



## **Job Details**

<b>Reference:</b>	<b>EL1 IT Water (several positions)</b>
<b>Position Title:</b>	<b>Senior Applications Developer</b>
<b>Classification:</b>	<b>Executive Level 1 (Senior Information Technology Officer Grade C)</b>
<b>Salary range:</b>	<b>\$80,569 - \$87,000 per annum</b>
<b>Location:</b>	<b>Melbourne or Canberra</b> This position may be based in either Melbourne or Canberra, depending on the requirements of the individual and the Bureau.
<b>Division:</b>	<b>Water</b>
<b>Branch:</b>	<b>Water Data Management or IT Planning and Development</b>
<b>Status:</b>	<b>Ongoing</b>
<b>Applicants:</b>	<b>Australian citizenship – see <a href="#">Essential Applicant Information</a></b>
<b>Applications close:</b>	<b>Thursday 7 August 2008</b>

## **Overview**

The Bureau of Meteorology has responsibility for managing Australia's water information. To underpin our new role, we are developing the Australian Water Resources Information System (AWRIS) with the support of the National Water Commission (NWC). This world-leading water information system requires a new approach to information system development involving researching, developing and applying state of the art knowledge and technologies.

The Senior Applications Developer will influence the direction of our data management, systems analysis, development and technical support for AWRIS and associated spatial and temporal databases. We require experienced ICT professionals with a strong client focus who thrive in a challenging, multi-disciplinary technical environment.

Funded under the Federal Government's Water for the Future plan over ten years, the Bureau is seeking a range of specialist ICT staff to undertake development of AWRIS to provide a comprehensive and current account of Australia's water resources. For more information about our challenge please visit [www.bom.gov.au/water](http://www.bom.gov.au/water)

## Duty Statement

Under limited direction,

1. In collaboration with other areas, undertake the planning, development and implementation of advanced computer based systems and technologies to meet Water Division operational requirements and provide high-level data integration, database and applications development support as part of the Water Data or AWRIS Project teams.
2. Individually, or as a team leader, make a major contribution to the evaluation, design, development, testing and implementation of AWRIS and associated databases, to increase the effectiveness and efficiency of the Water Division's computer systems supporting the aggregation, integration, quality control, storage, management, reporting, analysis and delivery of water data and information.
3. Maintain an up-to-date knowledge of techniques and developments associated with information technology and database systems, and in particular, their potential application to Bureau operations.
4. Carry out other duties within the Bureau's Water Division, as required.
5. Report project progress, issues and risks to Water Division management on a regular basis.
6. Be aware of, and apply as necessary, the principles and practices of the various elements of the Bureau's Social Justice Strategy.

**Duties representing highest function:** 1-2

**Immediate Supervisor:** EL2 (Senior Information Technology Officer Grade B)

## Job Profile

The Water Division is a new division of the Bureau of Meteorology established to fulfil the Bureau's functions in water information under the *Water for the Future* plan and to integrate these with the Bureau's existing hydrological services functions.

The Bureau's roles and responsibilities are provided under the Water Act (2007). The 12-part Water Act includes a Part (7) on water information, setting out a range of new powers for the Director of Meteorology. The powers are related to the collection of water information and national standards for water information collection, storage and transmission. The legislation also sets out some obligations for the Bureau, including the requirements to perform periodic water resource assessment, manage a national water account, and to make water information freely available to the public.

Currently in Australia it is not possible to monitor the status of Australia's water resources or make reliable forecasts of future water availability because of the manner in which water information is managed across more than 100 different water data collecting agencies nationwide. This situation impedes effective water resources management and policy and decision making on infrastructure investments. An Australian Water Resources Information System (AWRIS) will deliver robust and reliable, nationwide information on water availability, water quality and water usage. It will be the authoritative repository for water data and reporting in Australia.

AWRIS is conceived as having three core components: an Enabling Framework (or "brain") for harvesting and organising water data within a geospatial context; an external face providing Public Web Access to water data; and an internal face providing the analysis tools and production engine for key regular national water reports, such as Australian Water Resource assessments (AWRs) and National Water Accounts (NWAs).

The Senior Applications Developer will provide data management, systems analysis, applications development and technical support for the AWRIS and associated spatial and temporal databases.

## Selection Criteria

*Selection will be made on the basis of assessment against specified selection criteria. It is in the interests of applicants to note the selection criteria and frame their applications accordingly.*

*To assist you prepare your application, please read the information at [General Information for Applicants](#) and complete the *Bureau of Meteorology Application Cover Form*.*

1. A proven record of professional competence in applications development or software engineering, and substantial hands-on experience in the design and development of enterprise databases and data-intensive web-based information systems. Experience with RDBMS products such as Oracle, Postgres and MySQL is highly desirable.
2. Demonstrated experience in enterprise-grade programming languages, e.g. Java, or languages for data encoding or manipulation, e.g. XML or Perl, and application development methodologies, including agile methods, applied in UNIX/Linux computing environments.
3. Working knowledge of best practice in the application of database and web service technologies. Experience with management of scientific, spatial or time series data, GIS, specification of requirements using formal methodologies, e.g. UML, or Service-Oriented Architectures will be highly regarded.
4. Demonstrated liaison and communication (oral and written) skills in particular in regard to the compilation of technical documentation.
5. Demonstrated strong interpersonal skills such as persuasion, influencing and negotiation and the ability to develop and maintain productive relationships within a team environment. Demonstrated personal qualities such as tact, diplomacy and integrity.
6. Knowledge of the Bureau's Social Justice Strategy and a commitment to ensure its implementation in the work place.

### Qualifications

A qualification in Information Technology which is relevant to the duties of the position is highly desirable.

## Contact

If you would like to know more about the Bureau of Meteorology visit <http://www.bom.gov.au/>

Please read the selection documentation and if you have any queries specific to this position please contact Mr Tony Boston on (02) 6232 3503.

## **Applications**

**All applicants are advised to read the [General Information for Applicants](#) available on this website before submitting their application.**

**Applications** should include a completed Bureau of Meteorology Application Cover Form, Résumé or CV, full details of qualifications and experience, and a Statement addressing the Selection Criteria.

Applications, which will be treated in confidence, should be forwarded, no later than COB Thursday 7 August 2008

**Applications can be lodged online at <http://www.bom.gov.au/waterjobs>**

**By email to:** [waterjobs@bom.gov.au](mailto:waterjobs@bom.gov.au)

**All applicants** should include a completed Bureau of Meteorology Application Cover Form, Résumé or CV and a Statement addressing the Selection Criteria.

Should you experience any difficulties with accessing the position information or have any questions relating to the application process, please contact the Recruitment Unit, by emailing [waterjobs@bom.gov.au](mailto:waterjobs@bom.gov.au) or Telephone (03) 9669 4583 or (03) 9669 4333