

Template for Advertising Research Funded Posts

Instructions: This template should be used for advertising research funded posts and completed by the Principal Investigator.

College	Medicine & Health
School/Research Institute/Centre/Unit	School of Pharmacy and Department of Anatomy & Neuroscience
Post Title	Post-Doctoral Researcher
Project	Nanotherapeutics for brain disorders
Name of Principal Investigator /Reports to	Professor Caitriona O'Driscoll
HR Administrator	Please email advertisement to Laura McSweeney / Niamh Buckley in HR, email l.mcsweeney@ucc.ie ; Niamh.buckley@ucc.ie
HR Competition No.	To be completed by HR

Position Summary

PI can insert an opening paragraph or introductory text on the Department or Research Centre or on the research position. The PI can include other duties and responsibilities which are specific to the post.

This project is funded by CURAM, the National Centre for Research in Medical Devices, backed by Science Foundation Ireland and industry funding.

This post will be located in a multidisciplinary environment at the interface between the pharmacodelivery group and the neuroscience group in the state-of-the-art facilities in the School of Pharmacy at UCC. It will be co-supervised by Profs John F Cryan and Caitriona O'Driscoll.

The concept of utilising nucleic acids including siRNA or miRNA to manipulate genes for therapeutic purposes is well known. However, the ability to translate this concept into a gene medicine has to date been limited by the availability of safe and effective delivery systems. Significant opportunities exist to apply RNAi effectors in the treatment of neurodegenerative diseases provided the barriers to delivery including permeability across the Blood Brain Barrier (BBB) can be overcome. This project involves the design and formulation of nano-delivery technologies to complex, protect and deliver nucleic acid cargos to the brain. The work will also involve establishing and validating physiologically relevant BBB models to effectively assess the performance of prototype nano-complexes.

This project will build on the long standing collaboration between the Cryan and O'Driscoll labs, which unites expertise in neuropharmacology and drug delivery technology and has a proven track record in joint peer reviewed publications.

We are seeking to appoint an enthusiastic, highly motivated scientist with a strong interest in drug delivery &/or neuroscience and an ability to work to a high standard with a proven track record in publishing papers in peer review journals. This position offers the opportunity to work in a multidisciplinary environment involving chemists, drug delivery scientists, neuroscientists and clinicians. The project is translational in nature and patient focused.

[IUA Salary Scale](#) Yes No

Personal Rate Yes No

Salary: €37,221

Post Duration: 12 months (with potential for renewal)

Key Duties and Responsibilities

- To conduct a specified programme of research under the supervision and direction of a Principal Investigator/Project Leader.
- To engage in appropriate training and professional development opportunities as required by the Principal Investigator, School or College in order to develop research skills and competencies.
- To gain experience in grant writing.
- To engage in the dissemination of the results of the research in which they are engaged, as directed by, with the support of and under the supervision of a Principal Investigator.
- To become familiar with the publication process.
- To acquire generic and transferable skills (including project management, business skills and postgraduate mentoring/supervision).
- To engage in the wider research and scholarly activities of the research group, School or College.
- To interact closely with postgraduate research students who are studying for a Masters or a PhD and possibly have an agreed role in supporting these students in their day to day research in conjunction with an academic supervisor.
- To carry out administrative work to support the programme of research.
- To carry out additional duties as may reasonably be required within the general scope and level of the post.
- To contribute to costing research grant proposals and assist in the financial management of a research project.

CRITERIA

- A PhD qualification.
- A promising publication record in a relevant discipline e.g. Neuroscience, Pharmacy, Pharmaceutical technology, Biochemistry or Genetics.
- Appropriate research experience including nanotherapeutics, cell culture and in vivo animal models
- A solid knowledge of chemistry is desirable.
- Appropriate technical competence and accomplishment.
- Ability to work within a project team to achieve results.
- Good communication, organisation and interpersonal skills.
- A commitment to gaining practical experience working on a research project.
- Please note that Garda vetting and international police clearance check may form part of the selection process.

For Informal Enquiries on the post candidates should contact:

Name: Prof John F Cryan, or Prof Caitriona O'Driscoll,
Email Address: cryanlab@ucc.ie; or caitriona.odriscoll@ucc.ie
Telephone: 00 353 21 4901396 or 00 353 21 4905426

To Apply:

Please submit a short cover letter and C.V. with the names of two referees to Professor Caitriona O'Driscoll caitriona.odriscoll@ucc.ie, 00353214901396 or to Professor John F Cryan cryanlab@ucc.ie 00353214905426 by 31 May 2019. Only shortlisted applicants will be contacted.

Supplementary Information on the Department/Research Centre and the post is available at the following URL:www.ucc.ie/en/pharmacy

Please email the completed Job Description to Laura McSweeney / Niamh Buckley in HR to advertise along with the Research Funded Post Proposal (PF4) form.