

## Development Scientist (Medical Devices)

<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, polymer engineering, pharmacy or equivalent. Knowledge of the use of modern analytical equipment such as GPC, polymer characterisation techniques, FTIR, NMR would be an advantage. Experience / knowledge of polymers or polymer science would be beneficial, particularly in the area of polymerisation kinetics, clinical and regulatory affairs 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>This development scientist will have a key role in the WINSS project. The aim of their work 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 contact lenses.</li> <li>• Carry out research into the development of drug eluting contact lenses:             <ul style="list-style-type: none"> <li>○ This research will involve all aspects of lens design and manufacture including drug elution profiling and optimisation. Additionally, methods of activating the controlled release product when placed on the eye would need to be explored (i.e. is it a simple diffusion controlled release? is it pH modulated, temperature modulated?) Molecular imprinting of actives on the lens may be a strategy while adding molecules to the lens formulation that do not negatively affect optical clarity but would slow the release of an active agent could be another.</li> </ul> </li> <li>• The candidate will 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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