

Position Title:	Medical Physicist
Location:	SAHMRI, North Terrace
Reports To:	Lead Medical Physicist
Department:	Australian Bragg Centre for Proton Therapy and Research

Purpose and Scope of the Position

The Australian Bragg Centre for Proton Therapy and Research (ABCPTR) is currently under construction and will be Australia's first proton therapy centre. The purpose of this role is to provide leadership in and contribute to the technical and translational research activities at the ABCPTR prior to the commencement of clinical operations. The scope of the role will include strategic research design, supervision of postgraduate research students, applying for competitive research grant funding, preparation of peer reviewed publications and general support of medical physics activities at the ABCPTR.

Reporting to the Lead Medical Physicist of the ABCPTR, the position will also work closely with all members of the ABCPTR team including Radiation Oncologists, Radiation Therapists, Implementation Project Managers, Registry Project Manager and Project Executives.

Key Responsibilities

The specific duties include:

- Developing a strategic technical and translational research plan for the ABCPTR in-line with organisation objectives and available infrastructure
- Working with the comparative planning team to identify key research projects in this field
- Working with the Registry Project Manager to establish workflows for the storage of comparative planning DICOM data in the ABCPTR ProKnow database
- Supervising postgraduate research students from a range of disciplines
- Preparing research manuscripts for submission to peer reviewed journals
- Promoting collaboration with the ABCPTR by other clinical and research organisations
- Promoting research activities at the ABCPTR through presentation at reputable scientific conferences
- Ensure the effective management of data processing operations within the unit through appropriate planning and allocation of resources to achieve agreed business and strategic plans.
- Liaise with managers and members of the multidisciplinary teams of contributors regarding project planning and maintenance of effective work relations.
- Participate in special projects to continuously improve processes, tools, systems and organisation.
- Take reasonable care to protect his / her own health, safety and welfare at work
- Ensure that duties are performed in keeping with the principles outlined in SAHMRI's Vision, Mission and Values and the **Code of Conduct Policy**.

Special Requirements

- Some out of hours' work may be required.
- DCSI Employment Screening and Police Checks may be required

PERSON SPECIFICATION

Qualifications

ACPSEM accredited degree in medical physics
PhD in medical physics related field
Registration with the ACPSEM as a Certified Radiation Oncology Medical Physicist

Experience, Knowledge and Skills

- At least 5 years' experience as a clinical medical physicist
- Clinical or research experience in the field of proton therapy
- Knowledge of the fundamentals of proton therapy treatment planning
- Knowledge of manipulating DICOM files
- Scientific computing skills, preferably in Geant4 and python
- A strong research publication track record
- Experience in attracting research grant funding
- Excellent written and oral communication skills
- Ability to delegate, negotiate and manage conflict
- Possess a high level of interpersonal skills
- Ability to work well in a team
- Ability to work autonomously or under limited direction.
- Support SAHMRI's commitment to reconciliation and acknowledge the importance of working in partnership with Aboriginal and Torres Strait Islander People
- Able to demonstrate the following SAHMRI Values and Culture:
 - **Excellence** – Bold, Driven, Dynamic
 - **Innovation** – Persistent and Focused
 - **Courage** – Collaborative and Enabling
 - **Integrity** – Embrace Diversity, Demand Equity
 - **Teamwork** – Friendly, Fast, Flexible, Fun