



<b>Position Title</b>	PhD Studentship - Design and exploration of Immobilised Transition Metal Catalysts in Continuous Flow Processing for API synthesis
<b>Project Abstract</b>	<p>Success in the discovery, development and marketing of new pharmaceuticals requires excellence at the outset in medicinal chemistry research to identify new compounds with desired activity, and minimal side effects, right through to outstandingly efficient, reproducible, safe, economic manufacturing processes where the chemical transformations are conducted at very large scale to produce active pharmaceutical ingredients to be formulated into medicines. Developing efficient green approaches for large scale API synthesis is a priority and use of continuous flow is a particularly valuable addition to the process chemistry toolkit.</p> <p>In this project development of immobilised heterogeneous catalyst ligand systems for synthetic applications will be undertaken, with a particular focus on using packed bed reactors as solid phase catalysts in continuous flow systems. The objective is to have a series of robust, well characterised materials which can be utilised in an exchangeable manner across a range of synthetic processes – a plug and play approach. The opportunity to investigate the solid state form of these materials within Amber opens exciting new opportunities to us.</p>
<b>Experience</b>	The PhD position is funded for 4 years, including a monthly stipend and materials and travel budget. Applicants should hold a minimum of an honours bachelor's degree at 2:1 level or equivalent in a relevant subject such as Pharmacy/Chemistry.
<b>Funding</b>	The studentship will cover fees up to €5,500 pa and a stipend of €18,500 pa
<b>Location</b>	University College Cork
<b>Closing Date</b>	Friday 29 <sup>th</sup> June 2018
<b>For more information contact</b>	<a href="mailto:a.maguire@ucc.ie">a.maguire@ucc.ie</a> ; 021-490-1694

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