# Position Details

## Research Scientist/Engineer- CSOF5

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| The following information is for applicants | |
| Advertised Job Title | Animal Health Modeller |
| Job Reference | 66911 |
| Tenure | Specified Term of 2 years |
| Salary Range | AU$98,735 to AU$106,848 pa (pro-rata for part-time) + up to 15.4% superannuation |
| Location(s) | St Lucia |
| 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 | 0% |
| Client Focus – External | 100% |
| Number of Direct Reports | 0 |
| Enquire about this job | Contact Dianne Mayberry via email at dianne.mayberry@csiro.au or phone +61 419 478 033  Or  Mario Herrero via email at [mario.herrero@csiro.au](mailto:mario.herrero@csiro.au) or phone +61 477 764 244 |
| 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 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, provide scientific leadership and pursue new ideas and approaches that create new concepts.

We are seeking an epidemiologist, modeller or data expert with expertise in animal health to join CSIRO’s [Food Systems and Global Change Group](https://research.csiro.au/foodglobalsecurity/) as part of the [Global Burden of Animal Diseases (GBAD)](https://animalhealthmetrics.org/) project. Based in Brisbane, Australia, we are a multi-disciplinary team of systems specialists that partner to deliver agricultural outcomes for improved global food and nutrition security. Our work is framed by the United Nations Sustainable Development Goals, and we collaborate with the world leaders in this space to build more efficient and effective food systems through improved agricultural productivity, diversification and resilience.

The GBAD project aims to quantify the livelihood, environment and societal impacts of animal disease and has initially received funding for a two-year pilot period. CSIRO leads a work package on production system impacts in collaboration with the Food and Agriculture Organisation of the United Nations (FAO) and the International Livestock Research Institute (ILRI). The Animal Health Modeller will evaluate production impacts of animal health problems (disease and management related) at the household level, scaling up to the regional level and linking to global analyses. They will work closely with a global team of livestock and value chain specialists to achieve the project goals. The initial focus of the work package is dairy, pig and poultry production systems in East Africa.

### Duties and Key Result Areas:

* Work collaboratively as part of a multi-disciplinary and geographically dispersed research team to meet the GBAD project objectives
* Review existing literature and databases to understand current livestock production systems and issues that limit productivity.
* Work collaboratively with country partners to fill knowledge gaps
* Collate country-level data on animal populations and production systems for quantifying the burden of animal diseases.
* Develop a bottom-up classification of livestock production systems globally, and in specific countries.
* Develop a methodology to quantify localised impacts of livestock disease, and a framework to link this to regional and global analyses
* Communicate technical results to both specialist and general audiences
* Contribute to project reports and publications, including as lead author
* 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.
* 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 and/or equivalent research experience in animal health or epidemiology.
2. Experience handling diverse sources of livestock data at country, regional or global level.
3. Experience using mathematical models
4. The ability to work effectively as part of a multi-disciplinary research team
5. Strong written and oral communication skills, including the ability to communicate technical information to both specialist and general audiences

## **Desirable:**

1. Research experience in developing countries, particularly eastern Africa
2. Experience cleaning, maintaining and interrogating large datasets; Competent use of R and other programming languages or statistical software.
3. Experience with GIS software

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.

* International travel may be required as part of this role.
* 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/

## **About CSIRO:**

We solve the greatest challenges through innovative science and technology. To find out more visit us [online](http://www.csiro.au/)!

Find out more about CSIRO [Agriculture and Food](https://www.csiro.au/en/Research/AF)