



TWO POST-DOCTORAL POSITIONS AVAILABLE FOR SOUTH AFRICAN AND INTERNATIONAL CANDIDATES.

The NRF SARCHI Chair in “Development and Optimization of Wastewater Treatment Technology for Developing Economies” is based at the Institute for Water and Wastewater Technology. Currently 2 Post-Doctoral Fellow (PDF) positions are available for suitably qualified individuals with a PhD / D Tech. The period is for 2 years and bursaries will be provided based on NRF rates for PDF

POSITION 1.

HEALTH-RELATED ENVIRONMENTAL MICROBIOLOGY AND RISK ASSESSMENT.

The suitable candidate should have a background in Environmental or Medical Microbiology with a documented knowledge in traditional and molecular methods directed towards the detection, quantification and characterization of bacteria, viruses and/or protozoa in aquatic systems. Microbial Risk Assessment, and knowledge in environmental epidemiology as well as microbial co-interactions will be an advantage.

Your work will be directed towards small- or large scale wastewater treatment and the downstream impact in receiving waters as well as the impact in crop irrigation, on downstream communities and in outfall areas

POSITION 2.

CATCHMENT RELATED CHEMICAL AND MICROBIAL ENVIRONMENTAL IMPACT ASSESSMENT.

The candidate should have a sound knowledge in Chemistry and/or Microbiology including knowledge of environmental/health impact assessment. The candidate should be well acquainted with catchment based approaches including hydrology and GIS and with well-documented analytical skills, statistical methods and have a knowledge in modelling of processes or impact areas. Your work will be directed towards the impact of outfalls from wastewater treatment or diffuse sources of pollution on receiving waters and the consequences of this from a human and environmental perspective.

The candidates should have a track record of publications and presentations. He/She should be team-worker, but also have the ability of independent experimental and field work capacity and should be prepared to co-supervise Doctoral, Master's and Diploma Students.

To apply for the above positions please submit:

- A covering letter stating which position you apply for and a short background on both your current specific research interests and your future approaches within the theme area.
- A Detailed CV
- Full academic record and certificate of previous qualifications
- Certified copy of your ID

RSVP by 15 January 2014

Contact persons: Julian T. Arran, [Tel:+273736705](tel:+273736705); mobile +27848225914, E-mail: juliana@dut.ac.za or Prof Thor Stenstrom, SARCHI Chair, *Institute for Water and Wastewater Technology, Durban University of Technology, PO Box 1334, Durban 4000, South Africa* [Tel:+273736703](tel:+273736703); mobile +27824819814, E-mail: thors@dut.ac.za, Web: <http://www.dut.ac.za/iwwt>