



## **Quantitative Biosecurity Scientist**

- **Boost global export of Australian grown food through tools and technologies**
- **Key research role in CSIRO's Managing Invasive Species and Diseases Program**
- **Apply your quantitative analysis and modelling skills in biosecurity research**

This position is an exciting opportunity for an early career, highly motivated research scientist with skills in quantitative analysis and modelling as it relates to biosecurity. You will join the Program *Managing Invasive Species and Diseases* of the Health and Biosecurity Business Unit of CSIRO. This multi-disciplinary program undertakes research to reduce the actual and potential economic, environmental and social impacts of national priority pests, weeds and diseases affecting agriculture and the environment. The position will also play an integral role in CSIRO's newly formed *Trusted Agrifood Exports Mission* which aims to boost global export earnings of Australian grown food through tools and technologies that verify our quality, safety and clean and green credentials.

### **Your duties will include:**

- Devise strategy and assume overall scientific responsibility for research and interpreting results to deliver on project-related outputs.
- Initiate and undertake through to adoption analyses and modelling to help the agricultural sector develop and maintain market access, and to support biosecurity incursion responses. This will include guiding empirical studies to inform and test modelling activities.
- Maintain a focus on adoption of R&D and incorporate novel approaches to scientific study by adapting and/or developing original concepts and ideas into existing and future research.
- Under the guidance of senior colleagues, develop and contribute to new, multi-disciplinary research projects, including negotiation and securing of external funding requirements.
- Act as a trusted advisor for industry. Anticipate industry and/or community needs and market direction through client liaison/networking; identifying changes quickly and adapting as needed.
- Develop active collaborations with scientists from other disciplines that are working within the Trusted Agrifood Exports Mission.
- Produce scientific papers suitable for publication in high quality international journals and for presentation at national and international conferences, and present or write reports for, clients and the scientific and/or technology community.

**Location:** Black Mountain, ACT or Dutton Park, Brisbane

**Salary:** AU\$98k - AU\$106k plus up to 15.4% superannuation

**Tenure:** Specified term of 3 years

**Reference:** 72904

### **To be considered you will need:**

1. A doctorate and/or equivalent research experience in a relevant discipline, such as quantitative ecology, modelling, ecological entomology or plant pathology, integrated pest or disease management, invasion biology or biosecurity.
2. Relevant postdoctoral research experience including demonstrated theoretical, conceptual and practical knowledge relevant to biosecurity.
3. Strong quantitative analytical and statistical skills relevant to surveillance design, phenological modelling, population and dispersal modelling, combined with a strong empirical experience needed to help guide supporting experimental research.
4. High level skills in scientific computing languages and software (such as R or Python) relevant to the domain questions and data.
5. A record of science and/or technological innovation and creativity, including the ability and willingness to incorporate novel ideas and lateral thinking into scientific investigations required to develop appropriate solutions to applied challenges.
6. Demonstrated ability to lead projects or components of large multi-disciplinary projects, and carry out independent individual research, to achieve project goals.
7. Excellent communication skills including a demonstrated ability to publish impactful research and to write reports and make scientific presentations to audiences with scientific and non-scientific backgrounds.
8. An ability to, under guidance, identify and secure new strategically-aligned R&D opportunities through engagement with stakeholders and collaborators.

For full details about this role please view the [Position Description](#)

### **Eligibility**

The successful applicant will be required to obtain and provide a National Police Check or equivalent.

### **Flexible Working Arrangements**

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. [Balance](#)

### **Diversity and Inclusion**

We are working hard to recruit diverse people and ensure that all our people feel supported to do their best work and feel empowered to let their ideas flourish. [Diversity and Inclusion Strategy](#)

We are committed to the safety and wellbeing of all children and young people.

### **About CSIRO**

At [CSIRO](#), Australia's national science agency, we solve the greatest challenges through innovative science and technology.

Join us and start creating tomorrow today!

### **How to Apply**

Please apply on-line and provide a cover letter and CV that best demonstrate your motivation and ability to meet the requirements of this role.

### **Applications Close**

28 April 2021, 11:00 pm AEST/AEDT