



Postdoctoral Research Opportunity
School of Chemical and Metallurgical Engineering
University of the Witwatersrand, Johannesburg

The School of Chemical and Metallurgical Engineering at the University of the Witwatersrand is pleased to invite applications for a **Postdoctoral Research Fellowship**, commencing in **March 2025**.

Position Overview

This fellowship is initially offered for a three-year period, with renewal on an annual basis contingent on satisfactory performance. The successful candidate must be prepared to commit to a minimum of two years dedicated to the project.

We are seeking a dynamic and accomplished researcher with a PhD in **Metallurgical Engineering** or **Materials Science**. The ideal candidate will have expertise in **first-principle calculations** and **computational techniques**, including but not limited to:

- **Density Functional Theory (DFT)**
- **VASP**
- **Thermo-Calc**
- Other advanced computational tools

Research focus areas include **high-entropy alloys** or **hydrogen storage materials**, with a strong emphasis on computational modelling.

Requirements

- PhD in **Metallurgical Engineering** or **Materials Science** (awarded within the last five years).
- Proficiency in **DFT, VASP, Thermo-Calc**, and related computational tools.
- Demonstrated research experience in **high-entropy alloys** or **hydrogen storage materials**.
- Proven track record of publishing in **high-impact journals**.

Application Procedure

Interested candidates should submit the following documents via email to liezel.herman@wits.ac.za with the subject line: Postdoctoral Application – [Your Name]

- Detailed CV, highlighting relevant experience and publications.
- A two-page research proposal aligned with high-entropy alloys or hydrogen storage materials.
- Two academic reference letters.

Application Deadline: **31 January 2025**. **Only shortlisted candidate will be contacted in early February 2025**.

Start Date: **March 2025**

For further inquiries, please contact liezel.herman@wits.ac.za.

Join us in advancing cutting-edge research and contributing to the field of computational metallurgy!