# Position Details

## Research Scientist/Engineer- CSOF5

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| The following information is for applicants | |
| Advertised Job Title | Research Scientist - Biosecurity Economist |
| Job Reference | 67572 |
| Tenure | Specified Term of 12 months  Full-time |
| Salary Range | AU$98,735 to AU$106,848 pa (pro-rata for part-time) + up to 15.4% superannuation |
| Location(s) | Dutton Park, Brisbane QLD |
| Relocation Assistance | Will be provided to the successful candidate if required |
| Applications are open to | All Candidates |
| Position reports to the | Team Leader |
| Client Focus – Internal | 20% |
| Client Focus – External | 80% |
| Number of Direct Reports | 0 |
| Enquire about this job | Aditi Mankad via email at [aditi.mankad@csiro.au](mailto:aditi.mankad@csiro.au) or phone +61 7 3833 5721 |
| How to apply | Apply online at [https://jobs.csiro.au/](about:blank)  Internal applicants please apply via **Jobs Central**  If you experience difficulties when applying, please email [careers.online@csiro.au](about:blank) 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, collaborate with a range of scientist with different disciplinary expertise, play a lead role in securing project funds, provide scientific leadership and pursue new ideas and approaches that create new concepts.

The role of the Biosecurity Economist is to boost integrative decision-making and productivity capacity of Australian plant and animal industries through economic innovations, with a focus on biosecurity prevention, resilience, response/adaptation behaviours and development of innovative (bio)technologies. The individual will work with Australian and International industry partners to develop novel economic tools, models, and frameworks for managing biological hazards to the ecosystem across different levels of decision making to ensure sustainable agro-economies and bio-economies.

### Duties and Key Result Areas:

* Conceive, design, conduct and deliver cutting edge economics research addressing issues of biosecurity internationally and globally, leading to effective outcomes.
* Using nonmarket valuation techniques applied to invasive species, biodiversity and ecosystem goods and services to inform policy decisions.
* Contributing to large scale, multidisciplinary teams.
* Collaboratively design, contribute to and lead research projects including the negotiation of resource requirements.
* Lead and supervise staff to ensure research is established in accordance with research design including human ethics requirements, within agreed timelines and budget.
* Produce high quality scientific papers suitable for publication in quality journals and for presentation at international conferences.
* Contribute to a dynamic, innovative and effective research team.
* Contribute to the organizational goals of the research group, the Sustainability Pathways Program and CSIRO Land and Water Business Unit.
* Liaise with clients to determine their needs and take personal responsibility for client satisfaction.
* Under limited direction, assist in the planning and preparation of research proposals and carry out research investigations, requiring originality, creativity and innovation.
* Present results in a meaningful format, prepare reports for clients and/or write scientific papers for publication.
* Address problems promptly and in a constructive manner, selecting the most profitable lines of attack upon a problem, preparing detailed design proposals and experimental protocols.
* Undertake in experimental and/or observational research activities, often requiring the supervision and/or training of others to ensure experiments are established in accordance with research design, or as required.
* Draw on professional expertise, knowledge of other disciplines and research experience, recognise opportunities for innovation and generate new theoretical perspectives by pursuing new ideas/approaches and networking with scientific colleagues across a range of disciplines.
* 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’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:** 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:** Uses knowledge of other party's priorities and adapts presentations or discussions to appeal to the interests and level of the audience. Anticipates and prepares for others reactions.
* **Resource Management/Leadership:** Allocates activities, directs tasks and manages resources to meet objectives. Provides coaching and on the job training, recognises and supports staff achievements and fosters open communication in the team.
* **Judgement and Problem Solving:** Investigates underlying issues of complex and ill-defined problems and develops appropriate response by adapting/creating and testing alternative solutions.
* **Independence:** Plans, sets and works to meet challenging standards and goals for self and/or others. Recognises where endeavours will make the most impact or difference, decides on desired outcome and sets realistic goals to reach this target.
* **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. A PhD in Agricultural Economics with a focus on trade and invasive species, biosecurity and the valuation of ecosystem goods and services.
2. Minimum of 5 years working experience in biosecurity economics.
3. Record of collection and analysis of primary data for agricultural and environmental economic analysis using specially designed structured questionnaires.
4. Experience in applying and integrating economic and ecological approaches to analyse invasive species problems within multidisciplinary teams.
5. Record of effective scientific communications including refereed journal papers, technical and policy publications and communications designed for stakeholders.
6. International experience in empirical policy relevant studies in developing countries.

## **Desirable:**

1. Previous experience in the acquisition of external funding.
2. Established networks with the academic and research community, public and other organisations in the field.
3. Evidence of international collaboration.

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.
* 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 [Land and Water](about:blank)