



## **Postdoctoral Research Fellowship in Axial Fan and System Analysis for Air-cooled Condensers**

Stellenbosch University's Division for Thermodynamics and Fluid Mechanics, hosted within the Department of Mechanical and Mechatronic Engineering, has an opening for a short-term Postdoctoral Research Fellow. The fellowship is intended to support closure of research relating to air-cooled condenser (ACC) axial fan and system behaviour.

### Academic Hosts:

- Prof Johan van der Spuy (sjvdspuy@sun.ac.za)
- Prof Michael Owen (mikeowen@sun.ac.za)

Location: Department of Mechanical and Mechatronic Engineering, Stellenbosch University, Stellenbosch, South Africa. (In person)

### Duties and responsibilities:

The research fellow will be expected to contribute to the completion of ongoing research in the aforementioned field, through a combination of data analysis and scientific reporting, and possibly experimentation, numerical simulation and / or analytical analysis.

### General requirements:

- A PhD in a relevant field (preferably mechanical or mechatronic engineering):
  - o must have graduated within the last five years,
  - o candidates with a confirmed examination outcome who have not yet graduated may apply (proof required);
- Excellent communication skills in English (both written and verbal);
- A proven publication record in high impact journals and a demonstrated capacity to conduct independent research (minimum one relevant published article in a Scimago Q1 or Q2 journal).
- Proven capabilities in terms of experimental, numerical (CFD) and analytical research.

- Familiarity with air-cooled condensers, related components and the modelling and testing of such components.

Commencement of duties: 1 December 2024

Duration: 3 months

Remuneration: R 50 000

Application closing date: 17h00 on 22 November 2024.

Application process: Candidates must send a letter of application, accompanied by a comprehensive curriculum vitae (including a list of publications, a link to the candidate's PhD thesis, and the names and contact details of two referees) to the academic hosts before the closing date.

Applicants will be notified by 26 November regarding possible interviews on 28 November and a final selection of a candidate will be made by 29 November.