



Central University of
Technology, Free State

JOIN THE TEAM

Ubuntu

Integrity

Diversity

Innovation

Excellence

Senior Researcher: Mechanical Engineering

Bloemfontein Campus

FACULTY ENGINEERING, BUILT ENVIRONMENT AND INFORMATION TECHNOLOGY | Mechanical and Mechatronic Engineering | Ref 666



About the
position

Main purpose of the job

To conduct appropriate research leading to publications and projects for post graduate students and third-stream income

Main tasks

- | | |
|--|---|
| 1. Conduct research | 2. Develop and manage a research focus area |
| 3. Supervision of post-graduate students | 4. Administration |
| 5. Control and Organisation | 6. Community Service & Marketing |

Subject fields(s)

Thermal | Renewable thermohydraulic energy systems | Fluid-thermal systems



About the
appointment

Nature of appointment

Permanent Academic

Minimum salary scale (Total Cost to Company)

R 874 197 per annum

Note: CUT applies an internal parity model to determine remuneration that complies with the principle of "equal pay for work of equal value". Accordingly, the preferred candidate may expect an offer that is in line with their qualifications and years of similar experience. Please contact the Recruitment office for more information on the applicable salary scale.



What are we
looking for?

Minimum Qualification/ Knowledge and/or Experience

- A relevant Doctorate level degree (i.e. D Tech / D Eng / PhD in Mechanical Engineering at NQF 10 or equivalent)
- At least four years' research/teaching/lecturing experience in the relevant subject field, including experience in the management of research projects.
- Proven record of three (3) research credits outputs
- Proven record of eight (8) conference presentations of which two (2) should be international presentations/papers
- Proven record of six (6) post-graduate students who obtained Masters- and/or Doctoral-qualifications under the supervision of the incumbent
- Involvement in at least one community-related research project



What are we looking for?

Desired Qualification, Knowledge And/Or Experience

- Research, development and design experience of energy systems and/or fluid-thermal systems that include:
 - Application of additive manufacturing in the development of energy systems and/or fluid-thermal systems and their components
 - Efficiency improvement of energy systems and/or fluid-thermal systems and their components.
 - Thermo-hydraulic energy storage including compressed air energy storage and/or thermal energy storage
- Renewable energy: Concentrated solar power and/or biomass energy systems.
- Proven record of external funding applications, awards and management
- Academic credibility as recognised by peers and the scientific and/or business environment
- Proof of a national and international network in the academic environment and related industry
- Research project management experience



Interested?

Job-Related Enquiries	Dr J Combrinck	✉ jcombrinck@cut.ac.za
Remuneration, Benefits and Process Enquiries	Recruitment Office	✉ jobs@cut.ac.za

To find out more or to apply, visit www.cut.ac.za/careers or <https://cut.simplify.hr/>

CLOSING DATE FOR APPLICATIONS – 23 June 2023

THINKING BEYOND