

Cloud Physicist/Modeller – Cambridge

Job reference:

BAS 120/16

Contract type:

Ful Time

Duration:

Fixed-Term Appointment (20 Months)

Salary:

In the range £28,200 to £30,600 per annum

Benefits:

We offer generous benefits

Team:

Science teams

Location:

Cambridge

Closing date:

15 January, 2017 11:59 pm

Description

The British Antarctic Survey (BAS) are currently looking for a Cloud Physicist/Modeller to join the Climate Processes Team. The position involves the development of new cloud parameterisations to be used in forecast and climate models at high southern latitudes. To be successful in this position, you will need experience or knowledge of cloud physics and atmospheric modelling, excellent numeric skills and knowledge of scientific and numerical software packages such as MatLab, IDL and Python. Excellent communication skills are essential to work both independently and as a part of a wider team.

Purpose

To run the Polar version of the Weather Research and Forecasting model in Cambridge and develop new cloud parameterizations based on observations taken during the recent MAC field campaign at Halley Station.

Qualification

PhD in numerate field (or equivalent research experience)

Duties

- To run Polar WRF for a series of test cases associated with observations made during recent field campaigns. This will include investigating the importance of the choice of cloud microphysics scheme and its relation to the radiation scheme within the model. If resources allow other models may also be used.
- New cloud parameterisations will be developed for Polar WRF to better represent Antarctic clouds. This may involve developing and tuning the existing cloud microphysical schemes or implementing new ones within WRF.
- To continue the analysis of the observations made during the recent field campaign at Halley Station and in particular to retrieve the cloud parameters that will be of use in validating the cloud predicted by forecast and climate models.

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 120/16

Closing date for receipt of application forms is 15th January 2017

Interviews are scheduled to be held on w/c 6th February 2017

Proposed start date: ASAP

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