Research Associate Position in Centre for Electrical Machines and Power Electronics, University of Technology, Sydney

The Centre for Electrical Machines and Power Electronics (CEMPE) at the University of Technology, Sydney (UTS) is seeking to appoint a full time research associate (Level A or B) in the area of magnetic material testing and modelling. Highly qualified applicants with broad background in applied physics (magnetic materials) or electrical engineering are encouraged to apply.

The UTS CEMPE is specialized in characterization, modelling, and application of new magnetic materials, and design, construction, and testing of novel high performance electrical machines and drive systems. The fields of research application include artificial heart, electrical vehicle, and wind power generation, etc.

Description of the projects:

“Characterisation and modelling of nanostructured soft magnetic material”

This project aims to test and model the magnetic properties of nanostructured soft magnetic materials and provide data for optimum design of advanced electromechanical devices using this type of materials. The magnetic properties, mainly B-H relationships and core losses, will be tested under 3D vectorial magnetizations. Magnetic domains under various types of magnetizations will be observed to assist the understanding of the magnetization mechanisms, and modelling of magnetic properties.

Applicants must hold PhD degree, and an Australian citizen/resident is preferred.

For further information contact:

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