# Position Details

## Research Projects- CSOF3

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| The following information is for applicants |
| Advertised Job Title | Research Technician Coke Making  |
| Job Reference | 96335 |
| Tenure | Specified Term of 24 months Full-time  |
| Salary Range | AU$70,874 to AU$90,202 per annum (pro-rata for part-time) + up to 15.4% superannuation |
| Location(s) | Pullenvale, QLD (Turrbal, Jagera and Yugara Country) |
| Relocation Assistance | Will be provided to the successful candidate if required |
| Applications are open to | * Australian Citizens Only
* Australian/New Zealand Citizens and Australian Permanent Residents
* Australian Temporary Residents with a valid working visa
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| Position reports to the | Team Leader Coke Making |
| Client Focus – Internal | 10% |
| Client Focus – External | 90% |
| Number of Direct Reports | 0 |
| Enquire about this job | Contact Aedita Crouch via email at Aedita.crouch@csiro.au or phone +61 7 33274511 |
| 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.

CSIRO Mineral Resources (CMR) is one of the largest minerals R&D groups in the world, with ~350 employees, and has a proud track record of supporting industrial innovation across the minerals value chain.

We apply our expert knowledge and specialised research to deliver technologies and solutions that solve complex and challenging problems faced by minerals and METS (mining equipment, technology, and services) companies, governments, and other industry stakeholders.

The Carbon Steel Materials Group in the Mineral Resources Business Unit conducts research and consulting services across the iron ore and metallurgical coke value chain. The group’s works closely with industry creating impacts that include growing Australia’s resource base, increasing productivity and reducing environmental footprint in the carbon steel value chain. The group operates pilot and laboratory experiments across areas including sintering & pelletising, Geometallurgy, high temperature chemistry and coke making and testing.

As part of the Coke Making team, the Research Technician will be involved in operating and maintaining unique pilot plant equipment as well as conducting pilot scale experiments aimed at supporting the placement of Australian Metallurgical coals in the international export market.

### Duties and Key Result Areas:

* Provide scientific and technical input into coke making and contributing to the development of coke/coke making capabilities and expertise within the Carbon Steel Materials program.
* Participate in laboratory and pilot scale experimental work in the area of coke making.
* Collecting and processing experimental data on an ongoing basis to a high degree of accuracy.
* Preparing data and reports for internal and external customers.
* Maintaining and upgrading laboratory and pilot scale equipment.
* Developing and maintaining expertise in the area of coke making relevant to Carbon Steel Materials research activities.
* Communicate effectively and respectfully with all staff, clients and suppliers in the interests of good business practice, collaboration and enhancement of CSIRO’s reputation.
* Adapt and/or develop original experimental methods/equipment/software/concepts/ ideas in support of existing and further research.
* 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:** 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 trade certificate/diploma/bachelor’s degree or equivalent relevant work experience in Experience in metallurgy, pyrometallurgy, mineral processing, science, chemical engineering and/or prior employment with a commercial laboratory.
2. Demonstrated hands-on ability to conduct laboratory and pilot scale experiments, to prepare feed materials, to collect and analyse test data, and to interpret and report results to supervisors.
3. Demonstrated ability to conduct analytical test work to a high degree of accuracy in strict adherence to established procedures.
4. Ability to apply your prior knowledge to the area of coke-making. Experience in maintaining laboratory and pilot-scale equipment and diagnosing faults.
5. Self-starter with the 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.
6. Well-developed oral and written communication skills demonstrated by an ability to comprehend and convey detailed instructions/procedures. Intermediate to advanced computing skills.

**Desirable:**

1. Work experience in the minerals industry, particularly carbon steel materials.
2. Knowledge or research experience in coke making.
3. Experience with the instrumentation, analytical techniques, methods and equipment associated with coke making at laboratory and pilot scale.
4. Current National Forklift Ticket.
5. Current Manual Drivers Licence.

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.

* Please note that people 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 Mineral Resources](https://www.csiro.au/en/about/people/business-units/mineral-resources) 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