



UNIVERSITY OF
CAMBRIDGE

Department of Earth
Sciences

We are currently advertising two fixed-term Postdoctoral Research Associate positions in the general area of climate science. Details below:

Postdoctoral Research Associate in palaeoclimate modelling

The Department of Earth Sciences, University of Cambridge, is seeking a Post-doctoral research associate (PDRA) in paleoclimate modelling to support the interpretation of a new ice core. The new core will be used to assess the state of the West Antarctic Ice Sheet at the last interglacial. The PDRA position is part of the WACSWAIN project, funded by the European Research Council.

The PDRA position is for 2 years. We are seeking someone to start in summer/autumn 2019. The successful applicant will join the WACSWAIN team (<https://www.esc.cam.ac.uk/research/research-groups/wacswain>), led by Prof. Eric Wolff at University of Cambridge, and will be supported by the paleoclimate modelling group, led by Dr Louise Sime at the British Antarctic Survey, Cambridge.

In 2018/19 the WACSWAIN team retrieved a new 651 m core to bedrock at Skytrain Ice Rise, bordering the Ronne Ice Shelf and the West Antarctic Ice Sheet (WAIS). The PDRA will use the differences in the oxygen isotope record from Skytrain Ice Rise and from existing ice cores in other parts of Antarctica to assess the status of the WAIS in the last interglacial. This will involve using water-isotope-enabled GCMs to study the differences in isotopic response based on different scenarios of ice sheet history. A range of ice sheet histories from modelling experiments are available from the literature and database archives as input. Additionally the PDRA will assess possible changes in bed (and therefore ice) elevation at Skytrain Ice Rise, working in collaboration on GIA modelling led Dr Pippa Whitehouse at Durham University. The PDRA will both evaluate existing isotope-enabled GCM simulations and as necessary run further simulations with new WAIS change scenarios. The isotope enabled modelling will be supported by the British Antarctic Survey paleoclimate modelling group.

Applications are invited from candidates with relevant expertise and knowledge in climate modelling using GCMs. Experience specifically with palaeoclimate modelling, and/or water isotope modelling, and/or with the HadCM3 model would be advantageous. Candidates must be confident in handling climate model output, and be able to demonstrate sufficient knowledge of palaeoclimate and ice core science.

The candidate will have (or be about to obtain) a PhD in a relevant area and in addition to the skills discussed above will have good communication skills, the ability to work in a team, good IT and data handling skills, and preferably a track record of publication in peer-reviewed journals.

Fixed-term: The funds for this post are available for 2 years in the first instance.

Further particulars and information at <http://www.jobs.cam.ac.uk/job/20917/>, you can use this link to apply online for this vacancy from the University's Job Opportunities pages. There you will need to click on the 'Apply online' button and register an account with the University's Web Recruitment System (if you have not already) and log in before completing the online application form.

Enquiries concerning this position should be directed to Prof. Eric Wolff (ew428@cam.ac.uk). Should you have any questions about the application process, please contact Jane@esc.cam.ac.uk

Please quote reference LB18587 on your application and in any correspondence about this vacancy.

The closing date is **24 August 2019**.

Post-doctoral research associate in speleothem palaeoclimatology

The Department of Earth Sciences, University of Cambridge, is seeking a Post-doctoral research associate (PDRA) in speleothem palaeoclimatology. The role is to perform geochemical analysis and date stalagmites in caves collected from the northern Yucatan Peninsula, Mexico. Interpretation of the palaeoclimatic history of the region will be compared with the archaeological record to provide the climate context in which the Maya civilisation evolved. The programme is funded by the Leverhulme Trust and the PDRA is for 3 years. Ideally the candidate would start in 2019.

Applications are invited from candidates with relevant expertise in palaeoclimate and geochemistry, preferably including caving experience and postgraduate work with speleothems. Analytical expertise in stable isotope and trace element geochemistry and U-series/radiocarbon dating are desirable. You will work as part of a wider team of speleothem palaeoclimatologists and archaeologists to build a robust history of palaeoclimate change in northern Yucatan at both a local and regional scale using conventional and novel (SIMS, SR-microXRF) methods.

The candidate will have (or be about to obtain) a PhD and preferably some postdoctoral experience in a relevant area. They will have significant experience in geochemistry and paleoclimatology, good communication skills, the ability to work in a team, good IT and data handling skills, and preferably a track record of publication in peer-reviewed journals.

Further particulars and information at <http://www.jobs.cam.ac.uk/job/22367/>, you can use this link to apply online for this vacancy from the University's Job Opportunities pages. There you will need to click on the 'Apply online' button and register an account with the University's Web Recruitment System (if you have not already) and log in before completing the online application form.

Enquiries concerning this position should be directed to Prof. David Hodell (dah73@cam.ac.uk).

Please quote reference LB19915 on your application and in any correspondence about this vacancy.

The closing date is **31 August 2019**.

The University and the Department are committed to equality and diversity and inclusion and encourages applications from all sections of society. The University holds an institutional Athena-SWAN silver award and the Department is a bronze award holder. Details of some of the family-friendly policies operated by the University are at: <http://www.hr.admin.cam.ac.uk/pay-benefits/cambens-employee-benefits/family-friendly>.

The University has a responsibility to ensure that all employees are eligible to live and work in the UK
See also our website <http://www.esc.cam.ac.uk>

Department of Earth Sciences, Downing Street, Cambridge CB2 3EQ, UK.



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