# Position Description

## Research Projects – CSOF3

The following information is for applicants

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| Advertised Job Title**:** | Research Project Officer |
| Job Reference: | 59859 |
| 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 | Zongli Xie, [zongli.xie@csiro.au](mailto:zongli.xie@csiro.au) or phone: +61 3 9545 2938 |
| 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.

The research project staff will mainly participate and carry out experimental work in the industrial project focusing on developing advanced wastewater treatment technology in particular using advance oxidation technology and membrane technology 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:

* Assist with experimental work in the lab for the timely delivery of the project, this may include evaluation of advanced oxidation technologies, catalysts and membrane fabrication and characterisation.
* Assist with the sample analysis by using a wide range of analytical techniques.
* To operate and maintain the laboratory equipment in a safe and efficient manner and comply with CSIRO OHSE and information security policies.
* To participate in a team-based approach to problem solving and detailed project planning.
* Respond courteously and efficiently to client requests, maintaining clear communication regarding mutual expectations and monitoring client satisfaction.
* Undertake and complete tasks under technical direction, working with discretion to decide on the timing of operations within the work team’s plan and planning ahead to meet experiment and/or project demands.
* Under technical direction undertake experiments, laboratory analyses or technology development activities (some non-routine) using a range of techniques, often working on a number of parallel and competing tasks.
* Design new processes or apparatus by adapting existing techniques and components to meet special circumstances or undertake modifications to methods requiring some innovation.
* 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 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: Proactively seeks and considers the ideas and opinions of others from within and outside the team to help form decisions, plans or actions.**
2. **Influence and Communication: Puts forward ideas by presenting factual information supported by data, definitions, examples, illustrations or other aids, which will assist in conveying meaning.**
3. **Resource Management/Leadership: Provides instruction and assists other staff to complete allocated tasks and activities.**
4. **Judgement and Problem Solving:** Identifies and considers the implications of a range of available alternatives in order to select the most appropriate response to problems of a familiar or recurring nature.
5. **Independence: Recognise and makes immediate changes to improve performance (faster, better, lower cost, more efficiently, better quality, improved client satisfaction).**
6. **Adaptability:** Willingness to change ideas or perceptions based on new information, contrary evidence or other people's points of view. Prepared to try out different approaches.

## Selection Criteria:

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

1. Relevant tertiary qualification and/or relevant work experience in chemical engineering, environmental engineering, materials science/engineering, or science (chemistry, polymer chemistry).
2. The ability to work hands-on in a laboratory environment.
3. Demonstrated experience working with Microsoft Office products (e.g. Word, PowerPoint, Excel etc).
4. Great communication, problem solving and time management skills.
5. The ability to undertake and complete tasks effectively, working with discretion to decide on the timing of experiment and planning ahead to meet project demands.

## Desirable Criteria:

1. Knowledge in wastewater treatment technologies, in particular membrane science and technology, and/or advanced oxidation technologies field.
2. Knowledge in reactor set-up and process design, preferably in water treatment and membrane system.

## About CSIRO:

We imagine. We collaborate. We innovate. To find out more visit us [online](http://www.csiro.au/)!

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