



DCU WATER INSTITUTE PRINCIPAL INVESTIGATORS

PI NAME:	Dr Lorna Fitzsimons
SCHOOL:	School of Mechanical and Manufacturing Engineering
PI INFORMATION:	<p>Biography Dr Lorna Fitzsimons (BEng, PhD) is a Lecturer in the School of Mechanical and Manufacturing Engineering, Dublin City University. Currently, she is coordinator of an Irish EPA Medium Scale project (2013-2015) located between DCU and NUIG. The focus of this project is to benchmark and optimise the resource efficiency of Irish Waste Water Treatment Plants (WWTP) using a multi-faceted approach (LCA, Exergy Analysis and Process Control). Other research projects and interests include desalination, the use of exergy analysis to optimise the energy consumption of water treatment and purification processes (desalination, semiconductor manufacturing Ultra-Pure Water plants, Wastewater Treatment Plants), and several energy efficiency and environmental monitoring projects. She previously worked as a postdoctoral researcher in the Marine and Environmental Sensing Technology Hub (MESTECH) where the focus of her research was environmental monitoring and environmental sensor development.</p> <p>Expertise Lorna's expertise is in the area of Exergy Analysis and Process Control in relation to water treatment and purification processes.</p>

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