



UNIVERSITY OF CAPE TOWN



Paediatric Neurosurgery Unit
Division of Neurosurgery
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Advert for Postgraduate degree in Neuroscience (Brain Imaging)

A Master's or PhD in Neuroscience project is being offered in the UCT Neuroscience Institute, Division of Neurosurgery.

Scope of the research: Brain Imaging

We are looking for prospective Masters and PhD students interested in advanced brain imaging. Our interest is in acute brain injury (trauma and infections) and how advanced brain imaging can help us understand disrupted brain physiology, explore brain pharmacokinetics of critical drugs, determine the differences between adult and paediatric brains, and predict functional outcomes. Projects will involve use of the 3T MRI at UCT CUBIC and the newly installed PET scanner. Students will be supported by the NRF SARChI Chair for Clinical Neurosciences for their projects, travel, and engagement with international groups.

Conditions of the award: we are looking for a candidate who

1. Has completed a BSc or MSc in Neuroscience/ physiology/ physics/ pharmacology or other biomedical domain within the last 5 years. Preference will be given to candidates with previous experience with imaging analysis.
2. Has not held full-time permanent academic or professional posts
3. Is mobile and able to work flexible hours.
4. Is able to travel for possible work training in Europe.
5. Is focussed, hardworking, flexible and can work independently.
6. Is a South African citizen or already holds a valid student visa for South Africa.

The Fellow will be required to:

1. Gather, curate and analyse patient imaging data
2. Set up systems for imaging schedules and patient appointments
3. Write up research for publication and present at local and international meetings
4. To comply with the University's approved policies, procedures and practises for the postgraduate sector.

Tenure and value:

The value of the bursary will be within the NRF's prescribed range, carries no fringe benefits and is for full time study. The project will run for 2-4 years depending on the level of postgraduate study and with the option to extend if applicable, the position is available from January 2021.

Application procedure:

Please send through a letter of application stating which project you are applying for, areas of expertise and research interests, a full CV, copies of academic transcripts, and the names of 2 referees to Professor Anthony Figaji (Anthony.Figaji@uct.ac.za). Eligible and complete applications will be considered by the Division of Neurosurgery.

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

Prof Figaji

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Scientific Chair, Society of Neurosurgeons of South Africa
Past President, International Neurotrauma Society
Paediatric Lead, Brain Trauma Foundation