



University of Fort Hare  
*Together in Excellence*

# POSTDOCTORAL RESEARCH FELLOWSHIP

## Building Integrated Photovoltaic (BIPV) Carbon Footprint (1 post)

The successful candidate will assess the carbon footprint of the existing Building Integrated Photovoltaic (BIPV) and other solar PV systems at the University of Fort Hare SolarWatt Park.

### The key performance areas include:

- Continuous thermal and electrical performance assessment of the BIPV
- Develop a model and EPDs inventory of the BIPV for energy-use intensity simulation and carbon footprint assessment
- Energy-use intensity and carbon footprint optimisation relative to sustainable building best practices and standards
- Upscaling of optimised BIPV in the residential sector of South Africa

### Minimum requirements:

- Doctoral degree in Physics (Building), Mechanical Engineering, Architecture, Building Engineering or related field obtained within the last 4 years
- A minimum of 3 years relevant experience in the abovementioned research areas
- A track record of publications in DHET accredited journals

### Expected outcomes:

- Development of novel products and or processes
- A minimum of 4 publications in DHET accredited journals
- Co-mentoring of postgraduate students
- Assist with teaching and learning in primary department

Enquiries and further details regarding this post, may be directed to Dr OK Overen via email: [Ooveren@ufh.ac.za](mailto:Ooveren@ufh.ac.za). Applications must be sent to [postdocs@ufh.ac.za](mailto:postdocs@ufh.ac.za) and cc **Dr OK Overen** on or before **30 September 2023**. Please consider your application unsuccessful if you have not received feedback within 3 weeks of the closing date.

