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## Postdoctoral Fellow – Vadose zone hydrology : Adelaide, SA 5000, Australia

**Employer:** [The Commonwealth Scientific and Industrial Research Organisation \(CSIRO\)](#)

**Website:** <http://www.csiro.au>

**Location:** [Adelaide, SA 5000, Australia](#)

**Type:** [Fellowship](#)

**Posted:** August 21, 2011

**Expires:** September 11, 2011

**Jobs by tag(s):** [vadose zone hydrology](#) [environmental tracers](#) [reactive transport modeling](#)

**Requisition number:** SA00839

### Science jobs from The Commonwealth Scientific and Industrial Research Organisation (CSIRO): job description

- Influence the future of water resource management in Australia
- Develop a research-intensive career and become a research leader of the future
- Join a world-class interdisciplinary team in water resources research

#### **The Position:**

CSIRO's Groundwater Hydrology Program requires a Postdoctoral Fellow with a strong interest in scientific research, quantitative analysis of vadose zone hydrological processes and environmental tracers, and reactive transport modelling to be part of a team delivering critical scientific research to support decision making for government and the water industry.

#### **Specifically you will:**

- Conduct research under the guidance of senior scientists to advance scientific understanding of deep vadose zone systems under arid and semiarid climate.
- Develop innovative techniques for conceptualizing and quantifying vadose zone processes across a range of scales using multiple reactive and nonreactive environmental tracers combined with reactive transport modeling.
- Carry out interdisciplinary analysis to better constrain palaeohydrological records for deep vadose zones, and to advance knowledge of key hydrological processes governing groundwater recharge under different ecohydrological conditions.

**Location:** Adelaide, South Australia

**Salary:** \$75K – \$82K plus up to 15.4% superannuation.

**Tenure:** 3 year term

**Reference No:** SA00839

**To be successful you will need:**

- A PhD in science or engineering relevant to vadose zone hydrology, environmental tracers or reactive transport modeling, confirmed within the last 3 years or near completion.
- Demonstrated strong skills in either field based or numerical computation for vadose zone hydrological applications or reactive transport modeling.
- A significant contribution to a particular research field through PhD or previous research and a good publication track record.
- Strong written and oral communication skills, including an ability to publish results of scientific research, write reports and proposals, present scientific research to audiences with scientific and non-scientific background.

**About CSIRO:**

The Commonwealth Scientific and Industrial Research Organisation (CSIRO) is one of the largest and most diverse scientific organisations in the world. By igniting the creative spirit of our people, we deliver great science and innovative solutions that benefit industry, society and the environment.

**About the Business Unit:**

CSIRO Land and Water undertakes research focusing on the measurement and prediction of the availability and condition of Australia's land and water resources. The position is based in the Groundwater Hydrology program. The research in the group is closely aligned with Australia's strategic direction in groundwater research, including assessing the sustainable yields of groundwater systems.

For more information please visit: <http://www.csiro.au/org/clw.html>

**Find out more!** For further information please visit our website at CSIRO Careers

<http://www.csiro.au/people/Careers.html>, choose "Positions Vacant", Job Search and insert Reference Number SA00839 where indicated.

**Applications close:** 11 September 2011

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