

## School of Pharmacy PhD Project 2016 / 2017

Development of a continuous manufacturing platform for production of lipid-based drug delivery systems

Professor G Andrews, Dr Y Tian and Professor D Jones

During the last five years nanomedicine has observed an unprecedented growth, with future predictions valuing the market at \$220 million by 2020. Nanomedicine delivery vehicles are utilised in the treatment of many different diseases including, cardiovascular disease, neurodegenerative disease, diabetes, cancer and inflammatory conditions. However, there are many technical and business challenges preventing the full adoption of this formulation strategy, of which high cost and complexity in the manufacture of robust delivery platforms are primary issues. In this project the PhD candidate will work alongside the Pharmaceutical Engineering Group in the School of Pharmacy to address this fundamental issue. The candidate will also have the opportunity to work alongside with other world-leading pharmaceutical research centres to combat these challenges. This aim of this exciting 42-month project is to investigate the use of continuous manufacturing as a means of producing robust nano-based drug delivery platforms.

### General Email Enquiries

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### Project Email Enquiries

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### How to Apply

Postgraduate applications should be made using Queen's University [Direct Applications Portal](#). Please note that there are two application processes: one for admission to the university and another for postgraduate awards.

### Further Information

Additional information for prospective postgraduate students can be found on the [School of Pharmacy website](#) and the [Queen's Postgraduate website](#).