



Postdoctoral position to study trace metals and oxygen dynamics in South Atlantic Ocean:

The [Trace Metal Experimental and Biogeochemistry Group](#) within the [Department of Earth Sciences, Stellenbosch University, Western Cape, South Africa](#), invites applications for a three-year postdoctoral position. The project is part of a large multi-institute interdisciplinary project funded by Schmidt Oceans to constrain

biogeochemical process in the South Atlantic Ocean. This post-doctoral research project will focus on the biogeochemical cycling of iron using their isotopic signature to identify the sources of iron along the west African margin. The postdoctoral fellow must have experience in analyzing iron isotopes using Multicollector-ICPMS and be proficient in working in clean laboratory environment. They will be responsible for setting up the iron isotope analysis method on the newly acquired Neoma MC-ICPMS at Stellenbosch University. Sea-going for extended periods is a requirement for this project and familiarity with work at sea is welcome, but prior experience is not a requirement. Other research project possibilities also exist within the research group.

Candidate must have experience in working and maintaining trace-clean laboratories. Preference will be given to applicants with expertise in trace metal analysis using SeaFast/ICP-MS and has experience with marine and aerosol particle digestion techniques, including sequential digestions.

Applicants should have a doctoral degree in a related discipline such as Marine Biogeochemistry, Earth Sciences, Marine Chemistry, Biology, and a record of scientific research publications in scholarly journals relevant to this position. Postdoctoral activities will include experiment design and implementation, data collection, and modelling, as well as dissemination of results as publications and conference presentations. The applicant may assist with future proposal preparation and will have the opportunity to advise graduate students and, to some extent, support undergraduate teaching and outreach activities. Opportunities for interdisciplinary research exist through collaboration with the other groups in South Africa (e.g., oceanography, biotechnology) and internationally (e.g., Princeton University).

The position is for 36 months, commencing from June 2025 or soon thereafter. Renewal of the position after first and subsequent years is subject to performance and available funding. For further information about the project and to apply please contact Prof A Roychoudhury (roy@sun.ac.za). Applications should include, as a single pdf document, a cover/motivation letter, a comprehensive CV and a research statement. Please also provide the names and contact information for three professional references. Visit tracexsite.wordpress.com for general information on the research group and facilities available.