



## **Institute of Technology**

### **Ciência sem Fronteiras / Science Without Borders**

#### **Postgraduate Project Template**

<b>Institution:</b>	Institute of Technology, Sligo
<b>Title of Postgraduate Opportunity:</b> (include level of study)	PhD in Environmental Science Aquatic invasive species: Impacts on Ecosystem and Economy Water quality: Impacts and management
<b>PI Name &amp; Contact Details:</b>	Dr. Frances Lucy, Dept. of Environmental Science, Institute of Technology, Sligo, Ash Lane, Sligo, Ireland  <a href="mailto:lucy.frances@itsligo.ie">lucy.frances@itsligo.ie</a>
<b>Department/School:</b>	Dept. of Environmental Science
<b>Research Centre /Group:</b>	Environmental Science
<b>Research Centre/Group website:</b>	<a href="http://www.itsligo.ie">www.itsligo.ie</a>
<b>Brief Summary of PI research / research group /centre activity</b> Aquatic invasive species: Impacts on Ecosystem and Economy Water quality: Impacts and management	
<b>Brief Description of Masters or PhD Project</b> Population Dynamics and Socio-economic Impacts Studies on two Freshwater Invasive Species in Ireland	
<b>Key Attributes of Project for Brazilian Postgraduate Students</b> This research combines science and socioeconomics. The student will have an opportunity to study ecology with an internationally recognized invasion biologist (supervisor) and will also interact with several Irish state agencies and local industry. The research will also involve a socioeconomic study on the impacts the species (zebra mussel and Asian clam) have on recreational activities and regional industry. Other research groups working on aquatic invasive species will be consulted during the PhD and the student will attend several conferences including the International Conference on Aquatic Invasive Species (ICAIS.org). The supervisor is a member of the Technical Committee for this conference series. The PhD is innovative because it combines science with relevant socioeconomic factors. IT Sligo (Ireland) is well positioned for such a study due to a high level of networking and interaction between the Institute, agencies and industry. This is in part due to the small size of the	

country, in which it has an advantage over Brazil.

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

As Above

**Please indicate graduate disciplines which are eligible for application:**

Ecology, Environmental Science, Zoology, socioeconomic science

**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	