

**The University of KwaZulu-Natal (UKZN) is committed to meeting the objectives of Employment Equity to improve representivity within the Institution. Preference will be given to applicants from designated groups in accordance with our Employment Equity Plan**

**COLLEGE OF AGRICULTURE, ENGINEERING AND SCIENCE**

**SCHOOL OF CHEMISTRY AND PHYSICS: DISCIPLINE OF PHYSICS  
PIETERMARITZBURG CAMPUS**

**POSTDOCTORAL FELLOWSHIP**

**REFERENCE NUMBER: BIO/02/2023**

The Biomedical Optics research group, Discipline of Physics, College of Agriculture, Engineering, and Science is pleased to announce a Postdoctoral Research Fellowship in the research area detailed below.

**Fellowship:** The Design and Commissioning of an Integrating Sphere

**Project Overview**

This fellowship is attached to the Project "Low-cost Creation of Tissue Phantoms for Use in Biomedical Sciences to Help Investigate the Effects of Lasers on Cancer Tissues," coordinated by Professor Naven Chetty. The fellowship will entail engaging and working with relevant stakeholders and academia using transdisciplinary approaches to improve tissue-specific imaging.

**Minimum Requirements**

- A Ph.D. degree in Physics (Biomedical Optics) or a related field.
- Experience developing Optical imaging methods and technologies.
- Knowledge of the use of integrating spheres in the framework of biomedical optics, specifically the measurement of optical properties of biological samples.
- Experience of Light absorption and distribution within a given tissue sample to understand its biochemical composition and micro-architecture.
- A proven research track record as evidenced by recent peer-reviewed ISI/DHET-rated journal articles or the design of a measuring device in the Optics field.
- Experience in working in multi-disciplinary teams.

**Fellowship applications should consist of:**

1. A letter of motivation and details of suitability with respect to the minimum requirements.
2. A comprehensive CV that lists all publications and qualifications.
3. The contact details of three academic referees.

**Applications should be submitted to Dr. Adeleye at [adeleyeO1@ukzn.ac.za](mailto:adeleyeO1@ukzn.ac.za).**

Eligible and suitable candidates are encouraged to apply. **The closing date for receipt of applications is 30 August 2023.** This appointment will be made in line with the University Guidelines/benchmarks, which are available on the University Vacancies website at <http://vacancies.ukzn.ac.za/Academic-Process-Proc-Guides.aspx>.

Enquiries and details regarding this post may be directed to the Project leaders, Professor Chetty at [ChettyN3@ukzn.ac.za](mailto:ChettyN3@ukzn.ac.za) or Dr. Adeleye at [adeleyeO1@ukzn.ac.za](mailto:adeleyeO1@ukzn.ac.za).

**The University reserves the right not to make an appointment.**

*Kindly note that the University of KwaZulu-Natal ("the University") is required to process any Personal Information (as defined by the Protection of Personal Act, 2013 "POPIA") submitted by candidates when applying for positions at the University. The provision of the Personal Information is a requirement in terms of the University's recruitment and selection process. The retention of any personal information is as a consequence of the University being bound by legislative requirements and / or good governance practices as well as record keeping for statistical purposes. The University will endeavour to ensure that the appropriate security measures are in place and implemented for both electronic and paper-based formats that are used for processing of the personal information recorded through this recruitment and selection process.*