TSHWANE UNIVERSITY OF TECHNOLOGY AND STELLENBOSCH UNIVERSITY COLLABORATIVE POSTDOCTORAL RESEARCH FELLOWSHIPS CALL

Applications are invited from suitable candidates for a TUT-SU collaborative postdoctoral research fellowship in the Department of Industrial Engineering at the Tshwane University of Technology (TUT) and the Department of Mechanical & Mechatronic Engineering at Stellenbosch University (SU). The programme will allow a successful candidate to spend a year each at TUT and SU working on a coherent and multi-disciplinary research project. Renewal for a second year will be based on satisfactory performance during the first year. The academic hosts, one at TUT and one at SU, will provide mentorship.

Research field/area:

- Reconfigurable system design & optimisation in transport manufacturing industries.
- Modular and reconfigurable system design architectures.
- Finite Element Analysis (FEA) and computational modelling.
- Digital twins and optimisation of Reconfigurable Manufacturing Systems (RMS).
- Application of Artificial Intelligence (AI) & Machine Learning (ML) in RMS.
- Smart manufacturing & localisation for sustainable transport manufacturing.

Minimum requirements:

- A doctoral degree in Mechanical, Mechatronic, Industrial Engineering or related field obtained within the past five years.
- Applicants must have a proven track record of research publication in accredited or peer-reviewed journals.
- Demonstrated ability to present research findings at national and international conferences.

Value of fellowship:

- ZAR 350 000 per annum tax free

Interested candidates should submit the following documents to SwanepoelJA@tut.ac.za and ramatsetse@sun.ac.za; detailed CV, certified copies of all relevant qualifications, ID or passport, and a one-page research proposal that the candidate wish to pursue during the fellowship.

Enquires: Prof JA Swanepoel, +27 12 382 2822 and Dr BI Ramatsetse, +27 21 808 4557

Closing date: **13 November 2026**