



Stellenbosch

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Postdoctoral Fellowship

- Scope of Research:** Consolidate research thermal energy storage in anisotropic packed beds of crushed rock. The research involves particle and packed bed characterization, discrete element modelling (DEM), computational fluid dynamics, but the main focus is on constructing and commissioning a laboratory facility, experiments and data analysis. The aim is to develop correlations for the heat transfer and pressure drop coefficients in a packed bed. Collaborate with researchers and postgraduate students in the Mechanical & Mechatronic Engineering Department, and the Solar Thermal Energy Research Group in particular. The appointment is for six months.
- Requirements:** Ph.D. in Mechanical Engineering (must have graduated within the last three years).
Sound computational fluid dynamics and/or discrete element modelling skills will be advantageous.
- Commencement date:** 1 April 2025 but not later than 1 June 2025.
- Remuneration:** ZAR 200 000
- Closing date:** 28 February 2025
- Enquiries:** Prof. Jaap Hoffmann (hoffmaj@sun.ac.za)

Send a letter of application, accompanied by a comprehensive curriculum vitae, including a list of publications and the names and contact details of at least two referees, to hoffmaj@sun.ac.za

Please note that postdoctoral fellows are not appointed as employees, and their fellowships are awarded tax-free. They are therefore not eligible for employee benefits.

(Contact details of the host):

Email: hoffmaj@sun.ac.za
Tel: + 27 21 808 3554

- Applicants should request their referees to forward confidential reports by the closing date directly to the same address.
- Note: Postdoctoral fellows are not appointed as employees and as their fellowships are awarded tax-free, they are not eligible for employee benefits. The University reserves the right NOT to make an appointment if suitable candidates do not apply.