# PGR Studentship Information Template 2020 entry

* Please complete the template with as much information as possible.
* \*fields are essential.
* If you have information that does not have a label, please create a new row in the table for it.

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| **\*Title of studentship** | Development of long-acting drug delivery platform (LADDP) to treat chronic disorders |
| **Value / what is covered?** |  |
| **Awarding body** |  |
| **Number of studentships** |  |
| **\*Summary descriptive text / Example of research project** | LADDPs can offer significant advantages over traditional delivery systems by reducing the frequency of drug administration such as in the treatment of cancer, schizophrenia and pain. The LADDPs can result in improved patient compliance, cost savings for the healthcare and adherence – thereby providing better therapeutic outcomes.  During this research project the student will work on in situ depot forming injectable LADDP, which will involve synthesis and characterisation of novel polymers; physico-chemical and mechanical characterisation of depot forming implants. Develop models to investigate implant degradation. Develop a range of analytical techniques for testing the compatibility of molecules with polymeric matrices, investigate factors affecting drug loading and in vitro release. The student will also be involved in developing bespoke ex vivo disease models to test the implant performance. |
| **\*Supervisor(s)** | Dr Thakur R R Singh; Dr Dimitrios Lamprou |
| **\*Eligibility / residence Status** | UK/EU or non-EU |
| **Country** | Northern Ireland |
| **\*Start date and duration** | 1 October 2021, 3 yrs |
| **\*Faculty** | MHLS |
| **\*Research centre / School** | Pharmacy |
| **Subject area** | Pharmacy, Pharmaceutical Sciences, or Polymer science, drug delivery |
| **Candidate requirements / Key skills required for the post** | Applicants should have a 1st or 2.1 honours degree (or equivalent) in a relevant subject. Relevant subjects include Pharmacy, Pharmaceutical Sciences, polymer science, chemical engineering or a closely related discipline. Students who have a 2.2 honours degree and a Master’s degree may also be considered, but the School reserves the right to shortlist for interview only those applicants who have demonstrated high academic attainment to date |
| **\*Deadline for applications** | Open deadline |
| **\*How to apply / contacts** | Postgraduate Research applicants for Pharmacy who are interested in applying for a fully funded DFE studentship must have applied to Queen’s, via the Direct Applications Portal, and submitted all required supporting documents by the closing date, which will be announced later in the Academic year.  <https://dap.qub.ac.uk/portal/user/u_login.php> |
| **Relevant links / more information** | <http://www.qub.ac.uk/schools/SchoolofPharmacy/Research/PostgraduatePositions/>  <http://www.qub.ac.uk/schools/SchoolofPharmacy/Research/> |
| **Keywords for search filters** | Long-acting drug delivery, controlled release, polymer implants, biologics, protein delivery |
| **Training provided through the research project** | Students will get training in pharmaceutical formulation; pharmaceutical analysis; microbiology; and mathematical modelling. In addition, students will be trained in a wide range of R&D related activities throughout the PhD program that will enable them to become an independent research and/or ready for industrial positions. It will also provide opportunity for the PhD student to present their research at national and international conferences |
| **Expected impact activities** |  |