

Biogeochemistry - long term research position

Duration of contract: 5 years starting 1st September 2008

Place of assignment: Universidade do Algarve, Faro, Portugal - Centro de Investigação Marinha e Ambiental (CIMA)

Deadline for candidature: 2nd May 2008

Main scientific goals of research:

Research activities will focus on benthic biogeochemistry/geochemistry, , both in intertidal and estuarine areas, in order to clarify:

- (1) The role of local sediments in relation to carbon and nutrient storage and budgeting at different time scales
- (2) Their functional plasticity in response to physical (temperature, tides) and biological (microphytobenthic and macrofaunal activity) and geochemical forcing (land-ocean exchanges, sedimentological parameters)

Researcher should have experience in studying the biogeochemistry of coastal marine ecosystems, with a background in diagenesis of intertidal systems, and will be able to apply the relevant technology to the study of biogeochemical process kinetics in coastal sediments. By combining field and laboratory work the research activities will allow incorporation of results in mass balance considerations applied to the multi-timescale budgeting of organic Carbon in different molecular/macromolecular forms.

The successful candidate may be requested to collaborate in teaching of geochemistry related subjects on postgraduate level. She/he also should be able to develop the joint activities with CIMA's MSc and Phd students and will participate in formulation of new research projects in the field of biogeochemistry and global change.

Additional information can be obtained from CIMA (Dr. Tomasz Boski (tboski@ualg.pt))

Requirements:

1. PhD in a relevant research area (Marine Science, Geochemistry - Geology, Marine Chemistry or Biogeochemistry, , for example)
2. Three years minimum Post-doc experience in biogeochemical studies of coastal/marine systems, including the knowledge of modelling techniques
3. Experience in process kinetic studies and diagenesis modelling also with respect to the geological time-scales
4. Background knowledge on southern European coastal ecosystems
5. The fluent knowledge of English is mandatory, notwithstanding the active knowledge of Portuguese language is a strong asset
6. Requested documents: CV, motivation letter, 2 reference letters from senior researchers