



University of Fort Hare
Together in Excellence

POST DOCTORAL RESEARCH FELLOWSHIP [PDRF] 2021
Faculty of Science & Agriculture

A fulltime postdoctoral position is available in the Department of Physics, Faculty of Science and Agriculture, at the University of Fort Hare (UFH), South Africa. The fellowship will enable an outstanding doctoral graduate to obtain experience in research and innovation in renewable energy and mini-grid design.

The fellowship is available for a period of one year with a possibility to renewal.

ELIGIBILITY CRITERIA:

- Must have graduated with a PhD degree in Physics (Renewable energy) with specialization in biomass/ wind energy within the last five years. The candidate must have knowledge of hybrid system optimization and mini-design. The knowledge of computational Fluid Dynamics (CFD) and energy efficiency in buildings will be added advantage.
- Successful applicants must be able to relocate to the UFH for the duration of the fellowship.

THE SUCCESSFUL CANDIDATE WILL BE REQUIRED TO:

- Conduct innovative research on the dynamic systems in harvesting of low wind speed energy or bio-digester and gasifier behavior focusing on modelling and simulation.
- Demonstrate relevant experience, understanding and knowledge of wind turbine design performance optimisation or the bio-digester and gasifier design system.
- Author/Co-author at least three (4) publication output per year in DHET accredited journals.
- Contribute to the research productivity of the research group, postgraduate students as well as the Department of Physics

VALUE OF THE FELLOWSHIP: R 300, 000 annual fellowship

COMMENCEMENT OF FELLOWSHIP: 1 November 2021

APPLICATION:

Please email the following documents to Prof Golden Makaka (gmakaka@ufh.ac.za)

- Motivation letter, including a 1 – 2-page outline of relevant expertise and experience
- Full CV including a list of research publications.

- Full transcript of recent academic records and copy of doctoral degree certificate and any other relevant certificate.
- Copy of ID document (or copy of passport in the case of foreign applicants)
- Contact details of two academic referees who have taught/supervise/mentor the candidate

CLOSING DATE: 28 September 2021

FOR ENQUIRES

Please contact : gmakaka@ufh.ac.za or pmukumba@ufh.ac.za