# Position Details

## Research Projects- CSOF4

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| The following information is for applicants | |
| Advertised Job Title | Research Projects Officer - Hydrogeologist/Hydrogeochemist |
| Job Reference | 83341 |
| Tenure | Indefinite  Full-time |
| Salary Range | AU$87,068 to AU$98,504 pa (pro-rata for part-time) + up to 15.4% superannuation |
| Location(s) | Brisbane (Dutton Park) QLD |
| Relocation Assistance | Will be provided to the successful candidate if required |
| Applications are open to | * Australian/New Zealand Citizens and Australian Permanent Residents * All Candidates |
| Position reports to the | Research Leader Sustainable Groundwater Futures Team |
| Client Focus – Internal | 30% |
| Client Focus – External | 70% |
| Number of Direct Reports | 0 |
| Enquire about this job | Contact Rodrigo Rojas via email at Rodrigo.Rojas@csiro.au or phone +61 7 3833 5600 |
| 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 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](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.

The Research Projects Officer - Hydrogeologist/Hydrogeochemist position will be part of the Sustainable Groundwater Futures team based in Brisbane. This team sits within the Groundwater Management Group in the Water Security Research Program in the CSIRO Land and Water Business Unit.

The role suits an early career researcher who will assist with Hydrogeology and Hydrogeochemistry research demands in Water Security and in regional groundwater resource characterization and assessment. This is particularly so in the context of resource developments and changing climatic conditions. This capability integrates skills across geology, hydrogeology, hydrogeochemical evolution at large scale, and hydrochemical and environmental tracer data analysis to address relevant groundwater management challenges.

This position will support deliverables towards Australian Government’s federal initiatives including: national water infrastructure investments that will improve the reliability and security of water for Australia’s regions, and developing safe disposal solutions to our domestic radioactive waste.

### Duties and Key Result Areas

* Under general direction conduct research into the fundamental hydrogeological and hydrogeochemical processes that occur during water-rock interactions; potentially couple this knowledge with groundwater flow and solute transport models to develop frameworks for a multitude of groundwater processes in subsurface
* Assist with research on groundwater recharge, inter-aquifer leakage and groundwater-surface water exchanges via combination of geological and hydrogeological knowledge supported by analysis of hydrochemical and environmental tracer data
* Assist with the development of creative and innovative approaches and ideas to enhance the value of hydrogeochemistry to identify and characterise new water sources, inter-aquifer/aquitard connectivity, and definition of flowpaths in heterogeneous subsurface
* Study hydrogeochemical processes that control the movement of contaminants released by human activities (e.g. mining, disposal of radioactive waste) through integration of geological and geochemical assessments;
* Assist with targeted field investigations to characterize groundwater and surface water systems across different settings in Australia.
* Make significant contributions to the interpretation and communication of research or technological results and may collaborate on drafting presentations to, and/or detailed written reports for, clients and the scientific and/or technology community.
* 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. A PHD/bachelor’s degree or equivalent relevant work experience in a relevant field such as geology, hydrogeology, groundwater hydrology, or other relevant geo-science domain.
2. Experience in characterisation of complex hydrogeological settings using multiple lines of evidence including hydrogeochemical and environmental tracer data analysis, groundwater resources assessment, groundwater hydrology, surface water-groundwater system evaluation.
3. Strong written and oral communication skills coupled with the ability to present results of scientific investigations at national/international conferences and stakeholder meetings.
4. The ability to work effectively as part of a multi-disciplinary, regionally dispersed research group, and carry out independent individual research to achieve organisational goals.
5. Demonstrated ability to assist with original, creative and innovative research by generating and pursuing novel ideas and solutions to scientific research problems.
6. A driver’s licence.

## **Desirable**

1. Familiarity with hydrogeological fieldwork and HSE protocols.
2. Publication history of authorship on scientific papers in peer reviewed journals and/or reports, conference proceedings, grant applications or inventorship on patent applications.

## **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.
* 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/
* To be willing and able to undertake fieldwork as required.

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

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