Macquarie’s health sciences researchers have expertise in the fields of allied health, clinical audiology, chiropractic, environmental health, physiotherapy, public health, and speech and language pathology.

A major investment in public health on Macquarie’s campus has been the development of the Australian Hearing Hub. The facility brings together some of the country’s best researchers and service providers to advance research, education and innovation into hearing and language disorders.

The Australian Hearing Hub is a revolutionary independent research facility that fosters innovation. Inspired by the interdisciplinary research environment at Macquarie University, the Australian Hearing Hub offers state-of-the-art facilities and a melting pot of expertise and knowledge.

In addition to the Australian Hearing Hub, Macquarie has outstanding physiotherapy, chiropractic and anatomy research facilities, which are considered to be the best university facilities in the region, and among the best in the world.

With over 22,000 square metres of space for interdisciplinary research, education and innovation at Macquarie, you will have unparalleled opportunities for research training in an environment that is unmatched in Australia.

**AREAS OF SPECIALISATION**

- Aeroallergens and allergic respiratory diseases
- Anatomy and chiropractic education
- Auditory processing disorders in children
- Chiropractic management of common sporting injuries
- Climate change and human health
- Clinical management of low back pain
- Development of spoken language in young children with hearing impairments
- Development, public health and poverty
- Early intervention for stutterers
- Environmental health, law, policy and contamination
- Epidemiology, diagnosis, emerging diseases
- Global health
- Hearing, speech and cognitive disorders
- Media and health
- Medical imaging and radiation science
- Neuroscience of acute and chronic back pain
- Physiotherapy practice
- Plant products as antimicrobial agents
- Prognosis and management of musculoskeletal conditions
- Rehabilitation from neurological disorders
- Reproductive health technologies and education
- Social determinants of health
- Spinal orthopaedics
- Tobacco control
Highlights

• Partners in the Australian Hearing Hub include Australian Hearing, National Acoustic Laboratories, Cochlear Ltd, The Shepherd Centre, Royal Institute for Deaf and Blind Children, Sydney Cochlear Implant Centre (SCIC), the ARC Centre of Excellence in Cognition and its Disorders, and the Hearing CRC

• Macquarie is home to the Concentration of Research Excellence in Language Sciences, which brings a combination of theoretical, experimental and computational approaches to the investigation of live issues in the production and comprehension of languages across the human life span

Facilities

• Chiropractic and anatomy labs with rooms for radiology, orthopaedics, rehabilitation and case management

• Environmental Quality Laboratory

• New clinical and laboratory facilities in audiology and speech pathology located in the Australian Hearing Hub, enabling research using evoked potentials, audiometric processing, vestibular assessment, speech perception and auditory plasticity using advanced measurements techniques such as magnetoencephalography (MEG)

• OSL Laboratory

• Purpose-built physiotherapy research laboratory supplemented by access to the extensive radiology imaging suite at Macquarie University Hospital

Research hubs

• Australian Hearing Hub
• Centre for Language Sciences
• Indigenous Bioresources Research Group
• Macquarie node of the Hearing CRC
• Macquarie Public Health Research Network

Support

We give HDR candidates strong academic and administrative support. This includes:

• commencement and completion programs

• discipline-specific research training units, including workshops in research communication, presentation skills, academic writing skills, thesis planning and poster preparation

• experienced supervisors and department-based higher degree research directors

• financial support for research project costs, including top-up scholarships from industry

• regular progress reports and interviews, and/or work-in-progress presentations in which research candidates receive feedback on their work from a panel of academics in their field.