STELLENBOSCH UNIVERSITY

Central Analytical Facilities (CAF)

NII PET-CT Unit (Node for Infection Imaging)

Research Radiologist

Post Level 6

Tygerberg Hospital, Cape Town

Ref. SAF/097/0426

About the Unit

The NuMeRI NII PET-CT Unit is a research facility hosted by the Central Analytical Facilities (CAF) of Stellenbosch University (SU) at Tygerberg Hospital (TBH) in Cape Town, South Africa. The Unit shares a common radiopharmacy with the Western Cape Academic PET-CT Centre (WCAPC) and has a close working relationship with both TBH and with SU's Faculty of Medicine and Health Sciences (FMHS), through its Divisions of Nuclear Medicine and Radiodiagnosis.

The aim of CAF (including the NII) is to ensure optimal utilisation of expensive multi-user research equipment in the service of the research community of Stellenbosch University, and the South African research and development sector in general. NII operations can be divided into three categories:

- Research
- Limited private clinical practice (for cost recovery purposes)
- Reciprocal support of state service provision when required and depending on capacity

The Opportunity

We are seeking a specialist radiologist to join our multidisciplinary research team, with expertise in quantitative imaging analysis and multimodality reporting. This unique position combines research image analysis, clinical reporting, and academic collaboration in a state-of-the-art PET-CT research facility. The successful candidate will play a pivotal role in advancing medical imaging research while contributing to clinical service delivery.

What We Offer

- Access to PET-CT research technology and infrastructure.
- Collaboration with national and international research networks.
- Opportunity to shape imaging protocols for emerging research questions.
- Academic environment with FMHS affiliation at Stellenbosch University.
- Multidisciplinary teamwork with radiology and nuclear medicine specialists, researchers, and clinicians.
- Limited overtime commitment.

- Professional development opportunities in research imaging and advanced modalities.
- Cape Town location.

Duties

Research Imaging Analysis

- Research analysis and reporting of medical imaging studies for research clients, including extraction of quantitative imaging parameters, reporting according to research protocols, and completion of clinical research forms.
- Applying standardised response assessment systems (e.g. RECIST) to clinical trial imaging.
- Refinement of existing CAF/NII imaging protocols and workflows, including development of new protocols, to maximise sustainability and research impact of the Unit.
- Contributing to planning of medical imaging services provided by CAF/NII to such an extent that the research interests of the national research community are best served and can function cost-effectively and sustainably.

Clinical Interpretation and Reporting

- Clinical interpretation of PET-CT and SPECT-CT studies in collaboration with nuclear physicians.
- Clinical interpretation of other medical imaging studies (CT, MRI, US, x-ray, mammography).
- Contributing towards the clinical service of TBH's Divisions of Radiodiagnosis and Nuclear Medicine, including reporting.
- Attending multidisciplinary team meetings to present CAF/NII studies.

Patient Care and Clinical Supervision

- On-site clinical supervision and management of patients and research participants on the day of their studies, which may include assistance with difficult IV access, prescription of medications, interviewing patients, resuscitation, and referral of unstable patients.
- Compassionate engagement with patients and research participants as necessary.
- Upholding patient and participant privacy in compliance with POPIA and GCP requirements.

Strategic, Operational, and Quality Assurance

- Using and limited management of the NII PACS-RIS platforms.
- Maintaining quality assurance and radiation safety standards in line with SAHPRA, HPCSA, and other applicable standards.
- Participating in continuous professional development and internal quality programmes.
- Contributing to management of the NII as a member of the Unit management team.
- Contributing to the close and effective operational relationship between CAF/NII and TBH.
- Writing grant applications to secure funding for new equipment.

- Collaborating with clinicians and researchers, including management of relationships and communication with clients of the Unit.
- Reporting directly to the NII Director.

Job Requirements

- Appropriate qualification that allows registration with the Health Professions Council of South Africa (HPCSA) as a medical specialist in radiology.
- Active HPCSA registration as an independent practitioner (specialist): radiology.
- Demonstrated experience in quantitative image analysis, including ROI/VOI-based measurements, and extraction of quantitative metrics from multimodality medical images.
- Experience in standardised response assessment systems, including RECIST.
- Meticulous attention to detail in image interpretation and quantitative measurement extraction.
- Experience in interpretation of medical imaging across multiple modalities (PET-CT, CT, MRI, US, x-ray, mammography).
- Strong clinical judgement and attention to diagnostic detail.
- Expertise in technical aspects of CT and MRI.
- Experience in the use of PACS-RIS systems.
- Spoken and written fluency in English.
- Excellent communication skills and the ability to collaborate towards joint solutions.
- Strong interpersonal skills, with the ability to collaborate effectively in a multidisciplinary environment and maintain a supportive, team-oriented approach.
- Demonstrated ability to work independently while contributing to team objectives.

Recommendations

- Advanced segmentation experience: manual, semi-automated, or AI-assisted segmentation techniques for tumour delineation and volumetric analysis.
- Relevant research experience as evidenced by publications in accredited journals that were a direct result of the applicant's own work.
- Additional qualifications and/or certifications applicable to the operations of a clinical and research PET-CT facility.
- Fellowships in a radiological subspecialty area (e.g. PET-CT, thoracic, body imaging).
- Experience in grant writing and research funding applications.

How to Apply

The University is committed to employment equity (EE), and appointments will be made in line with the institutional EE Plan.

Stellenbosch University reserves the right not to make an appointment.

Your application, comprising a comprehensive curriculum vitae (including the names and email addresses of at least three references), must reach the University before or on the closing date in the advertisement.

Apply online at **https://www.su.ac.za/en/careers-su** by clicking “Apply now” at the top right of the page for the specific vacancy.

The University reserves the right to investigate qualifications and conduct background checks on all candidates.

The Occupational Health and Safety Act requires people in occupations that entail potential exposure to certain hazards (such as noise, hazardous chemical substances and hazardous biological agents) to undergo medical screening to determine whether they are fit to work in those occupations.

If you have received no feedback from the University after four to six weeks of the closing date, kindly accept that your application was unsuccessful.

Key Dates

Commencement date: 1 July 2026

Closing date: 5 May 2026

Enquiries

Enquiries about this post: Prof Alex Doruyter on 021 834 4620, or at doruyter@sun.ac.za.

Enquiries about remuneration/benefits and technical assistance with the electronic application process: Human Resources Client Services Centre, on 021 808 2753 (Stellenbosch), 021 938 9636 (Tygerberg), or at sun-e-hr@sun.ac.za.