About UON

At the University of Newcastle, our staff are curious. We think big, see opportunity and are open to ideas and ask why.

We share wisdom and partner with colleagues in Australia and around the globe to create an enduring impact. And we’re courageous - bold thinkers who have the confidence to take risks and to inspire change.

The University has an international reputation for research excellence and we continue to build on our research strengths, engagement with industry and partnering with outstanding international universities.

About the Roles

The postdoctoral researchers will be members of the Medical Physics Research Group (MPRG) and the Priority Research Centre for Cancer Research, Innovation and Translation (PRo-CaRIT). You will join a leading research group in radiation oncology and medical physics in Australia based at the Calvary Mater Newcastle Hospital with 6 current postdoctoral and fellowship level positions and 10 postgraduate students.

We are looking to place 2 postdoctoral researchers to conduct research as part of one of the following projects:

- Role 1 (Vacancy #3963) is for Project Grant APP1130469 “Improving the safety of radiation therapy with the Watchdog real time patient treatment verification system”, under the direct supervision of Chief Investigator Conjoint Professor Peter Greer. This project is a collaboration between the University of Newcastle/Calvary Mater Hospital, Royal North Shore Hospital Sydney, Memorial Sloan Kettering Cancer Center, New York, and Cancer Care Manitoba, Canada. You will work as part of the treatment verification team that includes two postdoctoral researcher and several PhD students.

- Role 2 (Vacancy #3954) is for Cancer Institute NSW Early Career Fellowship ECF181252 “4D-MRI in radiotherapy for achieving tumor localisation and effective treatment”, under the direct supervision of Chief Investigator Dr Danny Lee. The radiation oncology department houses a newly installed dedicated 3T Siemens MRI Simulator. You will work as part of the
MRI research team that includes an MRI physicist, MRI radiographer, software developer, postdoctoral researcher and student positions.

Specifically, you will:

- Conduct research either in one of the above areas
- Apply for internal and external grant funding schemes
- Assist with supervision of RHD students
- Write papers and present results at international conferences and institutions.

Skills and Experience

To be successful in this role, you will have:

ESSENTIAL CRITERIA

- PhD in physics or closely related discipline
- Demonstrated experience in high level international standard research
- Expertise in one or more of the areas: radiotherapy physics, MRI physics, radiotherapy dosimetry, image processing or analysis
- Demonstrated experience in scientific software development
- Demonstrated ability to write research articles for publication
- Skills in written and verbal communication
- Capacity to work independently and as part of a team.
- Knowledge of, and experience in adhering to workplace policies and procedures in the areas of work health safety, equity, diversity and promoting a respectful workplace culture.

DESIRABLE CRITERIA

- High level software programming ability

Please note: In accordance with the University's Staff Selection Guidelines, your application will be assessed on the selection criteria found by following the instructions below. It is essential that you address each of the criteria to enable the selection committee to properly assess your application and suitability for interview.

Salary Level A - From $86,081 per annum plus 9.5% superannuation guarantee with Unisuper.

For more information about the position including selection criteria please click the 'Apply for this job' button below or go to newcastle.edu.au/job-vacancies