



Job Details

Reference: 10783

Position Title: Geospatial Database Developer

Classification: Executive Level 1 (Senior Professional Officer Grade C – Engineering)

Salary range: \$80,569 - \$87,000 per annum

Location: Melbourne

Division: Water

Branch: IT Planning and Development

Section: Australian Water Resources Information System (AWRIS)

Applicants: Australian citizenship – see [Essential Applicant Information](#)

Applications close: Thursday 18 June 2009

Advertisement

Under the Federal Government's *Water for the Future* plan, the role of the Bureau of Meteorology has been expanded to manage Australia's water information. The Bureau is currently seeking to employ a range of specialist staff to undertake development of the Australian Water Resources Information System (AWRIS), which will provide a comprehensive and current account of Australia's water resources. With the support of the National Water Commission (NWC), the Bureau is undertaking a long-term project to develop AWRIS into a world-leading water information system. The project involves researching, developing and applying state of the art knowledge and technologies in hydrology and information sciences.

We are currently seeking to employ a Geospatial Database Developer to assist in the development of the Australian Hydrological Geospatial Fabric (AHGF), or Geo-fabric. The AHGF is being developed by the Bureau of Meteorology and through agreements with CSIRO and Geoscience Australia. The AHGF will be a single, consistent, national geospatial framework for hydrological features including catchment boundaries, stream, aquifers, floodplains, storages and wetlands linked to a 1" national Digital Elevation Model (DEM). The AHGF will be a key component of the Australian Water Resources Information System (AWRIS).

The Geospatial Database Developer will be responsible providing data modelling and geodatabase development support throughout the implementation of AWRIS. Proven high-level skills in data model development in the implementation of geodatabases, a demonstrated high level of knowledge of geospatial data, and GIS application programming for natural resources or other geospatial data are key requirements for success in this role.

Duty Statement

Under broad policy control and direction,

1. Provide data modelling and support in the development of geospatial databases.
2. Research and exploit available geospatial technologies, particularly the ArcGIS suite of products, to provide solutions to the AWRIS project's business needs.
3. Assist in the development and management of geospatial databases and data warehouses that serve both internal and external clients.
4. Assist in the development and management of user interfaces for the efficient use of geospatial data including the potential for spatial and spatial reporting.
5. Work closely with the implementation team in the development and management of web based tools for serving or delivering spatial and spatial products to internal and external clients.
6. Ensure that plans, policies and practices in relation to the various elements of the Bureau's Social Justice Strategy are applied in the work area and that training and development programs are implemented for staff.

Duties representing highest function: 1-3

Immediate Supervisor: GEOFABRIC SPECIALIST, EXECUTIVE LEVEL 2 (SPOB - ENGINEERING)

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.

The Geospatial Database Developer will be responsible for assisting with the conceptualisation, development, testing and implementation of the AHGF through collaboration with the AWRIS Team and direction from the Geofabric Specialist.

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. Proven competencies in the use of data modelling tools for the development, testing and implementation of geodatabase management systems (e.g. UML).
2. Demonstrated high level of knowledge of geospatial data, analysis and systems, particularly the ESRI ArcGIS suite of products.
3. Demonstrated ability in spatial application programming and the support of spatial web applications.
4. Demonstrated communication skills (written and oral) and proven ability to contribute effectively to a team environment.
5. Knowledge of the Bureau's Social Justice Strategy and a commitment to ensure its implementation in the work place.

Mandatory Qualifications

A degree or diploma from an Australian educational institution; OR a comparable overseas qualification, which is appropriate to the duties; OR other comparable qualifications, which are appropriate to the duties.

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 Dovey Dee, Geofabric Specialist on (03) 8638 8206.

Applications

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

Applications can be lodged personally at: The Recruitment Unit, 7th Floor,
700 Collins Street, Docklands

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 5pm on Thursday 18 June 2009.

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

By email to: waterjobs@bom.gov.au

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 or Telephone the Recruitment Unit on (03) 9669 4583.