

Position Description

Radiopharmaceutical Scientist

Classification:	RX7 – Scientist, Grade 1
Business unit/department:	Molecular Imaging and Therapy
Work location:	Austin Hospital ☒ Heidelberg Repatriation Hospital ☐ Royal Talbot Rehabilitation Centre ☐ Other ☐ (please specify)
Agreement:	Victorian Public Health Sector (Medical Scientists, Pharmacists and Psychologists) Single Enterprise Agreement 2021-2025
Employment type:	Full-Time
Hours per week:	40
Reports to:	Head of Radiopharmaceutical Sciences
Direct reports:	NIL
Financial management:	Budget: NIL
Date:	01/11/2025

Position purpose

The Radiopharmaceutical Scientist will assist in the provision of radiopharmaceutical services to the Department of Molecular Imaging and Therapy. They will be trained to proficiency in the production, quality control and release of radiopharmaceuticals for use in patients, clinical trials and distribution to other sites around Victoria.

As part of a dedicated scientific and engineering team they will gain experience with multiple PET and SPECT isotopes including ^{18}F , ^{68}Ga , ^{11}C and $^{99\text{m}}\text{Tc}$, as well as therapeutic isotopes such as ^{177}Lu . They will be involved in the validation of new radiopharmaceuticals for clinical use within the hospital including for cutting edge clinical trials. They will also be trained to proficiency on the production of isotopes using our cyclotrons, aseptic technique, radiation safety considerations and legislative requirements relevant to the industry. They will also be involved with training and continuing education where required.

About Molecular Imaging and Therapy

The Department of Molecular Imaging and Therapy is one of the largest academic Departments in

Australia, and has comprehensive clinical service activities, as well as an Internationally renowned research program. The Department has four core clinical service components: Nuclear Medicine imaging, Radionuclide Therapy, Positron Emission Tomography (PET), and Bone Densitometry. The Department also produces radioisotopes on site with in-house Cyclotrons and radiochemistry and QC laboratories and undertakes a wide range of diagnostic and therapeutic examinations and research studies.

The Department has 2 locations within Austin Health. Nuclear Medicine imaging, radionuclide therapy and PET services are located at the Austin Campus on level 1 of the Harold Stokes Building. Bone Densitometry services are located at the Repat Campus on level 2 of the Centaur Building. This position is based at the Austin Campus site.

The position of Radiopharmaceutical Scientist at Austin Health allows support of services directly impacting patients lives and health outcomes, while giving unique opportunities to develop a wide range of skills and experiences in a rapidly expanding field.

Position responsibilities

- Perform radiopharmaceutical manufacturing, dispensing and quality control guided by the principles of Good Manufacturing Practice (GMP) for Medicinal Products and exercising independent professional judgement and problem solving.
- Work with a range of isotopes including SPECT, PET and radiotherapeutic isotopes.
- Assist in developing new procedures, agents and contributing to the scientific and research program of Molecular Imaging and Therapy.
- Aid in the maintenance and troubleshooting of synthesis modules and laboratory equipment.
- Contribute to the Quality Management System (QMS) by preparing and reviewing documents related to the maintenance, calibration and validation of laboratory equipment.
- Contribute to the maintenance and improvement of the QMS by preparing and reviewing documents such as standard operating procedures and working instructions for radiopharmaceutical manufacture and quality control.
- Contribute to quality improvement activities and clinical research activities within Molecular Imaging and Therapy by independently applying general scientific knowledge and skills.
- With the Departmental Radiation Safety Officer, maintain and review radiation safety procedures within Radiochemistry and Radiopharmacy and ensure optimal equipment performance.
- Liaise with PET Radiochemistry and Radiopharmacy staff on production and quality control schedules.
- Partake in the general quality assurance procedures of the department.
- Participation in relevant meetings and preparation of reports as required.
- Maintain knowledge and awareness of occupational health and safety issues.
- Attend further education courses or professional conferences as deemed necessary.

Selection criteria

Essential skills and experience:

- Bachelor's degree in a relevant scientific field
- Experience working in laboratory settings
- Critical thinking and attention to detail
- Meticulous and safe laboratory working practices
- Excellent problem-solving skills



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- Ability to work effectively in high pressure, time sensitive scenarios
- Well-developed communication skills
- Ability to work as a team member and achieve projected goals and targets
- Demonstrated educational skills and basic computer knowledge

Desirable but not essential:

- Whilst not mandatory, a relevant post-graduate degree would be highly regarded
- Experience in Radiochemistry and/or Radiopharmacy
- Experience in manufacturing Quality Control procedures and instrumentation such as HPLC, GC and TLC.
- Experience in GLP or GMP environment
- Experience in research and research skills
- Experience with the use and safe handling of radioactive material
- A current personal radiation license for Victoria
- A sound understanding of information technology including clinical systems, applications relevant to the Management of rostering and risk management reporting or as required for the role and/or department. Experience and proficiency in keyboarding and Computer skills.

Professional qualifications and registration requirements

- Personal radiation use license - where required on the job training will be provided to allow applicant to meet eligibility criteria for this.

Quality, safety and risk – all roles

All Austin Health employees are required to:

- Maintain a safe working environment for yourself, colleagues and members of the public by following organisational safety, quality and risk policies and guidelines.
- Escalate concerns regarding safety, quality and risk to the appropriate staff member, if unable to rectify yourself.
- Promote and participate in the evaluation and continuous improvement processes.
- Comply with the principles of person-centered care.
- Comply with requirements of National Safety and Quality Health Service Standards and other relevant regulatory requirements.

Other conditions – all roles

All Austin Health employees are required to:

- Adhere to Austin Health's core values: *our actions show we care, we bring our best, together we achieve, and we shape the future.*
- Comply with the Austin Health's Code of Conduct policy, as well as all other policies and procedures (as amended from time to time).



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- Comply with all Austin Health mandatory training and continuing professional development requirements.
- Provide proof of immunity to nominated vaccine preventable diseases in accordance with Austin Health's immunisation screening policy.
- Work across multiple sites as per work requirements and/or directed by management.

General information

Austin Health acknowledges the Traditional Custodians of the land on which Austin Health operates, the Wurundjeri Woi Wurrung People of the Kulin Nation. We pay our respects to Elders past and present and extend that respect to all Aboriginal and Torres Strait Islander peoples.

Cultural safety

Austin Health is committed to cultural safety and health equity for Aboriginal and/or Torres Strait Islander People. We recognise cultural safety as the positive recognition and celebration of cultures. It is more than just the absence of racism or discrimination, and more than cultural awareness and cultural sensitivity. It empowers people and enables them to contribute and feel safe to be themselves.

Equal Opportunity Employer

We celebrate, value, and include people of all backgrounds, genders, identities, cultures, bodies, and abilities. We welcome and support applications from talented people identifying as Aboriginal and/or Torres Strait Islander, people with disability, neurodiverse people, LGBTQIA+ and people of all ages and cultures.

Austin Health is a child safe environment

We are committed to the safety and wellbeing of children and young people. We want children to be safe, happy and empowered. Austin Health has zero tolerance for any form of child abuse and commits to protect children. We take allegations of abuse and neglect seriously and will make every effort to mitigate and respond to risk in line with hospital policy and procedures.



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