Position Details

Research Projects- CSOF4

THE FOLLOWING INFORMATION IS FOR APPLICANTS	
Advertised Job Title	Atmospheric modeller - ACCESS
Job Reference	87586
Tenure	Specified Term of up to 3 years Full-time
Salary Range	AU$87,068 to AU$98,504 per annum (pro-rata for part-time) plus up to 15.4% superannuation
Location(s)	Aspendale preferred, or Canberra or Hobart
Relocation Assistance	Will be provided to the successful candidate if required
Applications are open to	All candidates
Position reports to the	Team Leader – Coupled Climate Modelling
Client Focus – Internal	80%
Client Focus – External	20%
Number of Direct Reports	0
Enquire about this job	Harun.Rashid@csiro.au or phone +61 3 9239 4532
How to apply	Apply online at https://jobs.csiro.au/ Internal applicants please apply via **Jobs Central** If you experience difficulties when applying, please email careers.online@csiro.au or call 1300 984 220.

Acknowledgement of Country

CSIRO acknowledges the Traditional Owners of the land, sea and waters, of the areas that we live and work on across Australia. We acknowledge their continuing connection to their culture and pay our respects to their Elders past and present. View our vision towards reconciliation.

Role Overview

The role of Research Projects staff in CSIRO is to collaborate in scientific and technological activities with other research staff, usually by assisting with detailed planning, undertaking or assisting with experimental, observational or technology development work, and in carrying out the more practical aspects of the work.

The Australian Community Climate and Earth System Simulator (ACCESS) is a key tool for CSIRO to produce model simulations of present and future global climate. The role provides technical support

for the ACCESS model with a particular focus on the atmosphere component (the UK Met Office Unified Model) as well as the interaction of the atmosphere with the Australian land surface model (CABLE). The position is in the Coupled Climate Modelling Team in the Climate Science Centre, a program within CSIRO Oceans and Atmosphere.

This position will help in developing and maintaining a world-class climate and earth system model in ACCESS and in contributing to cutting-edge climate science research. You will also be involved in delivering model simulations to international projects, such as the Coupled Model Intercomparison Project (CMIP), which underpins the Intergovernmental Panel on Climate Change reports.

Duties and Key Result Areas

- Working on ACCESS climate model applications, solve technical computing problems promptly and in a constructive manner. The focus is on the atmosphere component of ACCESS, including interactions with the land-surface and with chemistry. Seek new approaches to meet technical needs, where methods are not defined.
- Contributing to designing model experiments. Preparing input datasets for model runs. Setting up and managing ACCESS model runs including data storage.
- Post-processing, visualization and analysis of model output, including for model evaluation.
- Contributing to the writing of technical documentation and research papers and to publishing model output datasets.
- Developing relationships with collaborating groups to gain expertise in, and solve technical problems with coupling codes, component models and forcing datasets, in particular, the ACCESS-National Research Infrastructure facility and the UK Met Office.
- Communicate openly, effectively and respectfully with all staff, clients and suppliers in the interests of good business practice, collaboration and enhancement of CSIRO's reputation.
- Work collaboratively as part of a multi-disciplinary, regionally dispersed research team to carry out tasks in support of CSIRO's scientific objectives.
- Adhere to the spirit and practice of CSIRO's Values, Code of Conduct, Health, Safety and Environment procedures and policy, Diversity initiatives and Zero Harm goals.
- Other duties as directed.

Selection Criteria

Essential

Under CSIRO policy only those who meet all essential criteria can be appointed.

1. Relevant trade certificate/diploma/bachelor's degree or equivalent relevant work experience in computing, engineering or physical sciences.
2. Demonstrated experience solving technical computing problems associated with the development and use of large-scale numerical models.
3. Highly developed skills in Fortran 90 (preferred) or C++, python programming, and UNIX shell scripting.

4. Proven ability to work flexibly and independently as well as part of a team and to form and maintain effective working relationships with a range of colleagues and collaborators.
5. Excellent written and verbal communication skills including the ability to document results and communicate effectively with colleagues and clients in order to meet project goals and timelines.

Desirable

1. Experience with UM/ACCESS or other atmospheric modelling codes.
2. Experience of modern code management practices (e.g. experience with svn, github, bug-tracking and documentation systems).
3. Experience of data management practices and data publishing.
4. Knowledge of the physics of the climate system.
5. Experience working across a range of computing platforms including high-performance computing, and expertise in working with the Message Passing Interface (MPI), scientific computer graphics and netCDF data format.

Required Competencies

- **Teamwork and Collaboration:** Cooperates with others to achieve organisational objectives and may share team resources in order to do this. Collaborates with other teams as well as industry colleagues.
- **Influence and Communication:** Uses knowledge of other party's priorities and adapts presentations or discussions to appeal to the interests and level of the audience. Anticipates and prepares for others' reactions.
- **Resource Management/Leadership:** Allocates activities, directs tasks and manages resources to meet objectives. Provides coaching and on the job training, recognises and supports staff achievements and fosters open communication in the team.
- **Judgement and Problem Solving:** Investigates underlying issues of complex and ill-defined problems and develops appropriate response by adapting/creating and testing alternative solutions.
- **Independence:** Recognise and makes immediate changes to improve performance (faster, better, lower cost, more efficiently, better quality, improved client satisfaction).
- **Adaptability:** Copes with ambiguity or situations that lack clarity. Adapts readily to changing circumstances and new responsibilities (which may include activities outside own preferences) in the interests of achieving team objectives. Recognises the need for and undertakes personal development as a result of changes.

Special Requirements

Appointment to this role may be subject to conditions including the provision of a national police check as well as other security/medical/character clearance requirements.

- The successful candidate will be asked to obtain and provide evidence of a National Police Clearance or equivalent. Please note that individuals with criminal records are not automatically deemed ineligible. Each application will be considered on its merits.

About CSIRO

We solve the greatest challenges through innovative science and technology. Visit CSIRO Online and Ocean and Atmosphere for more information.

CSIRO is a values-based organisation. In your application and at the interview you will need to demonstrate behaviours aligned to our values of:

- People First
- Further Together
- Making it Real
- Trusted