

Senior Hydrogeologist/Engineer



- **Develop and lead interdisciplinary research**
- **Supervise and mentor junior research staff**
- **Publish research outcomes in high quality journals**

The position:

An outstanding opportunity exists for a Senior Hydrogeologist/Engineer to join the Water Reuse and Environmental Process Engineering Program at CSIRO Land and Water in Adelaide. The successful candidate will work in partnership with a broader team to provide hydrogeological oversight of research involving water recycling via aquifers. The role will involve liaison with clients, formulating, and in conjunction with other staff, undertaking innovative research which meets the requirement to publish in journals.

In the first instance you will take prime responsibility for delivery of a project on developing a capability to measure, predict and manage changes in near-well hydraulic conductivity in aquifers as a result of physical, biological and geochemical processes during injection, storage and recovery. This will involve reviewing and using existing methods and models used in a range of industries and developing new methods and models where required to improve the forecasting of required levels of water treatment in relation to aquifer characteristics. You will have an increasing role in broader research leadership related to water reuse studies and needs across Australia and internationally. The role will facilitate the supervision of a junior research hydrogeologist and will support staff of other disciplines in hydrogeological aspects of water reuse management.

Specifically you will:

- develop and lead inter-disciplinary research;
- develop lab and field based methods to assess processes and calibrate models;
- develop and test predictive models;
- publish methods and results in literature facilitating CSIRO leadership;
- work with industry to implement new research developments;
- oversee & support hydrogeological research in Managed aquifer recharge;
- contribute to Flagship and Division in research planning and execution.

Location: Urrbrae (Adelaide) South Australia

Salary: AUD99K – AUD116K plus up to 15.4% superannuation (pension fund)

Tenure: Indefinite / Ongoing

Ref No.: SA01026

To be considered you will hold a PhD and have relevant research experience in hydrogeology, environmental engineering, physics, microbiology, geochemistry, porous media process modelling or equivalent.

You will also have:

- extensive demonstrated experience in groundwater research and broader experience in water reuse science;
- sound scientific publication record with evidence of innovation and creativity;
- evidence of effective leadership and participation and nurture of others in multi-disciplinary teams;
- strong communication and influencing skills.

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.

CSIRO prefers all applications to be lodged via our Online Careers Portal – <http://www.csiro.au/careers>. Choose “Positions Vacant” and search for Reference Number SA01026.

Closing date: Sunday 9 October, 2011 (11:30pm Adelaide time)