# Position Details

## Research Projects – CSOF3 or CSOF4 (commensurate with skills and experience)

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| The following information is for applicants | |
| Advertised Job Title | Iron Ore Processing Research Projects Officer |
| Job Reference | 75568 |
| Tenure | Indefinite |
| Salary Range | CSOF3: AU$64,866 to AU$82,556  CSOF4: AU$85,361 to AU$88,163 (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/New Zealand Citizens and Australian Permanent Residents Only |
| Position reports to the | Research Team Leader |
| Client Focus – Internal | 25% |
| Client Focus – External | 75% |
| Number of Direct Reports | 0 |
| Enquire about this job | Contact Dr Liming Lu via email at liming.lu@csiro.au or phone +61 7 3327 4529 |
| 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](mailto:careers.online@csiro.au) or call 1300 984 220. |

### Role Overview

Research Projects staff in CSIRO 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 carrying out the more practical aspects of the work.

The position will be involved in all aspects of iron ore processing, focusing particularly on agglomeration through the sintering and pelletising processes, as well as metallurgical testing of agglomerated products. The role will be as a member of the broader Carbon Steel Materials Group of the CSIRO Mineral Resources Business Unit. The applicant will be expected to contribute to strategic research and industry-driven projects in-line with the broad group strategy.

The Iron Ore Processing Research Projects Officer will have access to a range of traditional characterisation, comminution, and beneficiation equipment as well as state-of-the-art pilot facilities. For a more detailed overview of facilities, see: [www.csiro.au/ironoretour](http://www.csiro.au/ironoretour)

The position will involve providing mineral processing scientific and commercial outcomes for external and internal stakeholders.

### Duties and Key Result Areas:

* Conducting laboratory and pilot-scale iron ore sintering/pelletising tests and relevant research
* Carrying out standard and non-standard testing and relevant research of carbon steel raw materials
* Ensuring adherence to established sintering/pelletising testing and product evaluation protocols
* Collecting and processing experimental data on an ongoing basis
* Providing technical assistance in maintenance of the CSIRO sintering databases and pilot and laboratory scale facilities
* Developing and maintaining expertise in the area of high temperature processing of iron ores relevant to the group's research activities
* Adhering to safe and efficient work procedures in accordance with CSIRO policies on OHS and Environment, EEO and security

### Duties and Key Result Areas (Additional for CSOF4):

* Supervision of junior staff and providing guidance on experimental/technological techniques and protocols
* Coordinating experiments and laboratory activities during testwork programs
* Setting up maintenance schedule of laboratory facilities and directing the maintenance tasks accordingly
* Assisting with review and updating of the safe work instructions of laboratory facilities and activities

### 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.

### Required Competencies (additional for CSOF4):

* **Resource Management/Leadership:** Allocates activities, directs tasks and manage to meet objectives. Provides coaching, recognises and supports staff achievements and fosters open communication in the team.
* **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.

### Selection Criteria

#### Essential

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

1. Relevant bachelor's or equivalent relevant work experience in Mineral Processing, Metallurgy, or Chemical Engineering.
2. Demonstrated ability to collect, analyse and report data to solve engineering/scientific problems under limited supervision
3. Ability to work in a team environment, utilise resources effectively, meet deadlines and adapt to a dynamic work environment while maintaining work quality and performance.
4. Well-developed oral and written communication skills to comprehend and convey detailed instructions/procedures.
5. Knowledge of the operation and maintenance of laboratory and pilot-scale processing and research equipment.
6. Willingness and ability to travel and work in industrial or mining environments when required.

## **Desirable:**

1. Work experience in iron ore processing or steel industry and knowledge or research experience in high temperature processing.
2. Ability to systematically examine laboratory and pilot-scale equipment operation conditions and diagnose faults.

### Additional Selection Criteria for CSOF4:

1. Experience supervising or coaching junior staff and providing work instruction in a laboratory environment.
2. Experience conducting experiments and laboratory activities during test work programs.

Special 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.

### About CSIRO:

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

* 1. People First
  2. Further Together
  3. Making it Real
  4. Trusted

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

Find out more about CSIRO [Mineral Resources](https://www.csiro.au/en/Research/MRF)