# Position Description

## Research Projects – CSOF4

The following information is for applicants

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| Advertised Job Title**:** | Research Projects Officer |
| Job Reference: | 59956 |
| Relocation Assistance**:** | Will be provided to the successful candidate if required. |
| Applications Are Open To: | All Candidates |
| Percentage of Client Focus - Internal: | 20% |
| Percentage of Client Focus - External: | 80% |
| Reports to the: | Team leader/Project leader |
| Number of Direct Reports: | 0 |
| Name and Contact Details For Applicant Enquiries | Dr Zongli Xie via email: [zongli.xie@csiro.au](mailto:zongli.xie@csiro.au)  *Please do not email your application directly to Dr Xie. Applications received via this method may not be considered by the selection panel.* |
| Contact Details For Applying | Call 1300 984 220 or email [careers.online@csiro.au](mailto:careers.online@csiro.au). |
| How to Apply: | Please apply online at [jobs.csiro.au](https://jobs.csiro.au/) and enter the requisition number**.** Internal applicants please apply via ‘Jobs Central’ through the ‘People Hub’ icon |

## Role Overview:

Research Projects staff in CSIRO collaborates 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. Research Projects staff may be involved in providing consulting services, science management and/or industry liaison.

The research project staff will mainly participate and assist in experimental work for the industrial project. These roles will focus on contributing to developing advanced wastewater treatment technology, in particular using advance oxidation technology and membrane technology. This is to tackle difficult high salinity industrial wastewater. Some of the project outcome will include the optimisation of the advance oxidation technology, development of new nanocomposite membrane materials and innovation of process integration and pilot plant engineering demonstration.

## Duties and Key Result Areas:

* 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.
* Under general direction participate in planning projects and accept responsibility for the scheduling and completion of major parts of projects, including allocating and directing tasks where appropriate.
* Provide coaching, on-the-job training and instruction to colleagues, on activities pertaining to the immediate work area and responsibilities, allocate activities, direct tasks and manage resources to meet objectives, as required.
* Adapt and/or develop original experimental methods/equipment/software/concepts/ ideas in support of existing and further research, promptly addressing where methods may not be defined and initiative is required in seeking new approaches to meet experimental and/or technological needs.
* 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, often regionally dispersed research team, and business unit to carry out tasks in support of CSIRO’s scientific objectives.
* Adhere to the spirit and practice of CSIRO’s Code of Conduct, Health, Safety and Environment plans and policies, Diversity initiatives and Zero Harm goals.
* Other duties as directed.

## Competencies:

1. **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.**
2. **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.**
3. **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.**
4. **Judgement and Problem Solving:** Investigates underlying issues of complex and ill-defined problems and develops appropriate response by adapting/creating and testing alternative solutions.
5. **Independence: Recognise and makes immediate changes to improve performance (faster, better, lower cost, more efficiently, better quality, improved client satisfaction).**
6. **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.

## Selection Criteria:

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

* Relevant tertiary qualification in a relevant discipline area, such as materials science/engineering, chemical engineering, environmental engineering, chemistry or polymer chemistry.
* Previous experience in experimental research in membrane materials and technology for water treatment.
* Knowledge and /or experience in the membrane fabrication, characterisation and membrane system operation, preferably membrane distillation.
* Knowledge and/or experience in membrane module design and assembly, preferable in scale up flat sheet and/or hollow fibre membrane fabrication.
* The ability to work effectively as part of a multi-disciplinary team, plus the motivation and discipline to carry out tasks autonomously in support of scientific research.

## Desirable Criteria:

* Knowledge/experience in scale up membrane fabrication, module assembly and system integration for water treatment.
* Knowledge in advanced oxidation technology and membrane technology for industry wastewater treatment
* The ability to recognise problems and develops appropriate response to improve performance for the timely delivery of the project

## About CSIRO:

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Find out more about CSIRO [Manufacturing](https://www.csiro.au/en/Research/MF)