

## Development Scientist (Drug Delivery)

<b>Work Base</b>	The Pharmaceutical & Molecular Biotechnology Research Centre (PMBRC) at Waterford Institute of Technology
<b>Salary</b>	<p><b>Stipend:</b> €15,000 - €18,000 per annum</p> <p><b>Duration:</b> 3 years 3 months</p> <p><b>Start Date:</b> 1<sup>st</sup> Oct 2011</p>
<b>Qualification/Experience Required</b>	The successful candidate should have a 1 <sup>st</sup> or higher 2 <sup>nd</sup> class honours degree in chemistry, material science, analytical science, pharmacy or equivalent. Knowledge of the use of modern analytical equipment such as GCMS, Polymer characterisation techniques, FTIR and NMR would be an advantage. Experience / knowledge of polymers or polymer science would be beneficial, particularly in the area of molecular imprinted polymers and use of polymers in novel drug delivery applications. A good level of generic skills such as literature review skills, use of on-line databases, report writing would also be an advantage.
<b>Job Description</b>	<p>Mucoadhesive polymeric materials offer an interesting means of achieving drug delivery of therapeutic agents to specific targets within the body. A mucoadhesive device is one which is capable of forming an adhesive bond with a mucosal membrane for sustained periods of time.</p> <p>This development scientist will have a key role in the WINSS project. The aim of their work will be to:</p> <ul style="list-style-type: none"> <li>• Carry out an extensive literature survey on the techniques and applications of controlled drug release from mucoadhesive polymeric materials.</li> <li>• Target analytes will be selected through consultation with clinical partners to investigate the potential of mucoadhesive polymeric materials as drug delivery platforms.</li> <li>• Specifically the candidate will design, synthesis, characterise and formulate mucoadhesive polymers for controlled ocular drug delivery.</li> <li>• The candidate will also be involved in the development and delivery of a continuous professional development program for use in industry.</li> <li>• Publish their findings in peer-reviewed journals.</li> <li>• Present their findings at international and national conferences.</li> <li>• Produce a Ph.D. thesis.</li> </ul>



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