highest Qualification awarded *

- ◯ 2026
- ◯ 2025
- ◯ 2024
- ◯ 2023
- ◯ 2022
- ◯ 2021
- ◯ 2020
- ◯ 2019
- ◯ 2018
- ◯ 2017
- ◯ 2016
- ◯ 2015
- ◯ 2014
- ◯ 2013
- ◯ 2012
- ◯ 2011
- ◯ 2010
- ◯ 2009
- ◯ 2008
- ◯ 2007
- ◯ 2006
- ◯ 2005
- ◯ 2004
- ◯ 2003
- ◯ 2002
- ◯ 2001
- ◯ 2000 or older

20. Do you have another relevant qualification?

- ◯ Yes
- ◯ No

21. Qualification *

- ◯ BA
- ◯ BEng
- ◯ BEng (Hons)
- ◯ BSc
- ◯ BSc (Econ)
- ◯ BSc (Hons)
- ◯ BSci
- ◯ BASc
- ◯ HND
- ◯ LLB
- ◯ MEng
- ◯ MPharm
- ◯ MPhil
- ◯ MRes
- ◯ MSc
- ◯ MSci
- ◯ MSci (Hons)
- ◯ MTech
- ◯ PhD
- ◯ Other

22. Qualification Title *

23. Qualification degree classification/expected classification *

- ◯ 1st class
- ◯ 2.1
- ◯ 2.2
- ◯ 3rd
- ◯ Distinction (MSc or similar)
- ◯ Merit (MSc or similar)
- ◯ Pass (MSc or similar)
- ◯ Expected 1st class
- ◯ Expected 2.1
- ◯ Expected 2.2
- ◯ Expected 3rd
- ◯ Expected Distinction (MSc or similar)
- ◯ Expected Merit (MSc or similar)
- ◯ Expected Pass (MSc or similar)
- ◯ Not awarded in the UK, please specify in next question

24. Qualification overall grade if not awarded in Ireland (please specify maximum as well - e.g. 3.5/4)

25. Qualification Awarding Institution *

- ◯ Atlantic Technological University
- ◯ Dublin City University
- ◯ Mary Immaculate College
- ◯ Maynooth University
- ◯ Munster Technological University
- ◯ National College of Art & Design
- ◯ Pontifical University, St Patrick's College, Maynooth
- ◯ Quality and Qualifications Ireland
- ◯ Royal College of Surgeons Ireland
- ◯ Royal Irish Academy
- ◯ South East Technological University
- ◯ Trinity College Dublin
- ◯ Technological University Dublin
- ◯ Technological University of the Shannon: Midlands Midwest
- ◯ University College Cork
- ◯ University College Dublin
- ◯ University of Galway
- ◯ University of Limerick
- ◯ Other

26. Year Qualification awarded *

- ◯ 2026
- ◯ 2025
- ◯ 2024
- ◯ 2023
- ◯ 2022
- ◯ 2021
- ◯ 2020
- ◯ 2019
- ◯ 2018
- ◯ 2017
- ◯ 2016
- ◯ 2015
- ◯ 2014
- ◯ 2013
- ◯ 2012
- ◯ 2011
- ◯ 2010
- ◯ 2009
- ◯ 2008
- ◯ 2007
- ◯ 2006
- ◯ 2005
- ◯ 2004
- ◯ 2003
- ◯ 2002
- ◯ 2001
- ◯ 2000 or older

27. Do you have another relevant qualification? *

- ◯ Yes
- ◯ No

28. Qualification *

- ◯ BA
- ◯ BEng
- ◯ BEng (Hons)
- ◯ BSc
- ◯ BSc (Econ)
- ◯ BSc (Hons)
- ◯ BSci
- ◯ BASc
- ◯ HND
- ◯ LLB
- ◯ MEng
- ◯ MPharm
- ◯ MPhil
- ◯ MRes
- ◯ MSc
- ◯ MSci
- ◯ MSci (Hons)
- ◯ MTech
- ◯ PhD
- ◯ Other

29. Qualification Title *

30. Qualification degree classification/expected classification *

- ◯ 1st class
- ◯ 2.1
- ◯ 2.2
- ◯ 3rd
- ◯ Distinction (MSc or similar)
- ◯ Merit (MSc or similar)
- ◯ Pass (MSc or similar)
- ◯ Expected 1st class
- ◯ Expected 2.1
- ◯ Expected 2.2
- ◯ Expected 3rd
- ◯ Expected Distinction (MSc or similar)
- ◯ Expected Merit (MSc or similar)
- ◯ Expected Pass (MSc or similar)
- ◯ Not awarded in the UK, please specify in next question

31. Qualification overall grade if not awarded in Ireland (please specify maximum as well - e.g. 3.5/4)

32. Qualification Awarding Institution *

- ◯ Atlantic Technological University
- ◯ Dublin City University
- ◯ Mary Immaculate College
- ◯ Maynooth University
- ◯ Munster Technological University
- ◯ National College of Art & Design
- ◯ Pontifical University, St Patrick's College, Maynooth
- ◯ Quality and Qualifications Ireland
- ◯ Royal College of Surgeons Ireland
- ◯ Royal Irish Academy
- ◯ South East Technological University
- ◯ Trinity College Dublin
- ◯ Technological University Dublin
- ◯ Technological University of the Shannon: Midlands Midwest
- ◯ University College Cork
- ◯ University College Dublin
- ◯ University of Galway
- ◯ University of Limerick
- ◯ Other

33. Year Qualification awarded *

- ◯ 2026
- ◯ 2025
- ◯ 2024
- ◯ 2023
- ◯ 2022
- ◯ 2021
- ◯ 2020
- ◯ 2019
- ◯ 2018
- ◯ 2017
- ◯ 2016
- ◯ 2015
- ◯ 2014
- ◯ 2013
- ◯ 2012
- ◯ 2011
- ◯ 2010
- ◯ 2009
- ◯ 2008
- ◯ 2007
- ◯ 2006
- ◯ 2005
- ◯ 2004
- ◯ 2003
- ◯ 2002
- ◯ 2001
- ◯ 2000 or older

## Research experience

Space is limited to 2 examples of research experience so please select your most relevant research experience.

34. Do you have any previous research experience? *

- ◯ Yes
- ◯ No

35. Research project title/research experience *

36. Location of research project/research experience *

37. What was your research supervisors name *

38. Dates of research project/experience (mm/yyyy-mm/yyyy) *

39. Brief description of the research conducted and your roles and responsibilities (max. 100 words) *

40. Do you wish to add a further research experience? *

- ◯ Yes
- ◯ No

41. Research project title/research experience *

42. Location of research project/research experience *

43. What was your research supervisors name *

44. Dates of research project/experience (mm/yyyy-mm/yyyy) *

45. Brief description of the research conducted and your roles and responsibilities (max. 100 words) *

46. Do you wish to add a further research experience? *

- ◯ Yes
- ◯ No

## Work experience

In this section please share your recent work experience

47. Current or Recent Employer *

48. Dates employed (mm/yyyy - mm/yyyy) *

49. Brief description of your job role and responsilbilities (max. 100 words) *

50. Previous employer *

51. Dates employed (mm/yyyy - mm/yyyy) *

52. Brief description of your job role and responsibilities (max. 100 words) *

53. Do you wish to add another employer? *

- ◯ Yes
- ◯ No

54. Previous employer *

55. Dates employed (mm/yyyy - mm/yyyy) *

56. Brief description of your job role and responsibilities (max. 100 words) *

## Additional Information

In this section please share any prizes and awards, volunteering activity (if relevant) and personal interests.

57. Voluntary experience (max. 50 words) *

58. Prizes and awards (max. 100 words) *

59. Personal interests (max 50. words) *

60. Is there anything else you would like to add (max. 50 words)? *

## Equal opportunities monitoring

Rinn Pharma & Biopharma has a deep commitment to ensuring that students are appointed and promoted on the basis of merit, regardless of ethnic origin, sex or disability, sexual orientation, race, colour, nationality (within current legislation), marital status, caring or parental responsibilities, age, or beliefs on matters such as religion and politics.

Monitoring enables us to see what is happening in practice, to assess the impact of our equal opportunities policy and its implementation, and to set any targets for improvements, and measure progress. To enable us to do this, and to make the exercise successful, we would be very grateful if you could please supply the following details. This information will be held securely. Information from this section will only be used for administrative and monitoring purposes.

Our questions are informed by the Diversity and Inclusion Survey (DAISY) Question Guidance as drafted by EDIS (Equality, Diversity, Inclusion in Science and Health), https://edisgroup.org/wp-content/uploads/2022/05/DAISY-guidance-current-updated-May-2022-V2.pdf

The questions about disability and long-term conditions are asked in different ways. Asking about disability is complex, and these questions will help us to develop a broader understanding and compare with existing statistics, as well as understand the barriers faced so we can work on addressing these. These questions align to the social model of disability. Please answer each question separately and don't feel that your answer to one should determine your answer to the others.

61. Age *

- ◯ 24 or under
- ◯ 25-29
- ◯ 30-34
- ◯ 35-39
- ◯ 40-44
- ◯ 45-49
- ◯ 50-59
- ◯ 60 and over
- ◯ Prefer not to say

62. Do you consider yourself a disabled person?

- ◯ Yes
- ◯ No
- ◯ Prefer not to say

63. Do you experience barriers or limitations in your day-to-day activities related to any health conditions (including mental health), physical, sensory or cognitive differences? *

- ◯ Yes
- ◯ Yes - some/small barriers or limitations
- ◯ No
- ◯ Prefer not to say

64. If yes, please describe what barriers or limitations do you face? Please describe these in whatever way works for you, some examples are included below. Please do not include any identifying information.

**For example these might include:**

- Attitudinal barriers e.g. discriminatory attitudes; negative or incorrect assumptions
- Physical barriers e.g. no step free access to buildings; physical expectations of participating
- Travel or transportation barriers e.g. lack of accessible transport and accommodation
- Communications barriers e.g. lack of information in different accessible formats; lack of BSL interpretation
- Organisational barriers e.g. length of time and when meetings are scheduled limits participation
- Social barriers e.g. expectations in social interactions

*

65. Do you consider yourself to have a disability or long-term condition (such as dyslexia, diabetes, arthritis, a heart condition or a mental health condition)? *

- ◯ Yes
- ◯ No
- ◯ Prefer not to say

66. Do you experience barriers or limitations in your day-to-day activities related any disability, health conditions or impairments? *

- ◯ Not applicable
- ◯ Yes
- ◯ No
- ◯ Prefer not to say

67. What is your ethnic group? *

- ◯ Asian/Asian British - Bangladeshi
- ◯ Asian/Asian British - Chinese
- ◯ Asian/Asian British - Indian
- ◯ Asian/Asian British - Pakistani
- ◯ Asian/Asian British - Any other Asian background
- ◯ Black/Black British - African
- ◯ Black/Black British - Caribbean
- ◯ Black/Black British - Any other Black/African/Caribbean background
- ◯ Mixed/Multiple Heritage - Asian and White
- ◯ Mixed/Multiple Heritage - Black Afrian and White
- ◯ Mixed/Multiple Heritage - Black Caribbean and White
- ◯ Mixed/Multiple Heritage - Chinese and White
- ◯ Mixed/Multiple Heritage - Any other Mixed/Multiple ethnic group or background
- ◯ White - British/English/Northern Irish/Scottish/Welsh
- ◯ White - Irish
- ◯ White - Traveller
- ◯ White - Any other White background
- ◯ Other ethnic group - Arab
- ◯ Other ethnic group - Hispanic
- ◯ Other ethnic group - Latina/Latino/Latinx
- ◯ Any other ethnic group or background
- ◯ Prefer not to say

68. Which of the following best describes your gender? *

- ◯ Man
- ◯ Non-binary
- ◯ Woman
- ◯ Prefer not to say

69. Do you identify as trans? *

- ◯ Yes
- ◯ No
- ◯ Prefer not to say

70. Which of the following best describes your sexual orientation? *

- ◯ Asexual
- ◯ Bi/bisexual
- ◯ Gay man
- ◯ Gay woman/lesbian
- ◯ Queer
- ◯ Straight/heterosexual
- ◯ Pansexual
- ◯ I identify in another way
- ◯ Prefer not to say

## Data Protection

Rinn Pharma & Biopharma processes your personal data in order to provide its services to you. Privacy Notices, which explain how we process your personal data and the rights you have with respect to your personal information, are available for each site.

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