



Research Scientist/Engineer – CSOF6

Role summary for potential applicants

Advertised Job Title:	Agricultural Economist
Reference Number:	37762
Classification:	CSOF6
Salary Range:	AU \$106,285 to AU \$124,546 plus up to 15.4% superannuation
Location:	St. Lucia, QLD
Tenure:	Indefinite/Ongoing
Relocation assistance:	Will be provided to the successful candidate if required.
Applications are open to:	All Candidates
Functional Area:	Research Scientist / Engineer
% Client Focus - Internal:	15%
% Client Focus - External:	85%
Reports to the:	Team Leader - Food Systems and Global Change
Number of Direct Reports:	0

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. You may be involved in leading research projects or undertaking work that has impact on the development of scientific or technical knowledge.

This position will provide leadership in the area of global integrated assessment modelling and the development of future scenarios of how to feed the world sustainably and within planetary boundaries. It is expected that this position will serve as a bridge between the work of the Food and Nutrition Security group and our numerous external partners working in this area (IIASA, PIK, IFPRI, IPCC, Lancet Commissions and others). The position will also engage and further develop the work on sustainable diets and health, including the estimation of social impacts of different agricultural futures. The incumbent will also collaborate with other colleagues working at more disaggregated scales in our multi-scale assessment work.

We work flexibly at CSIRO, offering a range of options for how, when and where you work.

Find out more here! <https://www.csiro.au/en/Careers/A-great-place-to-work/Work-life-balance>

Duties and Key Result Areas:

- Lead the analytical work on global integrated assessment of agricultural futures.
- Maintain effective partnerships and a vibrant research agenda with the key external partners in this field.
- Develop a research agenda for assessing the impacts of sustainable diets, including the assessment of broad socio-economic impacts (health, incomes, employment, etc) of alternative scenarios.
- Engage in multi-sectoral assessments or international initiatives (IPCC, etc) as needed.
- Incorporate novel approaches to scientific investigations by adapting and/or developing original concepts and ideas for new, existing and further research.
- 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 part of a multi-disciplinary, often regionally dispersed research team, to undertake independent scientific investigations and carry out associated tasks under the guidance of more senior Research Scientists/Engineers.
- Under the guidance of Senior Research Scientists/ Engineers, work collaboratively and honestly with internal and external colleagues, clients and partners to help define and satisfy objectives for small to medium research projects.
- Lead research projects, including the negotiation of resource requirements.
- Provide coaching and on-the-job training to technical staff and students to ensure experiments are established in accordance with research design.
- 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.

Selection Criteria:

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

Pre-Requisites:

1. **Education/Qualifications:** A doctorate and or equivalent research experience in a relevant discipline area, such as agricultural economics or impact assessment.
2. **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 contentious proposals/ideas.
3. **Publications:** A significant record of quality publications as primary author in high impact, peer reviewed journals.
4. **Behaviours:** A history of professional and respectful behaviours and attitudes in a collaborative environment.

Essential Criteria:

1. Extensive knowledge of global economic modelling methods and tools.
2. Highly developed GAMS and/or R programming skills.
3. 3-5 years' experience involved in the development of scenarios of global food and nutrition security.
4. The ability to work effectively as a member or leader of a multi-disciplinary, regionally dispersed research team, and carry out independent individual research, to achieve organisational goals.
5. A significant record of science innovation and creativity plus the ability to apply well developed research skills to scientific investigations.

Desirable Criteria:

1. Knowledge of climate change impacts, adaptation and mitigation in agriculture.
2. Extensive connections to the global agricultural modelling community.

CSIRO is a values based organisation. You will need to demonstrate behaviours aligned to our values of:

- Integrity of Excellent Science
- Trust & Respect
- Creative Spirit
- Delivering on Commitments
- Health, Safety & Sustainability

Other 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>

Other Information:**How to Apply**

Please apply for this position online at www.csiro.au/careers. You may be asked to provide additional information (online) relevant to the selection criteria. If so, then responding will enhance your application so please take the time to provide relevant succinct answers. Applicants who do not provide the information when requested may not be considered.

If you experience difficulties applying online call 1300 984 220 and someone will be able to assist you. Outside business hours please email: csiro-careers@csiro.au.

Referees: If you do not already have the names and contact details of two previous supervisors or academic/ professional referees included in your resume/CV please add these before uploading your CV.

Contact: If after reading the selection documentation you require further information please contact:

Dr Mario Herrero via email: Mario.Herrero@csiro.au or phone: +61 7 3214 2538

Please do not email your application directly to Dr Herrero. Applications received via this method will not be considered.

About CSIRO

Australia is founding its future on science and innovation. Its national science agency, the Commonwealth Scientific and Industrial Research Organisation (CSIRO) is a powerhouse of ideas,

technologies and skills for building prosperity, growth, health and sustainability. It serves governments, industries, business and communities across the nation.

Find out more! www.csiro.au.

CSIRO Agriculture and Food is helping Australian farmers and industry improve productivity and sustainability across the agriculture sector. We work directly with farmers and related industries to help us understand the challenges agricultural businesses face, develop a shared vision of how science can make the greatest difference and ultimately deliver practicable solutions.

For more information on CSIRO Agriculture and Food, visit <http://www.csiro.au/en/Research/AF>