

Ocean Modeller (MITgcm) – Cambridge

Job reference:

BAS 30/17

Contract type:

Full Time

Duration:

Fixed Term Appointment (2 Years)

Salary:

In the range of £28,200 and £30,600 per annum

Benefits:

We offer generous benefits

Team:

Polar Oceans team

Location:

Cambridge

Closing date:

30 April, 2017 3:18 pm

- Description
- Skills specification
- How to apply

Description

The British Antarctic Survey (BAS) is looking for an Ocean Modeller (MITgcm) to join the Polar Oceans/Shelf Seas Team. In this position, the successful candidate will be updating existing models of recent field campaigns on Filchner Ice Shelf, investigating the sensitivity of ocean circulation and ice shelf melting, use the results to optimise the model and produce a forecast of ice shelf melt rates. The successful candidates must have practical experience in the development and running of numerical models of ocean circulation, experience in the numerical

solution of partial differential equations, experience on both Unix and PC-based systems and knowledge of Fortran.

Purpose

To develop, test, run and evaluate a high-resolution regional ocean model of the Weddell Sea, including the ice shelves.

Qualification

First degree in physical science/mathematics plus PhD (or equivalent)

Duties

- Update an existing high-resolution model domain with new data on sub-ice-shelf geometry collected during recent field campaigns on Filchner Ice Shelf.
- Investigate the sensitivity of ocean circulation and ice shelf melting to critical model parameters.
- Investigate the sensitivity of ocean circulation and ice shelf melting to high- and low-resolution surface forcing.
- Use the results of the sensitivity studies to optimise the model, using observations of sub-ice circulation and ice shelf melt rates collected during recent field campaigns on Filchner-Ronne Ice Shelf.
- Using the optimised regional configuration, derive the ice shelf melt rates resulting from steady climatological forcing the impact of prescribed perturbations in forcing.

On-line application forms and further information are available on our website at www.bas.ac.uk/jobs

These are also available from the Human Resources Section, British Antarctic Survey, High Cross, Madingley Road, Cambridge, CB3 0ET. Tel: (01223) 221508.

Please quote reference: BAS 30/17

Closing date for receipt of application forms is: 30th April 2017

Interviews are scheduled to be held on: w/c 22nd May 2017

Start Date: June 2017

We welcome applications from all sections of the community. People from ethnic minorities are currently under-represented and their applications are particularly welcome.

Apply online