** PhD in Energy Market Modelling, Dublin **

To answer research questions surrounding climate change, effective
modelling of future energy markets is required. Such models provide
insights from planning, operations, and regulatory perspectives.
Energy suppliers use them to gain insights on possible trading
strategies while policymakers use them to analyse consumer costs and
carbon emissions.

Energy market modelling is an interdisciplinary field covering areas
such as mathematics, statistics, economics, finance, and engineering.
This PhD project will revolve around the general theme of energy
market modelling. Topics could include (but are not limited to) the
following:

- Optimisation (Integer, linear, non-linear programming)
- Equilibrium modelling
- Stochastic modelling
- Game\decision theory
- Risk modelling

Candidate profile

Prospective applicants should have strong quantitative modelling
skills and evidence of research (e.g., dissertation or final year
project). Applications are welcome from those with a background in
either mathematics, statistics, economics, finance, or engineering (or
similar fields). In addition, candidates should have strong
communication and interpersonal skills.

Funding is available for the above or for a related PhD project. For
further details please contact: Dr. Mel Devine
(mel.devine@ucd.ie)

Stipend: ?18,000 per annum. In addition, funds are available for
research costs and fees (for both EU and non-EU applicants) are
covered.

To apply, please forward a cover letter and CV (max 2 pages for each)
to mel.devine@ucd.ie before 1-Mar-2022. Considerations of applications
will continue on an ongoing basis until the position is filled.

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