

## Position Details

Role summary for potential applicants

<b>Advertised Job Title:</b>	Irrigation Research Scientist
<b>Reference Number:</b>	NSW12/04323
<b>Classification:</b>	CSOF 5-6
<b>Salary Range:</b>	\$89-\$120K plus up to 15.4% superannuation
<b>Location:</b>	Griffith, NSW, Australia
<b>Tenure:</b>	Indefinite
<b>Relocation Assistance:</b>	May be provided to the successful candidate
<b>Residency Status:</b>	All Candidates

### Role Overview:

The Farm scale Hydrology research team in CSIRO Land water delivers science and expertise that helps the nation respond to challenges and opportunities in the agricultural water use sector. The team delivers both national and international research outcomes that improve the profitability and sustainability of irrigation systems and their associated environments within the Sustainable Agriculture Flagship.

The Griffith Irrigation Research Laboratory has a long-established reputation in irrigation research. The research is focused on improving the productivity, profitability and sustainability of irrigated regions. This includes:

- increased irrigation water use productivity through improved irrigation systems and irrigation management tools
- improved drainage water management through quantity and quality control measures
- improved soils through innovative management of organic matter including biochars and wastewaters

We seek to appoint an experienced irrigation systems scientist that has knowledge of hydrology, soils and agronomy associated with farm scale irrigation systems. Specifically, they will have a track record in farm scale irrigation systems research and be willing to work within a dynamic multi-disciplinary team to deliver science outcomes to the national and international irrigation sector. They will provide innovative and outcome oriented scientific research within the Farm scale Hydrology research team, enabling it to influence and meet CSIRO's strategic priorities on irrigation research.

**Duties and Key Result Areas:**

- Provide innovative and outcome-oriented scientific research within the Farm scale irrigation hydrology team, enabling it to influence and meet CSIRO's strategic priorities via a cohesive portfolio of research.
- Enhance CSIRO's culture of scientific publication in irrigation research.
- Foster the careers of CSIRO's scientists and engineers through direct and indirect management of science and people.
- Initiate, facilitate and encourage linkages and collaboration with other parts of CSIRO and external organisations such as industry, research and government, nationally and internationally.
- Acquire external research funds for projects aligned with the strategy of CSIRO's Research Flagships.

**Selection Criteria:**

*Please note: Under CSIRO policy only applicants who meet all the essential criteria can be appointed*

***Pre-Requisite***

***PhD in irrigation systems science or related research fields (Soil and Water Engineering, Irrigation Engineering, Agricultural Engineering, Agricultural or Environmental Science)***

***Essential Criteria:***

1. Demonstrated expertise in irrigation systems science research (e.g. irrigation water management at farm and district scales, salinity and water logging at farm and district scales, on and off site environmental footprint impacts associated with irrigation).
2. Demonstrated research experience with a range of field scale irrigation methods, systems and management for water use efficiency and productivity improvements.
3. Ability to liaise closely with stakeholders and clients, to develop trust with key decision-makers in research funding and capacity building in irrigation science or engineering. A strong record of gaining external competitive funding for research and having research adopted by end users in the irrigation sector.
4. Ability to work effectively in teams with scientists and highly trained technicians, and also independently under limited direction on one or more projects.
5. Willingness to live, work and travel in irrigation areas within Australia and overseas.

***Desirable Criteria:***

1. Experience in remote sensing tools and GIS applied to irrigation management.
2. Experience with irrigation and drainage systems in developing countries.

**CSIRO is a values based organisation. In your application and at interview 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 Information:**

**How to Apply:**

Please apply for this position online at [www.csiro.au/careers](http://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 301 509 and someone will be able to assist you. Outside business hours please email: [csiro-careers@csiro.au](mailto:csiro-careers@csiro.au)

**IMPORTANT:** Please upload your resume/curriculum vitae and other documents in MS Word only so they can be converted to PDF before being sent to the Selection Panel. Please note only two documents can be attached to your application.

**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 John Hornbuckle by email at [john.hornbuckle@csiro.au](mailto:john.hornbuckle@csiro.au) or by phone at 02 69601583.

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

**About CSIRO:** Australia is founding its future on science and innovation. Its national science agency, 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](http://www.csiro.au).

**CSIRO Land and Water** conducts research to understand natural and engineered land and water systems and to predict how they respond to change. Find out more at: <http://www.csiro.au/Organisation-Structure/Divisions/Land-and-Water.aspx>