# Position Details

## Research Scientist/Engineer- CSOF5

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| The following information is for applicants |
| Advertised Job Title | Research Scientist - Hydrologist |
| Job Reference | 72884 |
| Tenure | Indefinite |
| Salary Range | AU$98,735 to AU$106,848 pa (pro-rata for part-time) + up to 15.4% superannuation |
| Location(s) | Canberra preferred, all other locations by negotiation |
| Relocation Assistance | Will be provided to the successful candidate if required |
| Applications are open to | * All Candidates
 |
| Position reports to the | Research Team Leader, Water Resources Assessment |
| Client Focus – Internal | 50% |
| Client Focus – External | 50% |
| Number of Direct Reports | 0 |
| Enquire about this job | Contact Dr Jai Vaze via email at 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 or call 1300 984 220. |

### Role Overview

The role of Research Scientist Staff in CSIRO 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 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.

The research scientist will be part of a strong hydrological science and modelling capability in the Water Security Program of the Land and Water Business Unit. The hydrologist will contribute to innovative research and delivery to high impact external projects on water resources assessment and water accounting under current and future climate. The hydrologist modeller 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 the supervision of more senior researchers, assist in the planning and preparation of research proposals and carry out research investigations, requiring originality, creativity and innovation.
* Conduct original research in hydrological science and hydrological modelling.
* Strong delivery to high impact external projects (like Water and Agriculture assessments in Northern Australia and the Murray-Darling Basin Water and Environment Research Program (WERP)).
* Contribute to inter-disciplinary research in CSIRO and Land and Water Business Unit, particularly in the areas of landscape and river system modelling, integrated water resource management, development impacts and floodplain inundation modelling.
* Communicate research outcomes including scientific publications and reports as well as presentations to scientific and industry forums.
* Work closely with industry clients to ensure delivery of research outcomes and transferring technologies and/or guidelines for adoption.
* Draw on professional expertise, knowledge of other disciplines and research experience, recognise opportunities for innovation and generate new theoretical perspectives by pursuing new ideas/approaches and networking with scientific colleagues across a range of disciplines.
* Maintain confidentiality when dealing with commercially sensitive information.
* 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.

## **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.

## **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 hydrology.
2. Demonstrated expertise in hydrological processes understanding (landscape and river systems).
3. Demonstrated experience in river system modelling and remote sensing application in hydrology.
4. Demonstrated experience in programming and working with large datasets.
5. Strong written and oral communication skills to technical and non-technical audiences.
6. Demonstrated willingness to work in multi-disciplinary teams to deliver both science and impact, and ability to respond to changing requirements.
7. Demonstrated ability to undertake original, creative and innovative research by generating and pursuing novel ideas and solutions to scientific research problems.
8. Growing publication record in hydrology, water resources and related sciences.

## **Desirable**

1. Experience with python and ArcGIS programming.
2. Experience with and understanding of widely used landscape and river system models.
3. Experience working in Australian catchments.

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.
* If the successful candidate is not an Australian Citizen or Permanent Resident, they may be required to undergo additional security clearances, which may include medical examinations and an international standardised test of English language proficiency (i.e. IELTS test).- https://ielts.com.au/

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* 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)