



Postgraduate Student Opportunities 2018 - 2020

The Marine-Atmosphere-Biogeochemistry group in the Department of Oceanography and Atmospheric Sciences at the University of Cape Town has multiple MSc and PhD Scholarship opportunities available for postgraduates to start in 2018 and/or 2019.



An interdisciplinary team of researchers from UCT Oceanography and the Climate Studies, Modelling and Environmental Health Research Group at the CSIR will be conducting a 3-year research project on "*Biogeochemical controls on the sources and chemical composition of Southern Ocean marine aerosols*" funded by the NRF South African National Antarctic Programme.

Applicants should have an Honours or Masters degree in:

chemistry, oceanography, environmental sciences, biological sciences, marine biology, or computer science.

This research aims to characterize biogeochemically- and climate-relevant aerosols in the highly dynamic and remote Southern Ocean. The student research opportunities include components of atmospheric chemistry, ocean biogeochemistry, and earth systems modelling addressing questions related to:

- the air-sea flux of ammonia
- the composition and climate impact of ammonium aerosols
- the role of surface ocean primary productivity as a driver of marine organic aerosols
- improving the representation of marine aerosols in earth systems models.

Field work opportunities include oceanographic research cruises in the South Atlantic and the Southern Ocean on the *R/V SA Agulhas II*.

All applicants should be passionate about scientific research, curious about the environment, self-motivated, hard-working, and able to work independently and in a team. **To apply, email your academic transcripts, a short CV, and a one page letter of motivation to katye.altieri@uct.ac.za.**

