

- **Contribute to high impact scientific and clinical projects in a rapidly growing research field within the Australian MRI-Linac Program**
- **Located at the ACRF Image X Institute in the Australian Technology Park, Eveleigh in the Faculty of Medicine and Health**
- **Full-time, 2 years fixed term with a base salary of \$94K p.a., plus leave loading and a generous employer's contribution to superannuation**

About the opportunity

We are seeking a **Postdoctoral Research Associate** to work on the Australian MRI-Linac Program at the [ACRF Image X Institute](#), led by [Professor Paul Keall](#). MRI-Linacs are cutting-edge treatment machines that use MRI to image tumour anatomy and biological function with unrivalled quality while radiation therapy is performed with X-rays from a linear accelerator (linac).

The research program is developing new technology to enable next-gen radiation therapy using in-room MRI to guide treatment. You will have the opportunity to participate in a wide ranging and multi-disciplinary research program funded via two sequential NHMRC program grants. Our research portfolio spans development of new treatment ideas, clinical trials, device development, MRI-Physics, radiation therapy physics, and computational physics. As such, this research opportunity can be adapted to the skillset of the successful applicant.

You will benefit from a strong mentoring environment; lead and be part of high impact research; author highly cited publications and attend international conferences. You will be engaged in a global scientific network working closely with industry to develop new products that improve our ability to image and treat human disease. You will be based at South Eveleigh (formerly Australian Technology Park) and spend time at the Ingham Institute of Applied Medical Research in Liverpool, the location of our MRI-Linac.

About you

The University values courage and creativity; openness and engagement; inclusion and diversity; and respect and integrity. As such, we see the importance of recruiting talent aligned to these values and are looking for a **Postdoctoral Research Associate** who has:

- an awarded or near completed Ph.D. in a relevant discipline (Medical Physics, Science, Computer Science or Engineering)
- demonstrated experience or knowledge in the following:
 - working with a variety of experts in different fields (e.g. radiation oncologists, radiation therapists, physicists, engineers, clinicians etc).
 - software development
 - mathematical algorithm development and/or experience modelling physical phenomena such as electromagnetic fields
 - working with MRI scanners, X-ray equipment, linear accelerators or other scientific/medical devices
- a publication track record or research trajectory that places emphasis on quality publications
- demonstrated scientific creativity and innovation/discovery
- outstanding interpersonal and communication skills in a team environment.

About us

The ACRF Image X Institute is a centre for innovation in radiation therapy and cancer imaging technologies. We create, share and apply scientific knowledge to improve health by building new technology for cancer imaging and targeted radiation therapy. We engage with industry, hospitals, international collaborators and universities to forge relationships that help take our projects from lab bench to patient bedside. ACRF Image X is a part of the Faculty of Medicine and Health at the University of Sydney.

Since our inception 160 years ago, the University of Sydney has led to improve the world around us. We believe in education for all and that effective leadership makes lives better. These same values are reflected in our approach to diversity and inclusion and underpin our long-term strategy for growth. We're Australia's first university and have an outstanding global reputation for academic and research excellence. Across our campuses, we employ over 8,100 academic and non-academic staff who support over 73,000 students.

We are undergoing significant transformative change which brings opportunity for innovation, progressive thinking, breaking with convention, challenging the status quo, and improving the world around us.

How to apply

For more information on the position and University, please view the job listing on the University of Sydney careers website.

All applications must be submitted via the University of Sydney careers website. Visit sydney.edu.au/recruitment and search by the reference number **544/0320F** to apply.

Closing date: 11:30pm, Monday 20 April 2020

The University of Sydney is committed to diversity and social inclusion. Applications from people of culturally and linguistically diverse backgrounds; equity target groups including women, people with disabilities, people who identify as LGBTIQ; and people of Aboriginal and Torres Strait Islander descent, are encouraged.

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The University reserves the right not to proceed with any appointment.