

PhD Environmental Life Cycle Assessment

University College Dublin

BEACON Bioeconomy Research Centre is a Science Foundation Ireland Research Centre performing both blue skies and industry focused research to build and support the development of Ireland's bioeconomy. The Centre brings together a team of researchers from across a range of disciplines including biotechnology, systems and synthetic biology, chemistry, chemical and bioprocess engineering, agri-food, agriculture, animal and human nutrition, marine, business and social sciences. The centre represents a national collaboration between University College Dublin, Trinity College Dublin, Teagasc, National University of Ireland, Galway, University of Limerick and industry partners.

Project Details:

This PhD, contributing to the work of the *Knowledge Platform for a Sustainable Bioeconomy* will be hosted in the UCD School of Biosystems and Food Engineering. It will focus on theoretical development of eLCA for use with innovative and emerging bioeconomy supply chains and products, considering issues such as system boundary, function and functional unit, attributional vs. consequential approaches, data and data pedigree, uncertainty and risk. The candidate will work within the team to develop a modelling approach that can evolve with a technology from Technology Readiness Level (TRL) 1-3 up to TRL 7-9. The ideas will be tested 'in the field' using case studies of industry partners in the BEACON Centre.

Eligibility Criteria:

- Either BSc, BE, BAgSc (or equivalent) 2.1 degree or MSc, ME, MAgSc (or equivalent degree)
- Evidence of numeracy (mathematics and / or statistics)
- Knowledge of
 - agriculture or marine resources
 - biology
 - LCA
 - environmental impact
- Demonstrable interest in sustainable bioeconomy

How to apply:

Submit an electronic copy of your Curriculum Vitae (to include the names and contact details of two academic referees) and a cover letter outlining your motivation to:

Professor Nicholas M. Holden at Nick.Holden@ucd.ie

Closing date:

- **The search will finish when a suitable candidate is found**
- **This search will finish 31 October 2018**

For information on studying at UCD and the supports provided for PhD Studentships, please consult:

www.ucd.ie/graduatestudies/studywithus/researchprogrammes

Funding Notes

The is a full-time position. It is intended that the appointee will commence on **1st January 2019**, or as soon as possible thereafter.

Funding is **€24,000** per year for 4 years. This includes a fee contribution of €5,500 p.a. for EU citizens) and a tax-free stipend of €18,500 p.a.