Griffith UNIVERSITY

Postdoctoral Research Fellow Opportunity

Biogeochemical Modeller

Reference 497427

We are seeking a postdoctoral research fellow to develop and implement biogeochemical models that describe the partitioning of Persistent Organic Pollutants (POPs) in coastal Antarctic ecosystems. The focus of the research will be to model the processes that move POPs between phases within the coastal Antarctic environment, with particular emphasis on physical processes such as temperature change and sea-ice melt, and biological processes such as plankton blooms. The position is available for a fixed term (up to 3 years), full time, and is based at Griffith University in Brisbane, Australia. The position is jointly funded by Griffith University and the Australian Antarctic Division.

The occupant of this position will be required to develop, maintain and implement coupled fugacity-ecosystem pde models that simulate the distribution and movement of Persistent Organic Pollutants in coastal Antarctic ecosystems. These models will predominantly be developed in the MATLAB programming environment.

The successful candidate will have a PhD in applied mathematics or similar discipline, with experience in modelling complex biogeochemical systems. Knowledge of fugacity/activity based chemistry models would be an advantage. Sound competency in computer programming and numerical analysis, is required.

For full section criteria goto http://jobs.griffith.edu.au/jobSearch.asp and enter the reference code 497427.

For further information contact: Dr Roger Cropp r.cropp@griffith .edu.au