

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 have expertise in the theory of quantum key distribution (QKD) and design verification and validation schemes for QKD devices.

The successful applicant will be expected to engage in **full-time** postdoctoral studies in the research group of Prof Konrad

MINIMUM REQUIREMENTS:

- Relevant PhD degree in Physics.
- Publications on Quantum Key Distribution protocols in reputable international journals.
- Documented knowledge of QKD relevant concepts/processes such privacy amplification and parametric down conversion.

For further information please email Prof Konrad: Konradt@ukzn.ac.za.

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 Mrs Yvonne Gengiah, School of Chemistry & Physics, University of KwaZulu- Natal, Westville Campus, 3rd Floor, Chemistry Building, Block H, Westville; e-mail: Gengiah@ukzn.ac.za