Joint project
Department of Geosciences, University of Bremen
Federal Institute for Geosciences and Natural Resources (BGR), Hannover
Postdoctoral fellow

Detecting Holocene changes in the Atlantic Meridional Overturning Circulation: Integration of Proxy Data and Climate Simulations (short title: DAMOCLES).

This interdisciplinary project investigates the changes in the properties of upper-ocean water masses that are possibly associated with variations of the Atlantic Meridional Overturning Circulation during the Holocene. The goal is to combine paleo-proxy data with climate model studies in order to advance our understanding with respect to abrupt climate changes.

This project is carried out in close collaboration by the Geosystem Modelling Group of the Department of Geosciences at the University of Bremen and the Federal Institute for Geosciences and Natural Resources (BGR), Hannover, both in Germany. It is funded by the Deutsche Forschungsgemeinschaft (DFG) through the Priority Programme SPP 1266 "Integrated Analysis of Interglacial Climate Dynamics" INTERDYNAMIK (http://www.interdynamik.de/English).

Applications are invited for a two-year fixed-term (starting a.s.a.p) postdoctoral research fellow position to work on the implementation and calibration of additional geochemical tracers in the University of Victoria Earth-System Climate Model (UVic ESCM), carry out control and sensitivity experiments and perform the statistical analysis of model results and proxy data.

Requirements:
Completed doctoral degree, preferentially in Physics, Physical Oceanography, Earth Sciences or Geosciences
Experience in shell-programming on UNIX and LINUX platforms
Skills in scientific computing (in Fortran and MATLAB) and visualizing numerical model output (e.g. using Ferret, GMT).

Salary will be according to the German civil service remuneration system TV-L 13.
Applicants should submit by May 20th, 2008:
CV,
Documents (no originals),
Statement describing specific interest in the respective project and relevant experience,
Names and addresses of two references.

Materials should preferably be emailed to Dr. André Paul (apau@palmod.uni-bremen.de), or they could be sent to Dr. André Paul, c/o Department of Geosciences – University of Bremen, PO Box 33 04 40, D-28334 Bremen, Germany.

Applicants should have excellent English language skills and enjoy working in an international and interdisciplinary team.

As the University of Bremen intends to increase the proportion of female employees in science, women are particularly encouraged to apply.

In case of equal personal aptitudes and qualification disabled persons will be given priority.