

Position Description

POSITION TITLE:	Research Radiographer & NIF Scientist
LOCATION:	Preclinical, Imaging and Research Laboratories (PIRL)
	Gilles Plains, South Australia and SAHMRI, North Terrace
REPORTS TO:	Director, PIRL
DEPARTMENT:	PIRL, South Australian Health and Medical Research Institute (SAHMRI)

PURPOSE AND SCOPE OF THE POSITION

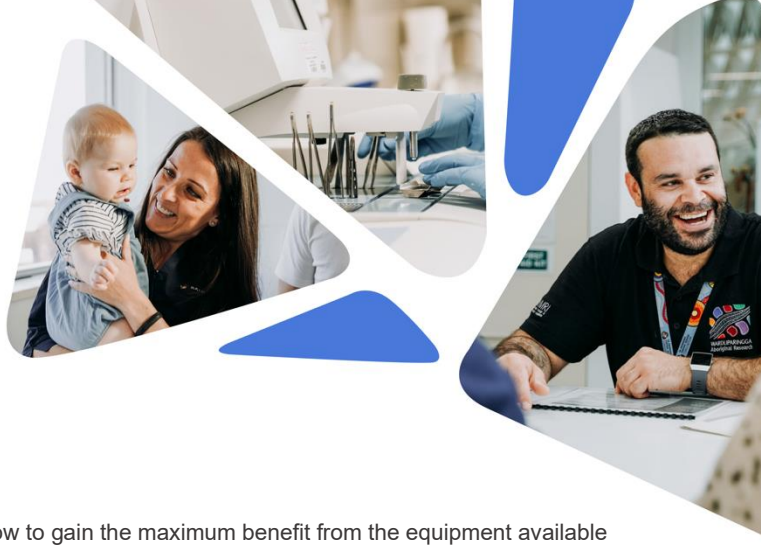
To provide expertise in preclinical biomedical imaging at all stages of project development, and to manage imaging infrastructure. The position involves the development of protocols, delivery of imaging, and support in data storage, processing and analysis for preclinical research, predominately involving small and large animal models of human disease, specimens, and inanimate objects.

The South Australian Health and Medical Research Institute (SAHMRI) is South Australia's flagship independent health and medical research institute. The position is co-funded by SAHMRI and the National Imaging Facility (NIF) to bring imaging facilities and imaging expertise to the research community.

Established in 2007, NIF is a nation-wide imaging capability funded by the Australian Government under the National Collaborative Research Infrastructure Strategy (NCRIS). NIF embraces state-of-the-art imaging infrastructure, empowered by highly specialised expertise. This position is hosted by SAHMRI and based at Preclinical, Imaging and Research Laboratories (PIRL) at Gilles Plains and SAHMRI, North Terrace. As part of the role, the incumbent will become part of the NIF network, as a NIF Scientist.

SAHMRI has various imaging capabilities, across small and large animal research. Imaging within the context of large animal models of human disease is currently performed at our large animal facility at PIRL. PIRL imaging equipment includes a 3T MRI, PET-CT, multipurpose fluoroscopy lab, image intensifiers, ultrasound, general radiography, and DEXA. Equipment at SAHMRI's North Terrace small animal facility includes preclinical MRI, PET/SPECT, micro-CT, optical imaging and an x-ray irradiator. The incumbent will collaborate with the existing NIF Scientists to assist in the operation of imaging equipment across both sites and provide project management, post-processing and interpretative services to projects as required. Reporting to the Director, PIRL, the position is a national role and the incumbent will interact with a broad range of internal and external stakeholders, including researchers, clients, industry, and regulators. The role encompasses service provision as well as scientific leadership and technical excellence.

There are no direct reports for this role. The incumbent will work in partnership with a small, dynamic and flexible team of local NIF Scientists, animal technicians, veterinarians, and researchers who are dedicated to facilitating quality research.



KEY PERFORMANCE INDICATORS

- Project management of research and commercial projects
- Advising researchers on SAHMRI's imaging capabilities and how to gain the maximum benefit from the equipment available
- Providing a hands-on scanning service in close collaboration and cooperation with existing SAHMRINIF Scientists in a range of imaging modalities
- Assisting researchers at PIRL and North Terrace
- Help drive the development and uptake of imaging services at North Terrace through exemplary support
- Maintaining close professional links and collaborating with NIF Scientists to optimise the uptake of NIF services and expertise
- Bringing high-level experience and expertise to research teams wishing to generate imaging data
- Assisting in the review and update of procedures and policies
- Adhering to NIF key performance indicators and overseeing the reporting of research activity to NIF Central
- Coordinating or contributing to competitive funding applications, including applications for new instrumentation and ancillary equipment
- Assisting with quality management
- Other duties as directed.

KEY RESPONSIBILITIES

The specific duties include:

- Providing expert knowledge in imaging technologies to researchers throughout South Australia and beyond
- Collaborating with and assisting staff and researchers using PIRL and SAHMRI North Terrace imaging facilities
- Project management of projects as required
- Assisting with quality management and assurance
- Operation and management of imaging equipment including MRI, CT, fluoroscopy, PET-CT, Cath Lab, micro-CT, optical imaging other novel apparatus (in-house training can be provided)
- Staff and researcher training and development support
- Ensuring imaging facilities are clean, organised and safe to use, including working with the Radiation Safety Officer to ensure radiation safety at PIRL and SAHMRI North Terrace.
- Principal NIF Scientist support of SAHMRI North Terrace preclinical imaging
- Reporting to project managers and scientific committees
- Working with research animals
- As a NIF Scientist, representing the SA node of NIF locally, nationally and internationally, and being a point of contact for researchers and stakeholders accessing the available imaging modalities as required. Networking and collaboration within and outside of NIF
- Prioritising safety at all times
- Participate in the implementation of the Institute's Work, Health and Safety Management System and related laws, regulations and guidelines
- 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.
- Irregular interstate travel may be required.



Person Specification

ESSENTIAL CRITERIA

- Eligibility to work in South Australia
- Bachelor of Medical Radiation Science, or equivalent
- South Australian Licence to operate ionising imaging apparatus, or eligibility to acquire a South Australian licence

DESIRABLE CRITERIA

- AHPRA registration as a Diagnostic Radiographer or Nuclear Medicine Technologist
- Postgraduate qualification in magnetic resonance imaging, medical radiations, sonography, physics, engineering, or similar
- Experience in MRI
- SA EPA licence to handle sealed and unsealed sources
- Experience in a research environment

EXPERIENCE, KNOWLEDGE AND SKILLS

- Providing imaging expertise and collaborating with researchers in all stages of projects
- Relevant science, imaging physics and application understanding
- Ability to work independently without supervision
- Ability to work under project pressure (timeframe/deadline/budgetary)
- Appreciation of the requirements and style of biological research
- Writing and presentation skills - analysis/report writing/grant writing/presentations, etc.
- Troubleshooting – ability to problem solve, critical thinking skills
- Personal skills: accommodating, team player, communicates well across disciplines with an ability to work independently
- Project management skills: good time management, timely delivery of outputs, monitoring / resolving issues
- Comfortable to be hands-on in animal studies, although no experience necessary
- 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