



4 year Full-time PhD Studentship (Allergy, Inflammation & Remodelling)

Applications are sought for a highly ambitious PhD Student to conduct research within the Allergy, Inflammation & Remodelling Research (AIRR) Laboratory of Dr. Joanne Masterson. Dr. Masterson is a recognised leader in her field, with a significant publication track record. The successful candidate will join her multi-disciplinary programme of research aiming to investigate novel mechanisms of disease, related to the translation of molecular therapies for food allergic, eosinophilic gastrointestinal disease (EGID) including Eosinophilic Oesophagitis (EoE). This program will explore the intersection of epithelial cell plasticity, metabolism and mucosal immunobiology.

Research in the AIRR lab aims to explore mechanisms combining molecular, cellular and whole organism approaches, bridging our knowledge of developmental and environmental signals that may regulate epithelial cell status and function, and how these processes relate to physiology and pathophysiology in EGIDs such as Eosinophilic Esophagitis (EoE) and Inflammatory Bowel Disease. The research will combine state-of-the-art approaches in molecular biology, biochemistry, cell and developmental biology, transcriptomics, immune signalling, mouse models and patient specimens with the aim of defining novel therapeutic targets. The PhD student will receive training in *in vivo*, *in vitro* and *ex vivo* models of disease.

Students with an honours Bachelor degree (grade 2.1 or above) in Biomedical Sciences, Developmental Biology, Molecular Biology, Immunology or closely related discipline are encouraged to apply. Candidates should be highly motivated, driven, ambitious, conscientious, display a high level of initiative with excellent written and oral communication skills and knowledge of general laboratory techniques. In addition, applicants should have the ability to work independently and integrate as part of a team. Candidates will possess experience in some of the following techniques:

- Cell culture and associated techniques
- Molecular biology techniques
- Microscopy and quantitative analysis

This post is funded by the financial support of Science Foundation Ireland (SFI), for up to a maximum of four years with a full-time stipend (plus fees). The start date for the PhD is September 1st 2019.

All informal enquiries welcomed to Dr. Joanne Masterson (Joanne.Masterson@mu.ie)

Application Procedure

Closing date for applications is **noon (IST) Tuesday 23rd July**. Interviews will be held in mid-late July.

Please email a one-page Cover Letter outlining your suitability for the post, your full CV and details of two referees (incl. email addresses) with the subject line 'AIRR lab PhD application' to Joanne.Masterson@mu.ie. Applications should be submitted as one .pdf file. Acknowledgement of receipt of your CV will not be made. You will receive an update on your application following shortlisting.

**Maynooth University is an equal opportunities employer
The position is subject to the Statutes of the University**

