

**enviroCORE**  
**Current Research Students**

<b>Researcher</b>	<b>Project title</b>	<b>Supervisors</b>
Ms. Navodita Bhatnagar	Influence of exogenous enzymes on Biogas production and productivity	Dr. An-Marie Enright, Dr. David Ryan  Dr. Richard Murphy (Alltech)
Ms. Sinead Morris	Microbial bioremediation and physiochemical treatment of landfill leachate	Dr. Guiomar Dunne Dr. Ann-Marie Enright Dr. David Ryan
Ms. Annija Lace	Optochemical detection strategies for heavy metals in water	Dr. John Cleary
Ms. Ashling Dunne	Investigating the novel bacterium <i>Ensifer adhaerans</i> OV14 the putative replacement for Agrobacterium mediated gene transfer in commercially viable crops	Dr. Guiomar Dunne Dr. Ann-Marie Enright Dr. David Ryan
Mr. Edward Lannigan	The effectiveness and commercial potential of a Novel Bioswale System for the treatment of farm yard waste water (FYWW)	Dr. Kieran Germaine Dr. David Dowling
Ms. Mary Fitzpatrick	Development of a green waste management approach with potential application to the tourist industry	Dr. Thomae Kakouli-Duarte Dr. Andrew Lloyd
Mr. Laurence Kavanagh	Lithium in the Blackstairs - quantify its presence	Dr. Guiomar Dunne Dr. Andrew Lloyd
Mr. Christopher Finnegan	Bioremediation of Tributyltin (TBT) in Irish marine sediments: Microbial screening and process optimisation.	Dr. Guiomar Dunne Dr. Ann-Marie Enright Dr. David Ryan
Ms. Ridhdhi Rathore	Effects of Agricultural practices on the microbiome associated with Oilseed rape crops.	Dr. Kieran Germaine Dr. David Dowling
Mr. Laurence O'Neill	An investigation into the cytokine profile of arthritis patients	Dr. Rosemary O'Hara
Ms. Sandra Bohan	Could serum amyloid-A be used as a biomarker in environmental science?	Dr. Rosemary O'Hara
Mr. Samuel Kiwanuka	Genome sequence analysis of endophytic Pseudomonas strains.	Dr. Kieran Germaine Dr. David Dowling

Mr. Samuel Moran	Establishing correlations between circadian sequence variation and longevity and diapause in insects	Dr. Thomae Kakouli-Duarte
Mr. Richard Lally	Development of endophytic biofertilisers systems for enhancing bio-energy crop production	Dr. David Ryan Dr. Kieran Germaine Dr. David Dowling Dr. Thomae Kakouli-Duarte Dr. Andrew Lloyd
Ms. Mary-Jo Hurley	An investigation on the interactions between entomopathogenic nematodes and bacterial endophytes isolated from bioenergy crops	Dr. Thomae Kakouli-Duarte
Ms. Emma Smullen	Pre-treatment of lignocellulose biomass material for efficient bioethanol fermentation	Dr. Patrica Mulcahay
Ms. Aoife Egan	An investigation on the interactions between plant parasitic nematodes and bacterial endophytes	Dr. Thomae Kakouli-Duarte
Mr. John Culhane	Enhancing bioremediation potential of biofuel crops using plant associated bacteria.	Dr. Dina Brazil Dr. David Dowling
Mr. John Byrne	Integrated constructed wetlands and pathogen removal: The development of an Environmental Decision Support System (EDSS)	Dr. Dina Brazil Dr. David Dowling