



Position Details

Research Scientist/Engineer- CSOF5

THE FOLLOWING INFORMATION IS FOR APPLICANTS	
Advertised Job Title	Hydrological Modeller
Job Reference	84841
Tenure	Indefinite Full-time
Salary Range	AU\$102k - AU\$111k per annum (pro-rata for part-time) plus up to 15.4% superannuation
Location(s)	Black Mountain Laboratories, Canberra, ACT
Relocation Assistance	Will be provided to the successful candidate if required
Applications are open to	Australian/New Zealand Citizens and Australian Permanent Residents only
Position reports to the	Team Leader, Catchment Hydrology Team
Client Focus – Internal	30%
Client Focus – External	70%
Number of Direct Reports	0
Enquire about this job	Contact David Post via email at david.post@csiro.au or phone +61 2 6246 5751
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 the Research Scientist/Engineer staff is to conduct innovative research leading to scientific achievements that are aligned with CSIRO's strategies. You may be engaged in scientific activity ranging from fundamental research to the investigation of a specific industry or community problems. You will have the opportunity to build and maintain networks, play a lead role in securing

project funds, provide scientific leadership and pursue new ideas and approaches that create new concepts.

This role undertakes innovative research and lead components of high impact external projects related to the analysis of hydroclimate projections, catchment and regional-scale hydrology and how these impacts can be mitigated through changes in catchment management, river operations and policy setting.

The role will be responsible to provide baseline hydroclimate projections and hydrological impacts which are required for other researchers to assess changes to river systems operation and policy settings in order to better inform river managers and operators in the development and assessment of river management and regulation strategies that seek to enhance economic, environmental, social and cultural values.

The role will contribute to the strong multi-disciplinary capability in the Water Security Program of the L&W Business Unit, which undertakes research into hydrology and water resources, water-agriculture-livelihood interactions, integrated basin management, and adaptation to a changing climate.

It will support a range of externally-funded projects in south-eastern Australia, including the Murray-Darling Water and the Environment Research Program (MD-WERP) funded by the Murray-Darling Basin Authority, and the Victorian Water and Climate Initiative funded by the Victorian Department of Land and Water Planning.

Duties and Key Result Areas

The role of the successful applicant is to contribute to the hydroclimate analysis of large catchments and regional systems to provide projections of hydrological futures that can be used to identify enhancements to management and operations under future scenarios. The duties are:

- Undertake hydroclimate assessments of large river basins under historical and future climate and landuse change scenarios.
- Conduct original hydroclimate and hydrological modelling research to support adaptation to climate change through enhanced river basin management.
- Conduct original research in river system modelling in order to better predict the effects of adaptation strategies on basin conditions, particularly as related to water outcomes.
- Strong delivery to high impact projects and initiatives like the Murray-Darling Water and Environment Research Program (MD-WERP), Integrated Regional Water and Digital Water and Landscapes.
- Communicate research outcomes to scientific and industry forums through scientific publications, reports, and presentations.
- Work closely with industry clients to ensure delivery of research outcomes and transferring technologies and/or guidelines for adoption.

- Work effectively as part of a multi-disciplinary, often regionally dispersed research team, to undertake independent scientific investigations and carry out associated tasks under the guidance of more senior Research Scientists/Engineers.
- Under the guidance of Senior Research Scientists/ Engineers, work collaboratively and honestly with internal and external colleagues, clients and partners to help define and satisfy objectives for small to medium research projects.
- Adhere to the spirit and practice of CSIRO's Values, Health, Safety and Environment plans and policies, 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. A PhD (or an equivalent combination of qualifications and research experience) in a relevant field such as hydrological science or environmental science.
2. Experience researching climate change impacts on hydrology, and/or water resources adaptation to a changing climate.
3. Experience in the application of research informing management and planning in the water resources sector.
4. Strong oral communication skills including the ability to make scientific presentations to audiences with a scientific and non-scientific background.
5. A demonstrated publication history of authorship on scientific papers in peer-reviewed journals and/or conference papers and reports.
6. Demonstrated ability to work in a multi-disciplinary team in order to meet deadlines and respond productively to changing requirements,
7. An ability to work independently to define and carry out specific work goals.

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 responses by adapting/creating and testing alternative solutions.

- **Independence:** Plans, sets and works to meet challenging standards and goals for self and/or others. Recognises where endeavours will make the most impact or difference, decides on desired outcome and sets realistic goals to reach this target.
- **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 change.

Special Requirements

Appointment to this role may be subject to conditions including the provision of 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](#) 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

Find out more about [CSIRO Land and Water](#)