



Brain
Research
Institute

Brain Research Institute, Melbourne, Australia

Position Available: Post-doctoral Research Scientist

Job Description

The Advanced MRI Methods Group at the Brain Research Institute (BRI; www.brain.org.au) is internationally recognised for the development and implementation of advanced perfusion and diffusion MRI techniques, with the advantage that this work is taking place within a world-class clinical neuroscience research environment. The BRI is an independent research institute that is affiliated with The University of Melbourne, and is an important component of the newly formed Florey Neuroscience Institutes (FNI), which contains some of the major neuroscience research groups in Australia (and indeed the world).

The Post-Doctoral MR position will be for a 3 year period initially; the successful candidate will undertake the development and implementation of novel MR acquisition, processing and display techniques in perfusion MRI (Dynamic-susceptibility contrast MRI and/or Arterial Spin Labelling, depending on the experience and interest of the candidate). The development work will be performed on a recently installed 3T Siemens Tim Trio research scanner at the Institute.

The principal neuroscience interests of the MRI Methods Group are in the fields of epilepsy and stroke, and development work will have the ultimate goal of applicability to problems in these fields.

Requirements for applicants

A doctorate in MR physics or equivalent, and experience in MRI technical development are essential. Previous experience in perfusion MRI and in MR pulse sequence programming are desirable.

For further information contact Prof. Alan Connelly (Email: [aconnelly "at" brain.org.au](mailto:aconnelly@brain.org.au)) or Dr. Fernando Calamante ([fercala "at" brain.org.au](mailto:fercala@brain.org.au)).