



Applications are invited for the following a PhD studentship for the following project:

Novel nanomaterials for controlled gene delivery

The position will be based with the Drug Delivery and Advanced Materials (DReAM) team led by Prof. Sally-Ann Cryan as part of the RCSI Tissue Engineering Research Group (TERG) within the School of Pharmacy & Dept of Anatomy, Royal College of Surgeons in Ireland and be part of the Materials for Health platform within the Advanced Materials and Bioengineering Research Centre (AMBER) centre.

Summary of project

Applications are invited for this position in drug delivery and tissue engineering research to be carried out under the supervision of Profs. Sally-Ann Cryan, Andreas Heise & Fergal O'Brien.

This project will focus on design and development of functional polymers as (nano)medical devices for tissue engineering and biotherapeutics delivery. This specific PhD project will involve the development and in vitro and in vivo characterisation of smart scaffolds as bioactive delivery systems for genes for tissue repair.

The research therefore will be based on strong links between materials science, gene therapy, engineering design, biological performance and clinical need and the researcher will work closely with other members of a multidisciplinary project team including PIs, clinicians, postdoctoral and postgraduate researchers in the Drug Delivery & Advanced Materials team (<https://www.trendmaterials.com/>) as part of the RCSI Tissue Engineering Research Group (<http://www.rcsi.ie/tissueengineering>). The student will be provided with a well-supported environment including; a multidisciplinary supervisory team, access to taught post-graduate courses and an opportunity to work closely with other Centre teams as well as with industry partners.

The ideal applicants will have a 1st Class Honours Bachelor's degree or MPharm or MSc degree in pharmacy, pharmacology, bioengineering, genetics, materials science or relevant life sciences. Experience in gene therapy, drug delivery, scaffolds for tissue engineering, controlled release mechanisms and cell culture techniques desirable.

The researcher will work closely with other members of a multidisciplinary project team. Excellent written and oral communication skills are essential.

How to apply:

CVs with the names and addresses of three referees should be submitted to: *Prof. Sally-Ann Cryan* (scryan@rcsi.ie)

Positions will remain opened until filled but preferred start date is [September 2 2019](#). Only short-listed applications will be acknowledged.

This position is funded by the SFI-research centre AMBER.

The AMBER research centre, as a community of researchers, welcomes its responsibility to provide equal opportunities for all. We are actively seeking diversity in our research teams and particularly encourage applications from underrepresented groups.

