



Position Title	PhD Studentship – Corrosion and Surface Properties of Medical Implant Devices
Project Abstract	<p>DePuy Synthes' strong focus on patient safety, quality and innovation drives continuous research activities for product and manufacturing process development and optimization. Increasing demand from the market and rising regulatory requirements have recently brought corrosion resistance of surgical implants and instruments into focus. This project will involve an electrochemical study on the corrosion resistance of surgical instrument materials and products with the goal of gaining deeper insights into the influence of individual and combined manufacturing process parameters on the final performance of the product.</p> <p>Manufacturing processes of interest include heat treatment, bead blasting, electrochemical finishing, cleaning and laser etching. The candidate will carry out a well-structured research programme with exposure to multidisciplinary and international research teams across the several plants in Ireland and Switzerland.</p>
Experience	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 Materials Science/Chemistry. Candidates should also have a strong interest in Electrochemistry, Corrosion, Surface Science, Physical Chemistry and Laser Technology. Fluency in English required with German or French an advantage.
Funding	The studentship will cover fees up to €5,500 pa and a stipend of €18,500 pa
Location	Trinity College Dublin. Some travel to industry and in Europe may be required.
Closing Date	Friday 29 th June 2018
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