

COLLEGE OF AGRICULTURE, ENGINEERING AND SCIENCE

POSTDOCTORAL FELLOWSHIP (1 POST)

01. Nov. 2021 – 31.Oct. 2022

SCHOOL OF Chemistry and Physics (Durban Centre)

The following postdoctoral fellowship opportunity is available to contribute research assistance in the field of Quantum Technology:

Research area: Quantum Verification and Validation and Quantum Metrology using photons. The applicant is required to conduct experimental work, and to assist research with quantum communication using non-linear optics.

The successful applicant will be expected to engage in **full-time** postdoctoral studies in the research group of Prof Konrad and set up experiments at the National Metrology Institute of South Africa (NMISA) in Pretoria.

MINIMUM REQUIREMENTS:

- Relevant PhD degree in Physics;
- Experience with quantum communication /quantum memory experiments , witnessed by publications in these fields.
- Experience with setting up BiBO photon sources.
- Documented knowledge of the design of quantum network nodes.

For further information please email: Konradt@ukzn.ac.za or FRoux@nmisa.org.

The closing date for receipt of applications is Monday, 18. Oct. 2021.

Applicants are required to submit a covering letter and CV. The letter must provide details of the candidate's suitability with respect to the minimum requirements. The CV must include the names, full addresses, fax numbers and e-mail addresses of three referees.

Please e-mail applications to Prof Thomas Konrad, School of Chemistry & Physics, University of KwaZulu- Natal, Westville Campus, 3rd Floor, Physics Building, Block H, Westville; e-mail: Konradt@ukzn.ac.za.