# Research Projects – CSOF3

Role summary for potential applicants

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| Advertised Job Title**:** | Engineer – Low Emission Technologies  |
| Reference Number**:** | 58571 |
| Classification**:** | CSOF3 |
| Salary Range: | AU $62,654 to AU $79,741 plus up to 15.4% superannuation |
| Location**:** | Pullenvale, QLD |
| Tenure: | Specified Term of 2 years |
| Relocation assistance**:** | Will be provided to the successful candidate if required. |
| Applications are open to: | Australian/New Zealand Citizens and Permanent Residents Only |
| Functional Area**:** | Research Projects |
| % Client Focus - Internal: | 20% |
| % Client Focus - External: | 80% |
| Reports to the: | Team Leader  |
| Number of Direct Reports: | 0 |

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| **Role Overview:** |
| The position of Engineer – Low Emission Technologies will involve research into the production of clean hydrogen fuel from ammonia, fossil fuels and wastes. The appointee will support the design, operation and maintenance of apparatus for fuel conversion reactions, for example, gasification, reforming and decomposition reactions. The appointee’s duties will also include regular maintenance, compliance and housekeeping activities associated with these activities. |

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| **Duties and Key Result Areas:** |
| * Operate a range of experimental apparatus for fuel processing, including gasification reactors, reformers and membrane reactors. This will include field trials away from the CSIRO site
* Contribute to the development of new processes and apparatus, including design, assembly, commissioning and HAZOP analyses
* Undertake maintenance activities, including the rebuilding of apparatus through replacement of gas fittings and refractories, and the removal of coke and tar residues
* Contribute to compliance and housekeeping activities, including continual improvement of HSE procedures and documentation, and the compilation and maintenance of compliance documentation
* Communicate 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 under limited direction in support of scientific research and client-focussed projects
* Provide instruction on activities pertaining to the immediate work area and responsibilities, as required
* Adhere to the spirit and practice of CSIRO’s Values, Health, Safety and Environment plans and policies, Diversity initiatives and Zero Harm goals
* Other duties as directed
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| **Selection Criteria:** |
| *Under CSIRO policy only those who meet all essential criteria can be appointed****Pre-Requisites:***1. **Education/Qualifications:** Minimum qualification of Bachelor degree in Chemical Engineering, Mechanical Engineering or a related field.
2. **Communication:** Ability to communicate in a fluent and courteous manner, both orally and in writing, offering factual information supported by proven data, and providing appropriate feedback when required.
3. **Behaviours:** A history of professional and respectful behaviours and attitudes in a collaborative environment.
4. **Adaptability:** The ability to effectively manage a number of competing priorities simultaneously, and carry out non-routine tasks under limited direction.
5. **Problem Solving:** Proven ability to investigate underlying issues of complex and ill-defined problems and develop appropriate responses by adapting/creating and testing alternative solutions**.**

***Essential Criteria:***1. Demonstrated experience with energy conversion processes
2. Demonstrated experience in the design and commissioning of new apparatus and processes
3. Demonstrated experience of working effectively as part of a multi-disciplinary research team, and to carry out tasks under general direction from colleagues
4. Demonstrated experience with the handling and analysis of flammable and toxic gases and liquids at high temperature and pressure

**Desirable Criteria:**1. Familiarity with technologies and processes for hydrogen production
2. The ability and willingness to contribute novel ideas and approaches in support of scientific and engineering investigations

**CSIRO Values:****As Australia’s Innovation Catalyst, CSIRO has strategic actions underpinned by behaviours aligned to**:* Familiarity with technologies and processes for hydrogen production
* Excellent science
* Inclusion, trust & respect
* Health, safety & environment
* Delivery on commitments.

**In your application and at interview you will need to demonstrate alignment with these behaviours.** |
| **Other Information:** |
| **How to Apply**Please apply for this position online at <https://jobs.csiro.au/> and enter requisition number **58571**. Internal applicants please apply via ‘Jobs Central’ in SAP (click ‘Recruitment’) Your application should comprise **one document** which incorporates the latest version of your CV plus a covering letter and addressing the selection criteria.  **We require that you address the selection criteria in writing providing evidential examples of your experience in terms of desirable and essential selection criteria.** (All of the latter to be uploaded under “Resume/Cover Letter”). **At any stage during the recruitment process, you may be asked to provide additional information (online) relevant to the selection criteria. If so, then responding will enhance your application so please take the time to provide relevant succinct answers. Applicants who do not provide the information when requested may not be considered.** **Please ensure your application does not exceed 2MB.**If you experience difficulties applying online call 1300 984 220 for assistance. Outside Australian business hours please email: csiro-careers@csiro.au. **Contact:** If after reading the selection documentation you require further information please contact: Dr Michael Dolanvia email: Michael.Dolan@csiro.au or phone: 03 9239 4620Please do not email your application directly to Dr Dolan. Applications received via this method will not be considered.**About CSIRO**Australia is founding its future on science and innovation. Its national science agency, the Commonwealth Scientific and Industrial Research Organisation (CSIRO) is a powerhouse of ideas, technologies and skills for building prosperity, growth, health and sustainability. It serves governments, industries, business and communities across the nation. Find out more! [www.csiro.au](http://www.csiro.au). We work flexibly at CSIRO, offering a range of options for how, when and where you work. Talk to us about how this role could be flexible for you. Find out more! [CSIRO Balance](https://www.csiro.au/en/Careers/A-great-place-to-work/Work-life-balance) **CSIRO Energy** aims to enhance the value of Australia’s energy resources while reducing the environmental impacts of the extraction and use of energy. |