# Research Management – CSOF8

Role summary for potential applicants

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| Advertised Job Title**:** | Future Science Platform Leader – Deep Earth Imaging FSP |
| Reference Number**:** | 60250 |
| Classification**:** | CSOF8 |
| Salary Range: | An attractive salary package negotiable |
| Location**:** | Kensington, WA |
| Tenure: | Specified Term of 3 years |
| Relocation assistance**:** | Will be provided to the successful candidate if required. |
| Applications are open to: | All Candidates |
| Functional Area**:** | Research Management |
| % Client Focus - Internal: | 60% |
| % Client Focus - External: | 40% |
| Reports to the: | Deputy Director, CSIRO Mineral Resources |
| Number of Direct Reports: | 0 |

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| **Role Overview:** |
| Australia’s future minerals, energy and water resources will come from far greater depths in the Earth and from deep offshore plays, but our ability to find, define and exploit these resources is limited by the deep and complex cover of sediments and weathered material that covers 80% of Australia’s land mass. The science of deep earth imaging will help us more precisely image and understand the significance of our Continent’s subsurface rock properties which in turn will unlock the resource potential of this vast and relatively underexplored area.  To address this challenge, CSIRO has established a Future Science Platform (FSP) in Deep Earth Imaging with 23 new recruits, including 18 postdoctoral appointments. An opportunity to lead this exciting initiative has arisen and we are looking to recruit an experienced R&D leader with a background in resource sciences.  The Deep Earth Imaging project goal is to use smart analytics and algorithms to simulate geological models and properties which enable subtle patterns to be identified and interpreted, thus more precisely imaging subsurface rock properties. New analytical software tools founded in petrophysics (digital-rock) are being developed, these will also draw on the use of predictive technology, machine learning, geological uncertainty analysis and geoscience modelling. The tools will manage real-time data streams and bring together multiple inputs from geology, (hydro)geochemistry and geophysics. The work draws on expertise from multiple domains: geophysical modelling and simulation, geological/geophysical/geochemical integration, and geological uncertainty reduction.  [Future Science Platforms](http://www.csiro.au/en/About/Future-Science-Platforms) are an investment in science that underpins innovation and that has the potential to help reinvent and create new industries for Australia. FSPs will see us grow the capability of a new generation of researchers and allow Australia to attract the best students and experts to work with us on future science. They are strategic investments aimed at developing capacity in areas of identified future importance for Australia. FSPs are both impact and science focused, developing innovative scientific solutions with industry, government and university partners. They support world class, coherent and creative research teams which integrate science and delivery over the long term, looking to the future science needs of CSIRO and our partners with a 5 to 10 year vision. |

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| **Duties and Key Result Areas:** |
| * Provide leadership to CSIRO’s Deep Earth Imaging FSP. * In consultation with stakeholders in the minerals, energy and water research communities, deliver, refine and continually review CSIRO’s research and development strategy relevant to the Deep Earth Imaging FSP. * Advise relevant CSIRO Business Units on the capability required to execute the Deep Earth Imaging strategy and work program. * Communicate effectively and respectfully in the interests of good business practice, collaboration and enhancement of CSIRO’s reputation. * Produce high quality scientific and/or engineering papers suitable for publication in quality journals and for presentation at national and international conferences. * Work effectively as a leader of a multi-disciplinary, regionally dispersed research team, to undertake independent scientific investigations and carry out/delegate associated tasks. * Lead research projects of significant size and provide guidance in the execution of projects undertaken by junior team colleagues, including the negotiation of resource requirements. * Lead, coach and supervise staff to ensure the FSP work program is delivered in accordance with research design, within agreed timelines and budget. * 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:** A PhD in resource sciences ideally with experience; or managerial qualifications combined with significant experience in a relevant discipline area*.* 2. **Behaviours:** Capable of professional and respectful behaviours and attitudes in a collaborative environment. 3. **Communication:** Excellent written and oral communication skills, evidenced by high-level reporting, presentation and negotiation abilities, and the capacity to identify and influence critical stakeholders to gain support for complex proposals/ideas 4. **Leadership:** The ability to choose appropriate management strategies and communication styles to maintain high levels of motivation and productivity, giving feedback for development purposes and providing support for improvement. 5. **Problem Solving:**Proven ability to anticipate problems in ambiguous situations, develop appropriate solutions based on thorough evaluation and interpretation, and defend the conclusions with reasoned arguments 6. **Adaptability:**Demonstrated ability for flexibility in thinking and adapts to and manages ambiguous and complex projects and stakeholders by adapting strategies, goals and priorities   ***Essential Criteria:***   1. Recognition as a leader in the international resource sciences R&D community. 2. Deep knowledge of at least one area of specialisation within the focus areas of the Deep Earth Imaging FSP. 3. Demonstrated skills and experience in successfully initiating and effectively managing large research, development or demonstration projects. 4. The demonstrated ability to lead a multi-disciplinary, regionally dispersed research team. 5. A significant record of science innovation and creativity plus the ability to apply well developed research skills to scientific investigations.   **As Australia’s Innovation Catalyst, CSIRO has strategic actions underpinned by behaviours aligned to**:   * 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.**  ***Special requirements:***  Appointment to this role may be subject to conditions including security/medical/character clearance requirements. Applicants who are not Australian Citizens or Permanent Residents may be required to undergo additional security clearance processes, which may include medical examinations and an international standardised test of English language proficiency (i.e. IELTS test).- <http://www.ielts.org/default.aspx> |

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| **Other Information:** |
| **How to Apply**  Please apply for this position online at <https://jobs.csiro.au/> and enter requisition number **60250**. Internal applicants please apply via ‘Jobs Central’ in SAP (click ‘Recruitment’)  Please load your CV in a PDF (Maximum 2MB). You may also be required to respond to some screening questions.  If you experience difficulties applying online call 1300 984 220 for assistance. Outside Australian business hours please email: [careers.online@csiro.au](mailto:careers.online@csiro.au).  **Referees**: Please provide contact details of two previous supervisor or academic/professional referees in your resume/CV. We will ask your permission before making contact.  **Contact:** If after reading the position details above you require more information please contact:  **Dr Robert Hough**via email: [Robert.Hough@csiro.au](mailto:Robert.Hough@csiro.au) or phone: **+61 8 6436 8763**  Please do not email your application directly to Dr Hough. Applications received via this method may not be considered by the selection panel.  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)  **About CSIRO**  At CSIRO, we do the extraordinary every day. We innovate for tomorrow and help improve today – for our customers, all Australians and the world.  Our innovations contribute billions of dollars to the Australian economy every year. As the largest patent holder in the nation, our vast wealth of intellectual property has led to more than 150 spin-off companies.  With more than 5,000 experts and a burning desire to get things done, we are Australia’s catalyst for innovation.  CSIRO. We imagine. We collaborate. We innovate  Find out more! [www.csiro.au](http://www.csiro.au).  **CSIRO MINERAL RESOURCES**  CSIRO Mineral Resources works with industry to grow Australia’s resource base, increase productivity and drive environmental performance. We also provide critical scientific analysis that underpins a growing national dialogue on how resources impact society and the environment.  Find out more: <http://www.csiro.au/en/Research/MRF>  ***Deep Earth Imaging*** is a collaboration between:  [**CSIRO Mineral Resources**](https://www.csiro.au/en/Research/MRF)Enhancing the value of Australia’s mineral endowment while reducing the environmental impacts of the extraction and use of those resources.  [**CSIRO Energy**](https://www.csiro.au/en/Research/EF)Understanding and unlocking Australia’s onshore and offshore gas and oil resources and enabling the safe, efficient and sustainable development of our resource wealth.  [**CSIRO Land and Water**](https://www.csiro.au/en/Research/LWF)Delivering innovative solutions to the complex challenges that arise from the demands and impacts of human activities on the environment.  [**Data61**](http://www.data61.csiro.au/) Data is the basic currency of our rapidly changing world. *Data61* is Australia’s leading digital research network, here to help create our data-driven future.  Find out more at <https://www.csiro.au/en/Research/MRF/Areas/Exploration-through-cover/Deep-earth-imaging> |