# Position Details

## Research Projects- CSOF3

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| The following information is for applicants |
| Advertised Job Title | Experimental Scientist - Hydrogen and Gasification Technologies |
| Job Reference | 79324 |
| Tenure | Specified Term of 3 years Full-time |
| Salary Range | AU$66kto AU$84k pa (pro-rata for part-time) + up to 15.4% superannuation |
| Location(s) | Brisbane (Pullenvale), QLD |
| Relocation Assistance | Will be provided to the successful candidate if required |
| Applications are open to | Australian or New Zealand Citizens and Australian Permanent Residents currently residing in Australia |
| Position reports to the | Team Leader, Hydrogen and Gasification Technologies |
| Client Focus – Internal | 80% |
| Client Focus – External | 20% |
| Number of Direct Reports | 0 |
| Enquire about this job | David Wong via phone: 07 3327 4145, or email: David.Wong@csiro.au  |
| 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

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 Experimental Scientist – Hydrogen and Gasification Technologies has a practical role in the development and construction of specialist experimental facilities, development of experimental procedures, operation of advanced experimental and analytical facilities, and operation of pilot scale fabrication processes to deliver key components of major energy research projects.

The role is part of a dynamic team of researchers, including research scientists and engineers, specialist trades, engineering, digital, and laboratory facilities experts.

### Duties and Key Result Areas:

* Work with senior research staff to help develop, construct, maintain and operate bench, pilot and large-scale high pressure and temperature experimental facilities.
* Hands-on, practical assistance in maintaining and operating pilot-scale metal / materials fabrication facilities, including tube-work preparation, welding and post-fabrication.
* Day-to-day assistance with materials analysis for quality assurance and control (QA/QC) purposes, including sample preparation and metallography.
* Day-to-day assistance in maintaining and operating general laboratory equipment, such as hydrogen permeation apparatus, gas analysers, furnaces, ovens, sample preparation equipment, analysis of sample materials, gas bottles changeovers, etc.
* Participate in experimental work programs and the documenting of experimental details into laboratory notebooks and existing databases as per CSIRO procedural requirements.
* Prepare biomass, waste materials and other samples for experimental work.
* Manage workflow amongst competing tasks.
* Respond courteously and efficiently to requests for your services, keep clients informed about progress and redirect requests to appropriate staff when required
* Maintain a high standard of housekeeping and cleanliness.
* Have awareness of, and adhere to, relevant occupational health, safety and environment issues.
* 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 that support 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.

## **Required Competencies:**

* **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.
* **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.
* **Resource Management/Leadership:** Provides instruction and assists other staff to complete allocated tasks and activities.
* **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.
* **Independence:** Recognise and makes immediate changes to improve performance (faster, better, lower cost, more efficiently, better quality, improved client satisfaction).
* **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**

#### Essential

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

1. Relevant degree in Science or Engineering with demonstrated experience in a mechanical, instrumentation, materials, physics, chemistry, applied science, chemical process stream, or equivalent.
2. Current driver’s licence.
3. Some knowledge of and experience working with hand- and power tools.
4. Possess some laboratory-based experimental skills, including some expertise in laboratory instrumentation and analytical techniques.
5. Sound knowledge of PC based applications for word processing, spread sheeting and database management.
6. Demonstrated ability to work independently and follow instructions safely.
7. Have a flexible approach to problem solving under general direction.
8. Sound knowledge of, and commitment to, OHS policies.

## **Desirable:**

1. Experience with gases (including hydrogen), chemical and/or industrial energy processes.
2. Experience with constructing, operating and maintaining laboratory instrumentation and relevant software applications (e.g. LabVIEW).
3. Training and/or certification in forklift operation, tube bending and fitting, welding.
4. Demonstrated versatility and willingness to develop into new technical areas.

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.

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

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