



PhD SCHOLARSHIPS

Understanding electrode-protein-cellular interactions

Offered by The HEARING CRC and the ARC Centre of Excellence for Electromaterials Science.

The projects:

Cochlear implants have been changing the lives of people with severe to profound hearing loss for over 30 years.

The field has seen changes in sound processing and implant design leading to marked improvement in speech perception over this time.

However we are still unaware of exactly how electrical stimulation alters the cells and proteins that attach to the electrodes.

Two PhD projects will assess this problem, one using the Electrochemical Quartz Crystal Microbalance (EQCM) and the other Biomedical Atomic Force Microscopy (BioAFM).

Essential criteria:

Applicants should hold an Australian First Class Bachelor Honours degree OR equivalent qualifications and/or research experience (including research publications) in a field such as applied science, engineering, materials or nanotechnology.

International applicants must also demonstrate a high level of [proficiency in the English language](#).

Students receive:

A tax-free stipend of approximately \$25,000 per annum for 3 years.

The HEARING Cooperative Research Centre

(HEARING CRC) is an internationally unique consortium of 21 research, clinical and industry organisations. The HEARING CRC was initially funded 2007-14 through the Commonwealth Government Cooperative Research Centre programme, and has recently received a five year funding extension to continue developing new devices, therapies and service delivery models to improve the prevention, detection and remediation of hearing disorders.

The ARC Centre of Excellence for Electromaterials Science (ACES)

is a global leader in advanced materials and electrochemical device development. Encompassing researchers, clinicians and industry partners worldwide, ACES is uniquely positioned to translate materials research into next-generation solutions for clean energy and medical bionics. Led by Australian Laureate Fellow Professor Gordon Wallace at the University of Wollongong, ACES comprises of 11 partners in Australia and overseas.

The next step:

To apply, submit your CV, academic record and a brief statement highlighting how you are a suitable applicant for this scholarship, via the [online application form](#).

www.hearingcrc.org
www.electromaterials.edu.au