# Position Details

## Research Management – CSOF7

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| The following information is for applicants | |
| Advertised Job Title | Techno-economic Modeller – Energy Resources |
| Job Reference | 68057 |
| Tenure | Specified Term of 3 years  Full-time |
| Salary Range | AU$136,437 to AU$150,956 pa (pro-rata for part-time) + up to 15.4% superannuation |
| Location(s) | Kensington WA preferred (other locations may be considered) |
| Relocation Assistance | Will be provided to the successful candidate if required |
| Applications are open to | * Australian Citizens and Permanent Residents * New Zealand Citizens who usually reside in Australia * Australian temporary residents who are currently residing in Australia (visa sponsorship may be provided to eligible candidates). |
| Position reports to the | Team Leader – Geodata Analytics |
| Client Focus – Internal | 50% |
| Client Focus – External | 50% |
| Number of Direct Reports | 0 |
| Enquire about this job | Andrew Ross via email at [andrew.ross@csiro.au](mailto:andrew.ross@csiro.au) or phone +61 8 6436 8790 |
| 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 world is experiencing an unprecedented change in the way energy is generated and used. Australia is endowed with abundant energy resources which can not only supply both Australia’s but much of the region’s energy needs. The challenge is how can these resources be developed sustainably within a low emissions future? At CSIRO Energy we are charting Australia’s energy future and working on new approaches and technologies that will enable it.

The role of the Techno Economic Modeller within the Energy Resources Program of the CSIRO Energy Business Unit is to work with Research Scientists and Managers on understanding opportunities for research within oil & gas, hydrogen, energy storage and emission reduction domains. This will include identification of emerging trends in these areas and key risks to the adoption of new approaches and technology. These understandings will inform research strategies and investment through the development real options frameworks. The role is to assist researchers to rapidly assess techno economic feasibility of research permitting the development of technology/approaches with the highest potential impact in the above domains. Where time permits the incumbent will work with science teams on externally funded projects where techno economic modelling is required.

### Duties and Key Result Areas:

* Incorporate and promote the inclusion of novel ideas and approaches into projects of all sizes and scale.
* Manage complex Business Unit interactions with a variety of clients, involving the negotiation of multi-party agreements/contracts, developing and promoting the benefit of the proposed initiative, and assisting other staff with strategies to promote their service and/or product, and deliver results to clients.
* Become involve in the client’s decision-making at the earliest opportunity, developing the approach to negotiation, forming relationships with clients, and balancing immediate and long-term benefits, in order to ensure sustainable relationships, repeat business and build opportunities for new business.
* Under broad guidance, fulfil a leading role in planning and allocating resources, often as a member of the Business Unit Management Team.
* Provide high-level strategic advice to the Executive, Directors and/or Research Directors concerning Business Unit and/or organisational issues, influencing organisational and/or Government decisions.
* Have a broad knowledge of CSIRO’s capability, industry needs and government policy, understand the political, social and organisational environment, and align Business Unit and organisational objectives, as required.
* Contribute to cross-functional taskforces, policy bodies and committees and develop strong cooperative relationships with industry.
* Represent the Business Unit and CSIRO at external and internal forums/events, advocating CSIRO’s position with government bodies and securing network support for CSIRO’s preferred position.
* Forecast potential influences on the Business Unit and/or the Organisations’ operating environment and develop and implement preparatory strategies.
* Develop, promote and evaluate the impact of new policies and practices to facilitate organisational change at a Business Unit and/or organisational level.
* Communicate openly, 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, often regionally dispersed research team, and business unit to carry out tasks in support of CSIRO 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:** Creates and fosters an environment in which there is a high level of cooperation within and between teams. Facilitates positive team relationships to build interactions across Business Units and the organisation.
* **Influence and Communication:** Uses complex influencing strategies, for example, assembling strategic coalitions, building behind the scenes support and the tactical use of information to gain support.
* **Resource Management/Leadership:** Provides leadership that fosters an environment that encourages new ideas and provides support for the development of emerging skills. Creates trust by displaying consistency, understanding, integrity and patience. Plans, seeks, allocates and monitors resources to achieve outcomes.
* **Judgement and Problem Solving:** Resolves major conceptual scientific, technical, commercial or management problems, which have a significant impact upon the field of research, professional function, the Business Unit or the Organisation. Situations faced have little or no precedent and require original concepts and approaches.
* **Independence:** Commits significant resources in the face of uncertainty and takes calculated risks to improve performance and achieve challenging goals. Uses personal energy to drive change strategies. Formulates and implements contingency plans to minimise the impact of potential risks. Accepts personal responsibility for the outcomes of decisions/risks taken.
* **Adaptability:**Is flexible in response to external change or when faced with external constraints. Identifies and promotes the opportunities arising as a result of change.

## **Selection Criteria**

#### Essential

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

1. Relevant Bachelor’s degree in economics or equivalent suitable subject.
2. Extensive experience in the use of techno economic risk-based modelling to the energy sector.
3. Broad understanding of oil & gas, hydrogen, energy storage, emission reduction domains.
4. Demonstrated experience in the delivery of real options frameworks.
5. Demonstrated experience in the development of technology commercialisation strategies.
6. An ability to work with or experience within a diverse team of researchers and research managers.
7. Demonstrated report writing ability and well-developed presentation skills.
8. An ability to describe complex problems to a wide and varied audience in an understandable manner.
9. Strong focus on client delivery
10. High levels of expertise in standard desktop software applications.

## **Desirable:**

1. Engineering, or process engineering qualifications;
2. Strong understanding of the value of quantitative and heuristic model development;
3. A track record of publication through scientific journals or industry reports.

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.

* 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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Find out more about CSIRO [Energy](https://www.csiro.au/en/Research/EF)