Post-Doctoral Researcher – Medical Physics
($90,000 to $106,500 per annum)

The Ingham Institute for Applied Medical Research (the Institute) is a not-for-profit organisation located in Sydney’s South West that conducts world-class medical research that is rooted in and driven by the needs of the local community and wider Australia.

The Institute is the pre-eminent research institute for South Western Sydney. It is home to 360 staff, over 40 research groups, and five (5) research streams that are committed to its vision of Inspiring Health and Transforming Care.

The Institute is integral to a unique collaboration with the South Western Sydney Local Health District, Western Sydney University and the UNSW Sydney. Through these collaborations the Ingham Institute is working to radically transform health outcomes both locally and globally.

The post-doctoral researcher will be part of the Medical Physics research group that, together with the Radiation Oncology department at Liverpool undertakes research into improving outcomes and care for radiation oncology patients. There are a number of ongoing research programs underway including the Australian MRI-linac program, investigations into the use of MRI in radiation oncology, radiomics, health services research including evidence-based radiation oncology utilisation, uncertainties in radiation oncology, dosimetry in radiation oncology and imaging for radiation oncology. The medical physics group is multidisciplinary including physicists, computer scientists, radiation therapists, radiation oncologists and engineers.

The ImproviNg brain cancer ouTcomes with mRi guidEd adaPtIve raDiotherapy (INTREPID) project will develop MR guided adaptive radiotherapy for brain cancer. Radiotherapy is one of the primary modalities for cancer treatment. A long-standing goal of radiotherapy has been biological targeting of tumours. Multi-parametric MRI has shown potential in tumour response assessment in radiotherapy. Several different MRI sequences have been investigated previously for brain cancer. This project will develop a new methodology to increase the survival rates for brain cancer using advanced MRI techniques. This project aims to develop methodology to actively monitor known heterogeneous treatment resistant tumour characteristics and specifically target them with radiation dose.

This position will be working on the INTREPID project.

The successful candidate will be eligible for conjoint appointment with UNSW Medicine at an academic level commensurate with experience.

Applicants can download the position description from https://inghaminstitute.org.au/contact-us/careers/ and are required to:

- Include a cover letter;
- An attachment addressing the Criteria
- A CV; and
- be eligible to work in Australia.

Closing Date: 5pm Sunday 3 November 2019. Please note that only short-listed applicants will be contacted.

Contact person: Dr Michael Jameson on michael.jameson@health.nsw.gov.au and Tel: 02 8738 9289.