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| **\*Title of studentship** | Queen’s University Belfast-China Scholarship Council funded studentship |
| **Value / what is covered?** |  |
| **Awarding body** |  |
| **Number of studentships** | 1 |
| **\*Summary descriptive text / Example of research project** | ‘Advanced manufacturing of paediatric formulations with poorly water soluble drugs’  This project employs an advanced manufacturing technique, microwave-induced *in situ* amorphization, in combination with a wide range of characterization techniques to tackle the consistent stability issue of amorphous solid dispersions as a means of improving the dissolution performance of paediatric personalised formulations with poorly water soluble drugs. |
| **\*Supervisor(s)** | Dr Min Zhao; Prof Gavin Andrews |
| **\*Eligibility / residence Status** | Open for both home and international students |
| **Country** | Northern Ireland |
| **\*Start date and duration** | June 2023 (3 years) |
| **\*Faculty** | MHLS |
| **\*Research centre / School** | Pharmacy |
| **Subject area** |  |
| **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, Biochemistry, Biological/Biomedical Sciences, Chemistry, 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** | 30th January 2023 (DfE Applications) – Open year round for International applicants |
| **\*How to apply / contacts** | Postgraduate Research applicants must have applied to Queen’s, via the Direct Applications Portal.  <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** | advanced manufacturing; poorly water-soluble drugs;  *in situ* amorphization; paediatric formulation; individualization |
| **Training provided through the research project** | In situ Microwave Amorphization  Spray drying  Thermal Analysis (DSC & TGA)  X-ray Powder Diffraction  Scanning Electron Microscopy |
| **Expected impact activities** | Validation of the translational and commercial potential of the paediatric formulation platform;  Creation of a spin-out once the robust platform is established. |