# Position Details

## Research Projects- CSOF4

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| The following information is for applicants |
| Advertised Job Title | Research Project – Chemistry (Carbon Capture) |
| Job Reference | 96807 |
| Tenure | Specified Term of up to 3 years Full-time |
| Salary Range | AU$93K - AU$105K per annum based on CSOF4 and depending on experience (pro-rata for part-time) plus up to 15.4% superannuation |
| Location(s) | Kensington, WA |
| Relocation Assistance | Will be provided to the successful candidate if required |
| Applications are open to | * Australian/New Zealand Citizens and
* Australian Permanent Residents
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| Position reports to the | Team Leader, Direct Air Capture |
| Client Focus – Internal | 60% |
| Client Focus – External | 40% |
| Number of Direct Reports | 0 |
| Enquire about this job | Colin Wood via email at colin.wood@csiro.au or phone +61 8 6436 8701 |
| 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. |

**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).

**Child Safety**

CSIRO is committed to the safety and wellbeing of all children and young people involved in our activities and programs. View our [Child Safe Policy](https://www.csiro.au/en/about/policies/child-safe-policy).

### 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 role will involve working with the direct air capture team on scaling carbon capture technologies designed for capturing carbon dioxide (CO2) from the atmosphere and point sources of CO2. This includes a significant material synthesis and testing component. The successful candidate will assist with the synthesis of new materials and their detailed characterisation to support scale-up of carbon capture technologies. The ultimate goal of the team is to scale technologies to pilot scale and beyond. The team has a number of strategic and commercial projects looking at deploying CSIRO's CO2 capture technology into the field.

### Duties and Key Result Areas

* Synthesize new materials for carbon capture and work with the project team to design these materials and methodologies to access materials.
* Perform HSE analysis of synthetic methodologies to select the correct practices to carry out the synthesis safely, in doing so adhere to CSIRO HSE policies.
* Under limited supervision, design and perform experiments and laboratory analyses, design new materials and processes by adapting existing techniques and components to meet special circumstances or undertake modifications to methods requiring some innovation.
* Design data recording and entry systems.
* Conduct literature reviews, investigations and inspections in the laboratory including associated analysis possibly involving statistical or graphics software.
* Perform some non-routine analyses or technology development activities using a range of techniques, often working on a number of parallel and competing tasks.
* Independently test possible solutions to resolve identified problems.
* May have responsibility for maintaining laboratory or fieldwork consumables and scheduling and instructing staff in the use of shared equipment.
* Respond courteously and efficiently to client requests, maintaining clear communication regarding mutual expectations and monitoring client satisfaction.
* 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 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 and diversity initiatives.

Other duties as directed.

## **Selection Criteria**

#### Essential

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

1. Relevant trade certificate/diploma/bachelor’s degree or equivalent relevant work experience in chemistry, chemical engineering or material synthesis
2. Demonstrated experience with material synthesis and testing.
3. Fundamental understanding of engineering
4. Requires technical skills in material analysis in order to test the developed materials.
5. Proficient in Microsoft Office applications (i.e. Word, Excel, Outlook, PowerPoint, Project, Teams).

## **Desirable**

1. PhD in chemistry or chemical engineering
2. Experience with experimental instrumentation and controls.
3. Experience handling new materials safely including use of correct PPE.

## **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 is subject to provision of a pre-employment background check and may be subject to other security/medical/character clearance requirements.

* The successful candidate will undertake a pre-employment background check. Please note that individuals 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. Visit [CSIRO Online](http://www.csiro.au/) and [CSIRO Energy](https://www.csiro.au/en/research/technology-space/energy?start=0&count=12) for more information.

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

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