



**Job Details**

**Reference:** 9093

**Position Title:** Senior Hydrologist

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

**Salary range:** \$80,569 - \$87,000 per annum plus 15.4% superannuation

**Location:** Brisbane

**Division:** Water Division

**Branch:** Hydrology

**Section:** Services Development and IT Support

**Status:** Ongoing

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

**Applications close:** Friday 13 March 2009

**Advertisement**

The Hydrology Section forms part of the Water Division, a new division of the Bureau of Meteorology established to fulfil the Bureau's new functions in water information under the Government's long term plan, *Water for the Future*, to integrate these with the Bureau's existing hydrological services functions.

This position will initiate and lead support of the development, implementation and maintenance of existing, improved and new flood forecasting systems and services, especially the support of computer - based hydrological modelling and applications and has a lead responsibility in real time forecasting and warning operations. The role will be primarily involved in managing and providing high level input to the provision of the flood forecasting and warning services but there will be some opportunities to contribute in other areas of the Water information Services program as appropriate including water resources forecasting and assessment and other projects that address surface water, groundwater, water quality and water use.

## **Duty Statement**

Under broad policy control and direction,

1. Initiate and lead hydrological studies in support of the development, implementation and maintenance of existing, improved and new hydrological and water resources data collection, analysis and forecasting systems covering flood forecasting and warning, water resources forecasting and assessment and other projects that address surface water, groundwater, water quality and water use.
2. Lead, manage and provide high level input to the provision of the hydrological and water resources services in the Bureau's Water Division. This will include participation in an operational flood forecasting team during flood events.
3. Design and develop software systems required to carry out the data management, visualisation, web-services and other elements in support of the hydrological and water resources services in the Bureau's Water Division.
4. Lead and manage activities and studies (internal and external) aimed at the:
  - a. collection and management of water resources data and information (surface water, groundwater, water quality and water use);
  - b. management and support of hydrological data collection networks and communication systems,
  - c. routine maintenance and support of on-line operational systems
  - d. modelling and analysis of hydrological and related data
  - e. calibration of hydrological models and techniques;
  - f. management of guidance material, manuals and directives;
  - g. preparation of reports, data assessments, services and other products for use by the Bureau and external clients; and
  - h. provision of computing and administrative support as required.
5. As required, represent the Bureau on committees and groups dealing with water resources information issues and liaise with both internal and external stakeholders. Work collaboratively with other groups on joint tasks as required.
6. Carry out other duties within the Bureau's Water Division, as required.
7. 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.

***Duty representing highest function:*** 1-4

***Immediate supervisor:*** EXECUTIVE LEVEL 2 (SPOB - ENGINEERING) (NO. 9091)

## **Job Profile**

The Hydrology Section forms part of the Water Division, a new division of the Bureau of Meteorology established to fulfil the Bureau's new functions in water information under the *National Plan for Water Security* and to integrate these with the Bureau's existing hydrological services functions.

The Bureau's new roles and responsibilities are provided under the Water Act (2007). The Bureau will continue to provide the nation's flood forecasting and warning services, building and extending these existing systems and services to support a wider range of river forecasting services to meet water management needs. The hydrological data required to support the river forecasting and flood warning services will be sourced through the existing flood warning networks and arrangements, as well as new arrangements to be put in place with the individual data custodians as required.

This position is a technical specialist responsible for the management and development of hydrological modelling and support systems that underpin the provision and improvement of the Bureau's floodwarning services in Queensland. In this role, the Senior Hydrologist allocates work to other hydrologists within the program and provides training to all Queensland Hydrology staff in the operation in the operation of new and existing systems and techniques. In particular, this position supports existing computer –based applications that underpin the flood warning services and operations, including the management, support and local development of the ALERT/ENVIROMON systems in the Bureau and in external co-operating agencies.

During floods, the Senior Hydrologist will lead flood-forecasting teams in the Floodwarning Centre (FWC) and provide direct briefings to emergency services, local governments and the media.

The Senior Hydrologist will also be involved in the broad range of Water Division activities at times, including field investigations and maintenance, quality control of data and information systems, and liaison with external clients. The Senior Hydrologist will also contribute to other areas of the national Water Information Services program.

## **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. Relevant professional qualifications (e.g. an Engineering, Natural Resources or similar degree) and a high level of competence in hydrology. Experience in the application of computer-based hydrologic models to flood studies and/or operational flood forecasting.
2. Expertise, or a high potential to develop expertise, in the provision of flood forecasting and warning services, which includes the field and office aspects of the design, development and operation of flood warning systems.
3. Demonstrated ability to achieve organisational objectives, including the ability to plan, implement and review work programs and projects.
4. Suitable personal attributes, including high interpersonal skills, initiative and the ability to communicate clearly and concisely, both orally and in writing, especially for agency and media briefing, and training of staff in new techniques and applications.
5. Knowledge and understanding of Equal Employment Opportunity, Industrial Democracy and Occupational Health and Safety responsibilities, and a commitment to the application of these principles in the workplace.

## **Mandatory Qualifications:**

**SPOC - A degree or diploma of 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 Peter Baddiley on 07 32398768

## **Applications**

**Applications can be lodged personally at Bureau's Brisbane office:** Level 21, 69 Ann Street  
Brisbane

**By mail to:** Regional Director – Bureau of Meteorology, GPO Box 413, Brisbane Qld 4001

**By email to:** d.faber @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.

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

Should you experience any difficulties with accessing the position information or have any questions relating to the application process, please contact Daryl Faber at the Admin Unit in Brisbane, by emailing d.faber @bom.gov.au or telephone (07) 3239 8723.