



Institute of Technology

Ciência sem Fronteiras / Science Without Borders

Postgraduate Project Template

Institution:	Institute of Technology Sligo
Title of Postgraduate Opportunity: (include level of study)	Masters by Research / PhD An investigation into the compatibility and effectiveness of linking Brazilian carbon mitigation and trading strategies with the EUETS (European Union Emissions Trading Scheme).
PI Name & Contact Details:	Mr. Steve Tonry Tel: +353 (0)71 9155256 Email: tonry.steve@itsligo.ie
Department/School:	Department of Environmental Science School of Science
Research Centre /Group:	Centre for Sustainability
Research Centre/Group website:	http://itsligo.ie/research-innovation/research-welcome/research-groups/centre-for-sustainability/
<p>Brief Summary of PI research / research group /centre activity</p> <p>Brief Summary of PI research:</p> <ul style="list-style-type: none"> • Economic instruments to achieve EU key greenhouse gas emissions reduction targets. • Algal based carbon capture and biofuel production applications. • Energy and Waste research. <p>Research Centre/Group:</p> <p>The Centre for Sustainability was established by Dr John Bartlett in 2001 to focus interdisciplinary research in sustainability. To date, the Centre's activities have been in seven main thematic areas:</p> <ul style="list-style-type: none"> • Biosolids treatment and reuse • Treatment of and energy recovery from farm wastes • Access to environmental information, decision making and justice • Renewable fuels from marine biomass • Bog rehabilitation • Wastewater Treatment Optimisation • Applied Ecology 	

In addition, the Centre is a partner in a UCD led research programme on water conservation. This proposed programme of research is closely aligned and will be fully integrated into the Centre for Sustainability.

Brief Description of Masters or PhD Project

An investigation into the compatibility and effectiveness of linking Brazilian carbon mitigation and trading strategies with the EUETS (European Union Emissions Trading Scheme).

- The EUETS as introduced in 2005 is a key policy instrument for Europe to reduce emissions of carbon dioxide and other greenhouse gases. The Scheme is based on the principle of cap and trade (emissions trading).
- The EUETS will shortly enter Phase III (2013-2020), with significant changes proposed to how the scheme operates.
- Brazil’s first emissions trading scheme (ETS) covering large emitters in Rio de Janeiro is currently being developed.
- This project will examine possible linkages between the Brazilian developing scheme, the EUETS and any future potential Global scheme. The project will also examine the impact of these schemes on certain common industrial sectors to both jurisdictions.

Key Attributes of Project for Brazilian Postgraduate Students

The Centre for Sustainability is associated with the oldest Environmental Science and Technology undergraduate programme in the State. It has built up a significant number of research collaborations, with whom contact can be developed for Brazilian postgraduate students, as appropriate.

This research project will allow the student to engage with Irish and European stakeholders (e.g. Industry, Regulators and Verifiers) who are currently associated with the EUETS. Furthermore and importantly, they will be in a position to keep abreast of Brazilian policy in relation to carbon strategies with the potential to make valued input into their on-going development.

Name and contact details for project queries, if different from PI named above:

As above

Please indicate graduate disciplines which are eligible for application:

1. Environmental Science
2. Energy/Environmental Engineering
3. Energy/Environmental Economics

Alignment with Science Without Borders Priority Areas:

Engineering and other technological areas	
Pure and Natural Sciences (e.g. mathematics, physics, chemistry)	
Health and Biomedical Sciences	
Information and Communication Technologies (ICTs)	
Aerospace	
Pharmaceuticals	
Sustainable Agricultural Production	
Green Chemistry	
Oil, Gas and Coal	
Renewable Energy	

Minerals	
Biotechnology	
Nanotechnology and New Materials	
Climate Change	✓
Biodiversity and Bioprospection	
Marine Sciences	
Productive Inclusion and Social Technologies	
Housing and Sanitation	