

## PhD position in Marine Biogeochemistry/Chemical Oceanography

A PhD Position is available at the GEOMAR Helmholtz Centre for Ocean Research Kiel, Germany, within the German Research Foundation (DFG) collaborative research centre (SFB) 754: Climate-Biogeochemical Interactions in the Tropical Ocean.

Topic of PhD: Iron stabilisation and transfer in tropical oxygen minimum zones

within the SFB 754 subproject B10.

### Job Description / Duties

The candidate will be part of a team that investigates the transfer of iron from the sediments to the surface ocean and the subsequent stimulation of ocean productivity and dinitrogen fixation. We are interested in the mechanisms that stabilise Fe in the water column, including Fe ligand and Fe nanoparticle formation. It is expected that the candidate will participate in sea-going expeditions where she/he will be part of a team studying water column trace element distributions, sediment iron release, and ocean mixing processes. Trace element samples from the expeditions will be analyzed in the laboratory in Kiel and the results interpreted in the context of the other oceanographic observations. The candidate is expected to critically examine data from the expeditions and evaluate these in order to quantify the horizontal and vertical transfer of iron, and its stabilisation, in the oxygen minimum zone of the northeastern tropical Atlantic and the Peru region. A comparison between the trace element observations and modeled distributions will be undertaken. The PhD project is part of the collaborative research centre SFB 754, <http://www.sfb754.de/>.

### Qualification

A qualification comparable to a Master's degree or Diploma in chemistry, environmental chemistry, (chemical) oceanography or related field is required. Experience in analytical chemistry and / or marine biogeochemistry is desirable. We also expect good English language skills, and that the candidate is willing and able to participate in sea-going expeditions of several weeks duration. The candidate is expected to enroll in the Integrated School of Ocean Science (ISOS) PhD program, <http://www.ozean-der-zukunft.de/isos/>.

This is a part-time position according to 75% of a full-time equivalent. The position cannot be split.

The position is available for an initial 2 year funding period, with an extra year funding expected. The salary will be according to class E13 TVöD of the German tariff for public employees.

The GEOMAR Helmholtz Centre for Ocean Research Kiel is an equal opportunity employer and encourages female scientists and scientists with disabilities to apply.

Early applications are encouraged as the position is open until a suitable candidate is found.

Applications including a letter of motivation, CV and contact details of 3 referees should be sent to the following address or e-mail ([bmoll@geomar.de](mailto:bmoll@geomar.de)) with a single pdf file, using the keyword "SFB754-B10":

GEOMAR Helmholtz-Zentrum für Ozeanforschung Kiel  
Personalabteilung  
Frau Moll  
Wischhofstraße 1 – 3  
D-24148 Kiel  
Germany

Please also email the application to [eachterberg@geomar.de](mailto:eachterberg@geomar.de).

Please mention the keyword on the envelope and on the application. A re-addressed envelope is greatly appreciated.

For further information please contact Prof. Dr. Eric Achterberg ([eachterberg@geomar.de](mailto:eachterberg@geomar.de)) or Dr. Martha Gledhill ([mgledhill@geomar.de](mailto:mgledhill@geomar.de)).