# Position Details

## Research Scientist/Engineer- CSOF6

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| The following information is for applicants | |
| Advertised Job Title | Research Scientist/ Engineer |
| Job Reference | 79702 |
| Tenure | Indefinite  Full-time |
| Salary Range | AU$117,917 to AU$138,176pa (pro-rata for part-time) + up to 15.4% superannuation |
| Location(s) | Brisbane, Pullenvale |
| Relocation Assistance | Will be provided to the successful candidate if required |
| Applications are open to | * All Candidates |
| Position reports to the | Research Team Leader – Mining Geoscience |
| Client Focus – Internal | 60% |
| Client Focus – External | 40% |
| Number of Direct Reports | 0 |
| Enquire about this job | Contact Marc Elmouttie via email at marc.elmouttie@csiro.au or phone +61 7 3327 4775 |
| 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

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.

We are seeking an applied geophysicist/ mine geophysicist to play a leading role in research and development of novel geophysical methods and applications for the mining and other industries. Typical applications include delineation of orebodies and geological structures, improved understanding of the geotechnical characteristics of host rocks, improved mine design, reduction in mine safety risks, and increasing mine production and profitability.

### Duties and Key Result Areas:

* Undertake world class research in geophysics for mining and other industries
* Develop opportunities and lead industry-funded and internal strategic projects for advancing geophysics-based technologies
* Adapt and/or develop original experimental methods, equipment, software algorithms, concepts and ideas in support of existing and further research
* Carry out field work as part of the team to complete research and to support project requirements
* 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 as part of a multi-disciplinary, often regionally dispersed research team, to carry out tasks under limited direction in support of scientific research.
* Work collaboratively with colleagues within your team, the business unit and across CSIRO, to reach objectives.
* Allocate activities, direct tasks and manage resources to meet objectives.
* Foster open communication, provide coaching and on-the-job training to both support and research colleagues, as required, and provide recognition and acknowledgement for staff achievements.
* Adapt and/or develop original experimental methods/equipment/software/concepts/ ideas in support of existing and further research.
* 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.

## **Required Competencies:**

* **Teamwork and Collaboration:** Cooperates with others to achieve organisational objectives and may share team resources in order to do this. Collaborates with other teams as well as industry colleagues.
* **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:** Sets up and maintains effective and efficient work teams and manages performance and resources, to achieve objectives. Chooses appropriate management strategies and communication styles to maintain high levels of motivation and productivity. Gives feedback for development purposes and provides support and direction for improvement.
* **Judgement and Problem Solving:** Anticipates and manages problems in ambiguous situations. Develops and selects an appropriate course of action and provides for contingencies. Evaluates, interprets and integrates complex bodies of information and draws logical conclusions, synthesises proposals and defends options with reasoned arguments.
* **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:**Demonstrates flexibility in thinking and adapts to, and manages, the increasing rate of organisational change by adjusting strategies, goal and priorities.

## **Selection Criteria**

#### Essential

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

1. Relevant PhD and/or equivalent experience in field of applied geophysics
2. Capacity to apply both theoretical knowledge and practical experience in geophysical data acquisition, analysis and interpretation
3. Expertise and hands-on experience in one or more of the following: georadar, imaging while drilling and microseismic monitoring
4. Demonstrated experience in software development for geophysical data analysis and interpretation
5. Demonstrated experience in completing field work within relevant geophysical surveys and field experience.
6. The ability to work effectively as part of a multi-disciplinary team and carry out tasks autonomously in support of scientific research.
7. Demonstrated ability and willingness to contribute novel ideas and approaches in support of scientific investigations.
8. Demonstrated ability to develop, carry out, write up and present findings on research projects

## **Desirable:**

1. Experience with seismic methods and borehole logging, electromagnetics and electrical resistivity imaging
2. Experience with use of geological modelling software
3. Geophysical hardware development

Special Requirements

Appointment to this role may be subject to conditions including provision of a national police check

* 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/

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

CSIRO is a values-based organisation.  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

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