Applications are invited for a two year postdoctoral fellowship in cognitive neuroscience, to be located at Trinity College Institute of Neuroscience as part of the Science Foundation Ireland-funded INSIGHT programme (see below).

This project, to be run in collaboration with engineering colleagues at the National University of Ireland Maynooth and Dublin City University, aims to evaluate the effects of real-time EEG-based feedback on key cognitive processes including error detection, decision making and attentional lapses in young and healthy elderly people, as well as in elderly people with memory complaints.

Candidates should have completed a PhD in cognitive neuroscience. They should have human EEG/ERP testing, data analysis, preferably including Matlab skills.

Candidates should also have excellent statistical and presentation skills.

The INSIGHT Research Centre for Big Data Analytics is a joint initiative between researchers at University College Dublin, NUI Galway, University College Cork, and Dublin City University, as well as other partner institutions. It will bring together a critical mass of more than 200 researchers from Ireland's leading ICT centres to develop a new generation of data analytics technologies in a number of key application areas.

The €70m centre is funded by Science Foundation Ireland and a wide range of industry partners. INSIGHT’s research focus encompasses a broad range of data analytics technologies and challenges, from machine learning, decision analytics and social network analysis to linked data, recommender systems and the sensor web. Together with more that 30 partner companies, INSIGHT researchers are solving critical challenges in the areas of Connected Health and the Discovery Economy.

Trinity College Institute of Neuroscience (www.tcd.ie/neuroscience) is Ireland's only dedicated neuroscience institute, with over 220 staff and students, 40 Principal Investigators and world class brain imaging (3T and small bore 7T research only MRI, with scan-compatible eye-tracking and pupillometry), EEG/ERP (multiple rigs), and Non-invasive Brain Stimulation (TMS, TDCS, TACS).
Its NIEL (www.tcd.ie/neuroscience/neil) programme on aging includes a Memory Research Unit with over one thousand volunteers and which will provide the participants for the current study.

The starting salary is €33,975, rising to €34,974 for the second year.

The successful candidate will have opportunities to seek additional research funding during the course of this fellowship.

For further information contact Professor Ian Robertson email iroberts@tcd.ie or Professor Redmond O’Connell, email REOCONNE@tcd.ie

Recent publications from the TCIN cognitive neuroscience group include the following: