# Position Details

## Research Scientist/Engineer- CSOF7

|  |
| --- |
| The following information is for applicants |
| Advertised Job Title | Senior Research Scientist/Project Manager – Low Emission Technology Program |
| Job Reference | 67782 |
| Tenure | Specified Term of 3 years Full-time |
| Salary Range | AU$136,437 to AU$150,956 pa (pro-rata for part-time) + up to 15.4% superannuation |
| Location(s) | Pullenvale, QLD |
| Relocation Assistance | Will be provided to the successful candidate if required |
| Applications are open to | * Australian Citizens and Permanent Residents
* • New Zealand Citizens who usually reside in Australia
* • Australian temporary residents who are currently residing in Australia (visa sponsorship may be provided to eligible candidates)
 |
| Position reports to the | Group Leader, High Efficiency Thermal and Electrochemical Technologies |
| Client Focus – Internal | 40% |
| Client Focus – External | 60% |
| Number of Direct Reports | 0 |
| Enquire about this job | Sarb Giddey via phone: (03) 9545 2734 or David Viano via phone: (07) 3327 4173 |
| 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

The role of Research Scientist Staff in CSIRO is to conduct innovative research leading to scientific achievements that are aligned with CSIRO’s strategies. You may be engaged in scientific activity ranging from fundamental research to the investigation of specific industry or community problems. You will have the opportunity to build and maintain networks, play a lead role in securing project funds, provide scientific leadership and pursue new ideas and approaches that create new concepts.

CSIRO Energy's Low Emission Technology Program is developing hydrogen and ammonia related technologies and collaborating with industrial partners. The aim of current project is to develop an automated membrane manufacturing plant, and to develop two ammonia cracking pilot plants.

The Senior Research Scientist/Project Manager will facilitate successful relationship management of both internal and external stakeholders within this project. This role will ensure the successful achievement of project milestones, and that progress reports are completed and reviewed as per the contractual obligations.

### Duties and Key Result Areas:

* Develop, design and deliver client-focused research projects, or components of large-scale research initiatives.
* Engage externally to ensure that research priorities are aligned with industrial needs.
* Manage the day-to-day conduct of those tasks allocated in the Project Plan.
* Act as a trusted advisor, utilising knowledge of client’s business and understanding of their underlying needs.
* Anticipate industry and/or community needs and market direction through client liaison/networking and identify and adapt quickly to changes.
* Within broad guidelines, use professional expertise, knowledge of other disciplines and research experience/achievement to formulate, develop and complete an approved research program with general direction as to the aims of their activities.
* Communicate research results to clients and the scientific community through oral and written reports, which may include the preparation of documents for patent applications.
* Provide advice to policy makers and inform and transfer knowledge to non-scientific audiences.
* Lead and supervise staff to ensure that experiments are established in accordance with the research design and are completed within the agree timeframes and budget.
* Undertake feasibility studies, demonstrating a considerable degree of originality, creativity and innovation in solving problems and introducing new directions and approaches.
* 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 procedures and policy, Diversity initiatives and Making Safety Personal goals.
* Other duties as directed.

## **Required Competencies:**

* **Teamwork and Collaboration:** Creates and fosters an environment in which there is a high level of cooperation within and between teams. Facilitates positive team relationships to build interactions across Business Units and the organisation.
* **Influence and Communication:** Identifies critical stakeholders and influences them via an influential third party, for example through an established network, to gain support for sometimes contentious proposals/ideas.
* **Resource Management/Leadership:** Provides leadership that fosters an environment that encourages new ideas and provides support for the development of emerging skills. Creates trust by displaying consistency, understanding, integrity and patience. Plans, seeks, allocates and monitors resources to achieve outcomes.
* **Judgement and Problem Solving:** Resolves major conceptual scientific, technical, commercial or management problems, which have a significant impact upon the field of research, professional function, the Business Unit or the Organisation. Situations faced have little or no precedent and require original concepts and approaches.
* **Independence:** Assesses the risk and opportunity of identified strategies, options and actions. Overcomes problems and setbacks in achieving goals. Invariably includes consideration of value-added future impact on bottom line when determining the optimal and efficient use of resources.
* **Adaptability:**Is flexible in response to external change or when faced with external constraints. Identifies and promotes the opportunities arising as a result of change.

## **Selection Criteria**

#### Essential

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

1. Relevant PhD degree or equivalent relevant work experience in Chemical Engineering, Industrial Chemistry or Material Science.
2. Demonstrated practical experience in process flow sheeting and high temperature/pressure systems and industrial processes.
3. A track record of developing and delivering large client-focussed research projects, demonstrating well-developed project leadership and management skills.
4. A track record of publication of research and development outcomes in journals and/or conferences, or equivalent.
5. Demonstrated ability to work effectively in multidisciplinary teams with technical goals.
6. Evidence of the development of an external industry or collaborative professional network (e.g. participation on advisory groups, technical committees, etc.).

## **Desirable:**

1. Demonstrated ability to contribute to design of high-pressure/high temperature research equipment and systems
2. Experience in conducting HAZOP analysis on major laboratory and pilot scale research rigs.
3. Knowledge of hydrogen and ammonia related technologies/systems.

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/

## **About CSIRO:**

We solve the greatest challenges through innovative science and technology. To find out more visit us [online](http://www.csiro.au/)!

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