# Position Details

## Research Projects- CSOF4

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| The following information is for applicants | |
| Advertised Job Title | Hydrologist – Catchment and River Modeler |
| Job Reference | 79450 |
| Tenure | Indefinite  Full-time |
| Salary Range | AU$87k to AU$98k pa (pro-rata for part-time) + up to 15.4% superannuation |
| Location(s) | Canberra (Black Mountain) 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 |
| Client Focus – Internal | 80% |
| Client Focus – External | 20% |
| Number of Direct Reports | 0 |
| Enquire about this job | Contact Jai Vaze via email at [Jai.Vaze@csiro.au](mailto:Jai.Vaze@csiro.au) or phone +61-2-6246 5871 |
| 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](mailto: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 area 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](https://www.csiro.au/en/about/Indigenous-engagement/Reconciliation-Action-Plan).

### 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.

This role of a Research Project Officer is a part of CSIRO Land and Water (L&W) line of business. which is a national and international partnership led by CSIRO and involving leading research providers from the national and global innovation systems. Our expertise addresses Australia’s national challenges and is increasingly supporting developed and developing nations response to complex economic, social, and environmental issues related to water, land, cities, and ecosystems. L&W delivers solutions for sustainable development and stewardship of land, water, ecosystems, and communities. Through an integrated systems research approach, we provide the information and technologies required by government, industry, and the Australian and international communities to protect, restore, and manage natural and built environments

The Research Project Officer - Hydrologist (landscape and river modeler) role will support the hydrological science and modelling capability in the Water Security Program of the Land and Water Business Unit. The hydrologist will contribute strongly to water resources assessments and especially river system modelling projects and web delivery. The role will also contribute to the wider inter - disciplinary efforts of the Land and Water Business Unit in integrated water resource management and development impacts on water and environment.

### Duties and Key Result Areas

* Under general direction, support in depth research in hydrological science and hydrological modelling.
* Undertake a wide variety of tasks within high impact external projects (e.g. the Northern Australia Water Resources Assessments).
* Contribute to inter-disciplinary research within CSIRO and Land and Water Business Unit, particularly in the areas of integrated water resource management, development impacts and web delivery of river models.
* Build web-based interface for river system models enabling any user to access and use models, import modelling results into web-based explorer tool and deliver river models through the river modelling app (R Shiny web app)
* Communicate research outcomes including scientific publications and reports as well as presentations to scientific and industry forums.
* 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 Making Safety Personal goals.
* Other duties as directed.

## **Selection Criteria**

#### Essential

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

1. Relevant tertiary degree or equivalent relevant work experience in hydrology or environmental sciences.
2. Demonstrated experience in landscape hydrological modelling and complex spatial analysis.
3. Demonstrated experience in river system modelling, building web-based interfaces and web delivery of river models (using the R Shiny web app.)
4. Demonstrated experience in programming and working with large datasets that cover large spatial and temporal scales.
5. Strong written and oral communication skills to cater to both the technical and non-technical audiences.
6. Ability to work in multi-disciplinary teams to deliver strong science and impact, and ability to respond productively to changing requirements.

## **Desirable**

1. Experience with Python and ArcGIS programming and use of river models (AWRA-R) and R Shiny web app.
2. Experience with landscape and river system models and web delivery

## **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 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 Check or equivalent. Please note that people 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. To find out more visit us [online](http://www.csiro.au/)!

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

* 1. People First
  2. Further Together
  3. Making it Real
  4. Trusted

Find out more about CSIRO [Land and Water](https://www.csiro.au/en/Research/LWF)