

Magnetic Resonance Research Physicist/Engineer

Applications are invited for a MR physics/engineering researcher for a unique opportunity, the Australian MR-linac program within the Ingham Institute for Applied Medical Research. This program will develop a MRI linear accelerator to enable soft tissue verification during radiotherapy, requiring high speed MR imaging in a radiotherapy environment.

The Ingham Institute for Applied Medical Research is a new independent research institute located on the grounds of Liverpool Hospital. It is a partnership between the South Western Sydney Local Health District, University of New South Wales and University of Western Sydney. Liverpool Hospital is part of the South West Sydney Local Area Health District and is a teaching hospital of the University of New South Wales and the University of Western Sydney.

The Ingham Institute has commenced construction of a \$3.5m research bunker where the \$5m experimental MRI-linac system will be housed. The infrastructure cost of this project is covered by a Commonwealth Government grant with a contribution from the Liverpool Hospital Radiation Oncology Trust.

The successful candidate will provide expertise and guidance on MR development for the MR-linac environment and radiotherapy including treatment planning, verification imaging and treatment response monitoring. Collaborators involved in this program include The University of Sydney, The University of Wollongong, The University of Western Sydney, The University of Newcastle, The University of Queensland and Stanford University USA. This program is based at Liverpool Hospital in Sydney's western suburbs. The radiation oncology department at Liverpool Hospital has a strong research track record with a significant number of collaborative research projects underway including clinical trials, health services research and medical physics. The physicist/engineer employed will be self-motivated and able to work effectively both individually and in a team environment. The position is responsible to the MR-linac Program Director, Professor Paul Keall and the Chief Operating Officer of Ingham Institute, A/Professor Greg Kaplan

Selection Criteria:

- PhD relevant to MR Physics/Engineering from a tertiary institution in Australia or equivalent from overseas
- Ability to complete research projects both individually and within a team environment.
- Ability to lead a team to complete a project.
- Ability to produce work of a high professional standard.
- Publication record in peer reviewed scientific journals.
- Experience in MR physics/engineering
- Excellent communication skills and ability to work effectively both in a multi-disciplinary team as well as independently.

This position will be employed by the Ingham Institute on a three year contract. The contract extension is subject to continuous funding and need.

For further information about this position please contact Professor Paul Keall, Email: radiation.physics.lab@sydney.edu.au Ph: +61 2 93513590

Closing Date: 6th Jan 2012