

Energy Policy and Modelling Research,
Sustainable Energy Research Group,
Environmental Research Institute,
University College Cork,
Cork, Ireland



UCC

Coláiste na hOllscoile Corcaigh, Éire
University College Cork, Ireland

Senior Post Doctorate Energy Systems Modelling Positions

UCC has secured funding from the Environmental Protection Agency: Climate Change Research Programme 2007 – 2013 (with co-funding from Sustainable energy Ireland) for a project entitled “*Energy Modelling – Irish TIMES*”. This two-year project involves building a TIMES energy system model for Ireland and requires two senior post-doctorate researchers.

1) One senior post-doc position (SPD1) is a 24 month position. SPD1 will have a strong technical background (to PhD level in engineering or mathematical or physical sciences) with excellent analytical skills and extensive numerical modelling experience with a focus on optimisation. SPD1 will preferably have energy systems modelling experience and ideally with direct experience with the MARKAL / TIMES family of models. PD1 will have a core role in model development and utilisation, calibrating and testing.

2) The second senior post-doc position is for 18 months. PD2 will have a strong technical background coupled with experience energy economics experience. PD2 will have a PhD in engineering or mathematical or physical sciences or a technical undergraduate degree combined with PhD in energy economics. PD2 will be responsible for energy system economics aspects of the modelling activity, scenario development, modelling development and utilisation.

Closing Date February 27th 2009.

The positions carry an initial salary of €50,650 - €55,755 per annum; will be based in the Environmental Research Institute (<http://www.ucc.ie/en/ERI/>) under the supervision of Dr Brian Ó Gallachóir (www.ucc.ie/serg/brian.html).

For informal enquiries about the post, contact Dr Brian Ó Gallachóir:

Department of Civil and Environmental Research,
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[Application forms](#) may be completed online and e-mailed to recruitment@per.ucc.ie as an attachment in MS Word format, or posted to:

Recruitment Section,
Department of Human Resources,
Number 2 Elderwood, College Rd
University College, Cork.
Phone +353 21 490 3073
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Background on the Irish TIMES project

The *Irish TIMES* research project will develop, calibrate, test and run a partial equilibrium energy system optimisation model for Ireland. The *Irish TIMES* (The Integrated MARKAL and EFOM System) model will draw on modelling tools currently being used in more than 100 institutions in over 50 countries (see <http://www.etsap.org/index.asp>). The project will provide whole energy system configurations for Ireland to deliver projected energy service requirements optimised to least cost and subject to a range of policy constraints. It will draw from the recently started national energy modelling activity (using MEDPRO and LEAP) and existing macro-economic modelling (using HERMES). The model results will provide energy system pathways to 2050, but the focus will be on the results in 2020 to inform energy and environmental policy, with a particular focus on the EU Burden Sharing Directives on renewable energy and greenhouse gas emission.