



IRCSET Enterprise Partnership Scheme

Research in Universal Product Design, Methods and Processes

Post/s:	Postdoctoral Fellowship/s
Research Body:	Trinity College Dublin
Dept/Faculty:	School of Engineering
Status:	IRCSET Enterprise Partnership Scheme Award/s
Closing Date:	March 31 st 2010

Applications are invited for

Post-doctoral Fellow in Trinity College Dublin within School of Engineering

Description of the Project:

Universal Design is best demonstrated by good design examples. The postdoctoral fellow will research the design and development of a new universally designed product and its assessment method. This will be a through a dedicated research project tailored to the ageing population, encompassing all aspects of the Universal Design process. This research work will be the first in Ireland that will demonstrate the process of Universal Design in product design and development, from the inception phase right through to the final product prototyping phase.

The research from the new product design process will inform the development and integration of curricula on the principles and processes of Universal Design within modules in Trinity College Dublin's new strategy in engineering education "Engineering Innovation and Creative Design". While supporting and promoting the introduction and inclusion of the principles of Universal Design across all educational courses, specific courseware will be trialled and integrated into design modules across all 4 years of their undergraduate and postgraduate programs.

Suitable postdoctoral applicants must:

- Currently hold or about to receive a doctoral degree, awarded by any institution worldwide, in an area related to engineering.
- Previous experience in researching and applying the human centred design process at various stages of product development environment in industry.
- Experience conducting usability assessment studies.
- Previous experience in a curriculum development relevant to user centred design.
- Experience in project management and supervision of graduate and undergraduate research projects.
- Have not yet been employed in a postdoctoral research position for more than 36 months at the closing date of the call. Career breaks or periods in industry will not be included in the calculation of 36 months. Applicable career breaks include parental leave, maternity leave, caring leave, periods working in an industrial setting where the applicant was not able to publish peer-reviewed publications, or periods spent working in a purely teaching position.
- Ensure that their research proposal subject falls into one of the subject areas described above, or is interdisciplinary within those areas.
- There are no restrictions as to nationality or citizenship. Applicants currently resident outside of Ireland are eligible to apply, as are those currently resident in

The award will be co-funded by IRCSET and *the Centre for Excellence in Universal Design in the National Disability Authority* through IRCSET's Enterprise Partnership Scheme. Further details on the Enterprise Partnership Scheme can be found at <http://www.ircset.ie/Default.aspx?tabid=58>

Professor Richard B. Reilly
Professor of Neural Engineering
School of Engineering and School of Medicine
Trinity College Dublin
Dublin 2, Republic of Ireland
email richard.reilly@tcd.ie

Applicants must meet IRCSET's eligibility criteria and will be assessed independently by IRCSET.