



Full-Time PhD Studentship

Pharmaceutical Technology

Faculty of Health & Life Sciences

Applications are invited for a fully funded three-year PhD studentship starting in October 2009. The studentship includes a bursary of £12,600 per annum (tax-free) for three years and all tuition fees.

Candidates should hold a good first degree (at least an Upper-Second Class or equivalent) in a relevant subject area.

Project: Manufacturing Process Efficiency of Roller Compaction using On-line Terahertz Measurements.

Roller compaction is one of the operations in the dry granulation process, which produces granules with optimal flow properties; compaction properties, uniform composition, and chemical/physical stability. It is a pivotal process in the manufacture of tablets.

This PhD program will research the application of terahertz imaging and spectroscopy as a potential on-line process control methodology for improving productivity and process efficiency. Specifically the project will research the impact of the roller compaction process on (i) the uniformity of densification within the compacts, and (ii) the properties of the crystalline and semi-crystalline powders (i.e. formation of amorphous domains in crystalline powder). These parameters will be correlated with the quality and properties of the final tableted product – including capping, density uniformity, porosity, friability and dissolution rate.

For further details on this project please contact Dr Geoff Smith (Tel : 0116-250-6298 ; Email gsmith02@dmu.ac.uk t)

Applications are welcome from citizens from the EU and those with overseas status as well as those from UK. Candidates for whom English is not their first language should hold an English qualification at least equivalent to IELTS 6.5.

Enquiries should in the first instance go to the Research Office, De Montfort University, Leicester, LE1 9BH
Telephone: 0116 2506309. Web: <http://www.dmu.ac.uk/research/index.jsp>

Closing Date: 5th June 2009

An application form may be downloaded from:
<http://www.dmu.ac.uk/research/degrees/procedure.jsp>

Applicants are requested to contact the office to receive a hardcopy admission pack and will need to provide a full CV with two supporting references. Please e-mail: researchstudents@dmu.ac.uk or call (0116) 2506309 to receive further details.