



University of Fort Hare
Together in Excellence

POST DOCTORAL RESEARCH FELLOWSHIP [PDRF] 2023

Faculty of Science & Agriculture

Two fulltime postdoctoral positions are available in the Department of Physics, Faculty of Science and Agriculture, at the University of Fort Hare (UFH), Alice Campus, South Africa. The fellowships will enable outstanding doctoral graduates to obtain experience of research and innovation at a higher education institution under the mentorship of established researchers. The fellowships are awarded on a competitive basis, considering the applicants' academic achievements, publication outputs and research potential, as well as the relevance of prior experience and expertise in physics. The fellowships are available for a period of one year but renewable depending on the performance of the post-doctoral fellow.

A: Postdoctoral fellowship (Renewable Energy)

ELIGIBILITY CRITERIA

- Applicant must have completed doctoral degree within the last five years.
- Must have graduated with a PhD degree in any of the following areas: Physics, Environmental Science, Mechanical Engineering, Electrical Engineering, Computer Science, Applied Mathematics, Renewable Energy.
- Should be an expert in any of the following areas: Wind Energy, Bio-mass Energy, Solar Energy, Energy Efficiency, Mini-grid Design, Energy System design, Green Architecture (Smart Architecture), material science
- Preference is given to Women, South African Citizens, and SA Permanent Residents.
- 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 Energy Systems.
- Modelling and simulating the performance of energy systems.
- Contribute to the research productivity of the research group, postgraduate students as well as the Department of Physics.
- Publish a minimum of four (4) journal articles in DHET accredited journals per annum.

VALUE OF THE FELLOWSHIP

- R300, 000 annual fellowship



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APPLICATION:

- Please email the following documents to Prof G Makaka (gmakaka@ufh.ac.za) and copy Dr Patrick Mukumba (pmukumba@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/supervised/mentored the candidate

FOR ENQUIRES:

Please contact GMRDC: Email: postdocs@ufh.ac.za and gmakaka@ufh.ac.za or pmukumba@ufh.ac.za

Closing date: 28 May 2023

B: Postdoctoral fellowship (Social and environmental assessment (SEA) Or Knowledge management (KM))

ELIGIBILITY CRITERIA

- Applicant must have completed doctoral degree within the last five years.
- Must have graduated with a PhD degree in Economics or Agricultural economics or Information systems and experience in energy projects
- Should be an expert in econometrics and modelling of energy use **Or** Knowledge management (Evaluation and monitoring project impact, management of community organisation with reference to energy information).
- Applicant must have an understanding of Renewable Energy (biomass energy, or wind energy or solar energy or energy efficiency) or Information and knowledge sharing in innovation technology.
- Applicant must be able to use any two of the following software: SPSS or STATA or Python.
- Preference is given to Women, South African Citizens, and SA Permanent Residents.
- Successful applicants must be able to relocate to the UFH for the duration of the fellowship.

THE SUCCESSFUL CANDIDATE WILL BE REQUIRED TO:



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- Conduct innovative research on the impact of renewable energy on livelihoods.
- Build energy business models for renewable energy projects.
- Conducting awareness campaigns for adaptation of renewable energy in communities.
- Use econometrics methods to model energy usage, energy management and sustainability.
- Contribute to the research productivity of the research group, postgraduate students as well as the Department of Physics.
- Publish a minimum of four (4) journal articles in DHET accredited journals per annum.

VALUE OF THE FELLOWSHIP

- R300, 000 annual fellowship

APPLICATION:

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