



Department of Physics

POST DOCTORAL RESEARCH FELLOWSHIP AT THE UNIVERSITY OF THE FREE STATE – BLOEMFONTEIN CAMPUS, SOUTH AFRICA

The Department of Physics (Bloemfontein Campus) has a full-time, two-year Postdoctoral Fellowship available for research on the **Toxicity of Graphene and Carbon-Based Nanomaterials with COMPUTATIONAL Chemistry & Computer simulations.**

This is an exciting opportunity to join a vibrant and productive research group. A call is open to hard-working and motivated candidates who have finished their PhDs within the past 5 years. The successful candidate will be expected to live in Bloemfontein when conducting research. Successful candidates will mainly be expected to undertake research and other academic activities including co-supervision of postgraduate students and lecturing as part of their career development. The candidate will also be expected to publish in the DHET-accredited journals. and to apply for external funding.

Key Performance Areas:

- Interact with collaborators to design experiments and develop process designs.
- Draft grant applications in this broad research area.
- Publish a minimum of 3 manuscripts per year in reputable journals and peer-reviewed conference proceedings in this field. The renewal of the fellowship beyond the first year depends on satisfactory performance and the submission of an annual progress report.
- Involvement in initiating and managing research projects.
- Assisting in overall management and contributing to the various activities of the Research projects, including supervision of post-graduate candidates.

Minimum Requirements:

- A recently earned PhD in Physics or Material Science. At the time of the award, the candidate should have graduated with his/her doctorate no longer than within the previous five years.
- Certified copies of academic qualifications plus academic records. **Please provide academic transcripts and SAQA evaluation certificate, if qualifications were obtained outside South Africa.**
- The candidate should have experience in computational modelling and simulations.
- At least 3 published journal papers in the last 24 months.
- Established track record of publications and conference contributions related to the outlined research areas.
- Successful applicants may not hold full-time salaried employment during the fellowship.
- International Postdoctoral Research Fellows must have a long-term visitor's visa.

- Not in full-time academic employment; and
- Successful applicants must be able to relocate to the UFS Bloemfontein Campus) for the duration of the fellowship. This is a residential fellowship: the successful applicant is required to spend 80% of her/his postdoctoral period at the UFS (Bloemfontein Campus).

All applications should be emailed to **Prof. (Associate Professor) R.A. Harris at: harrisra@ufs.ac.za** with the following supporting documents:

- 1) Full CV including a list of research publications, conference papers, and other scholarly output,
- 2) letter of motivation,
- 3) research plan,
- 4) certified copy of passport or ID document,
- 5) Contact details of two academic referees who have taught/supervised the candidate (one referee must be your lead PhD supervisor).

Applicants who have not heard anything within two weeks should assume they have been unsuccessful.

Closing date: 31 May 2025

For enquiries, please contact Prof. R.A. Harris. Email: harrisra@ufs.ac.za