

LAND SURFACE PROCESSES COMPUTATIONAL SCIENTIST

University of Reading, National Centre for Atmospheric Science, Geography & Environmental Science/Meteorology

Job Reference: JTR00119

Closing Date: 1st May 2017

Salary: £29,301 to £38,183 per annum

Start Date: as soon as possible

Full Time, Fixed Term for up to 3 years

Interview Date: TBC

Apply online: <https://jobs.reading.ac.uk/displayjob.aspx?jobid=720>

We seek a motivated and ambitious computational scientist to join the University of Reading's Land Surface Processes (LSP) team. The post holder will support the University's LSP programme in all aspects of the modelling workflow, improving the overall technical and scientific performance of land surface models such as JULES, CLM and C-Tessel, including code portability, scalability, data management and analysis, as well as the associated workflow infrastructure. Scientists working in this area utilise and develop world-leading numerical models of the land surface, as used in Global Climate models, for example for IPCC studies, using advanced workstations, cloud computing, as well as the world's most powerful supercomputers. It is expected that the post holder will enable innovative experimental campaigns, state-of-the-art model intercomparison studies, and will benefit from co-authorship of peer-reviewed papers.

You will have:

- Experience of working with complex environmental simulation systems and their underlying infrastructure, including code management and documentation for large collaborative groups
- Excellent computational and programming skills including FORTRAN (90, 95), Python and UNIX/Linux shell scripting
- Experience of working with Large Data, including data standards (e.g. NetCDF4, HDF5, GRIB2)
- Experience of developing and debugging parallel codes, including codes for data analysis
- Knowledge of High Performance Computing (HPC), parallel programming and numerical modelling
- First degree in a computational or scientific discipline
- Strong analytic and communication skills.

Informal Contact Details

Contact role: Principal Investigator

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Alternative Informal Contact Details

Contact role: Co-Advisor

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