



DEPARTMENT OF ELECTRICAL ENGINEERING

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POST-DOCTORAL RESEARCH FELLOWSHIPS

Applications are invited from suitably qualified candidates for Post-Doctoral Fellowships in the Department of Electrical Engineering at the University of Cape Town. The purpose of the fellowship is to enable suitably qualified candidates to undertake research in the areas of Electrical Engineering. Applicants are required to liaise and secure a Principal Investigator from the list below before submitting an application.

Bio-Inspired Robotics / Biomechanics	A.Patel@uct.ac.za
Computational Electronics / Computational Electromagnetics	Alireza.Baghai-wadji@uct.ac.za
Control Systems (Quantitative feedback theory and state estimation).	Edward.Boje@uct.ac.za
Condition Monitoring of Electrical Machines, Drives, Power Converters, Fuel Cells, Batteries	Paul.Barendse@uct.ac.za
Development and Applications of Small Satellite Systems / - Space Situational Awareness	Peter.Martinez@uct.ac.za
Effects of Geomagnetically induced currents in power systems	Ct.Gaunt@uct.ac.za
Millimetre-wave Antennas and Filters	Riana.Geschke@uct.ac.za
Power Conditioning with Power Electronics, PV Power integration, Wireless Charging of Electrical Vehicles	Moin.Hanif@uct.ac.za
Electrical Machines, Drives, Power Converters, Wind Energy	Azeem.Khan@uct.ac.za
Power System Networks and Energy	Komla.Folly@uct.ac.za
Radar Signal Processing / Machine Learning & Big Data	Amit.Mishra@uct.ac.za
Radar Systems / Radio Frequency Interference (RFI) / Antenna Design / Passive Multistatic Radar / Electronic Defence	Daniel.Ohagan@uct.ac.za
Radar/Sonar Signal and Image Processing; UWB Radar, SAR, Electrical & Microwave Tomography, Instrumentation	Andrew.Wilkinson@uct.ac.za
Radio Resource Allocation in 5G Networks	Olabisi.Falowo@uct.ac.za
Renewable Distributed Generation and Microgrids	Sunetra.Chowdhury@uct.ac.za
Wireless Telecommunication Systems and Networks.	Mqhele.Dlodlo@uct.ac.za

Conditions of Award:

- Possession of a PhD degree awarded in the last 5 years.
- Post-doctoral Fellows are expected to conduct research that results in quality journal publication output.
- Applicants may not have held any prior permanent academic or professional positions.
- Individuals who are in full-time employment are ineligible to apply.
- Although successful candidates will be permitted to take up part-time employment (maximum 10 hours per week) they may not hold salaried/full-time employment concurrently.
- Successful candidates will be required to comply with the University's approved policies, procedures and practices for the postgraduate sector.
- The Fellow will be expected to register at UCT **by no later than 15 August 2016**.

Value and Tenure:

- The Postdoctoral Research Fellowship is valued at R250 000 per annum and the tenure is for one year.
- The Fellowship is considered to be compliant with the rules and policies of the SARS, and is therefore exempt from taxation.
- The Fellowship does not include any allowances or benefits.

Applications should include:

- a research proposal in which evidence of the required experience is provided and endorsed by the host UCT Principal Investigator;
- a letter of application and detailed CV including all publications (journals and conference etc);
- copies of academic transcripts and degree certificates;
- letters of reference from two senior research staff / academics who have supervised / taught the applicant.

Complete applications should be submitted electronically to: Janine.Buxey@uct.ac.za

Closing date for complete applications is 15 July 2016

Selection process:

Eligible and complete applications will be considered by a sub-committee in the Department of Electrical Engineering, and selection will be made on the recommendation of the applicant's host principal investigator and the Head of Department.

The University of Cape Town reserves the right to change the conditions of award; disqualify ineligible, incomplete and/or inappropriate applications and/or to make no awards at all.