



### **Job Details**

<b>Reference:</b>	<b>10659</b>
<b>Position Title:</b>	<b>Hydrologist</b>
<b>Classification:</b>	<b>APS Level 6 (Professional Officer Grade 2- Engineering)</b>
<b>Salary range:</b>	<b>\$64,411 - \$72,196, plus 15.4% superannuation</b>
<b>Location:</b>	<b>1010 LaTrobe St, Docklands, Melbourne</b>
<b>Region:</b>	<b>Victoria</b>
<b>Section:</b>	<b>Hydrology</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>Friday 12 June 2009</b>

### **Advertisement**

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

This position will assist with hydrological studies in support of the development, implementation and maintenance of existing, improved and new flood forecasting systems and services and have a lead responsibility in real time flood forecasting and warning operations. While the role will be primarily involved in the provision of flood forecasting and warning services, 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. Due to the Bureau's flood forecasting and warning functions employee will be required, on occasions, to work outside normal working hours.

## Duty Statement

### Duties

Under general professional supervision,

1. Participate in the development, implementation and maintenance of existing, improved and new flood warning systems including hydrological and water resources data collection, analysis and forecasting systems covering flood forecasting and warning and other forecasting services of the Water Division.
2. Lead where required and participate as a team member in the provision of the operational flood forecasting and warning services in Victoria including the briefing of external agencies, the media and public.
3. Participate and take a lead in the daily and long term activities of the Victorian Flood Forecasting and Warning Unit including:
  - a. Development, maintenance and calibration of flood forecasting hydrological models and techniques;
  - b. Development and maintenance of flood warning products;
  - c. Routine maintenance and support of on-line operational systems;
  - d. Management and support of hydrological data collection networks and communication systems;
  - e. Data management;
  - f. Development and maintenance of guidance material, manuals and directives;
  - g. Preparation of reports, data assessments, correspondence, services and other products for use by the Bureau and external clients; and
  - h. Provision of computing and administrative support as required.
4. Participate in field work including:
  - a. Maintenance of Bureau owned rain gauges and repeater sites;
  - b. Site inspections at existing and proposed flood warning rainfall and stream level reporting stations;
5. Carry out other duties within the Regional Flood Forecasting and Warning Unit as required
6. As required, represent the Bureau on committees and groups dealing with various aspects of flood warning services and liaise with both internal and external stakeholders. Work collaboratively with other groups on joint tasks as required.
7. Be aware of, and apply as necessary the policies and practices of the various elements of the Bureau's Social Justice Strategy.

**Duty representing highest function:** 1-3

**Immediate supervisor:** EXECUTIVE LEVEL 1 (SPOC - ENGINEERING) (NO. 6127)

## Job Profile

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

A high priority task of the Water Division in Victoria is the continued effective provision of flood forecasting and warning services throughout the state in partnership with State and Local agencies.

The majority of the activities in support of this service provision task is directed at:

- Real-time flood forecasting and warning operations;
- Implementing national best practice guidelines on flood warning systems in Australia;
- Effective liaison and alignment of flood warning services to meet identified community needs;
- System development including flood forecasting techniques, interpretation of flood information and dissemination of warning information;
- Planning and maintenance of flood warning systems, including the establishment and operation of real-time data collection networks and infrastructure; and
- Adoption of the advances in communication and computer technology and information services.

The person must have strong analytical and investigative skills and the ability to deal with uncertainty in a complex and changing environment. The successful applicant must also be willing to take part in the field programs for periods up to a week at a time, and on occasions, to work outside normal working hours.

Several years' experience in a water/environmental science and/or hydrological engineering environment. A particular interest and aptitude in the analysis of problems and research would be advantageous.

A good understanding and knowledge of catchment hydrology and hydrometeorology, with experience in the application of real-time hydrological modelling systems is required. Some experience with geographical information systems would also be desirable.

Applicants will need to demonstrate a high level of liaison, communication and interpersonal skills and a capacity to adapt to and operate effectively in a rapidly changing environment.

In order to achieve successful operational outcomes and effective working relationships with all stakeholders, appointee will be provided with (i) on-the-job competency training in operational hydrology and flood warning, (ii) mentorship by senior and supervising hydrologists, and (iii) encouraged and supported in the ongoing individual development of their professional competencies.

## 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. Tertiary-level academic qualifications in hydrology, hydraulics and/or water engineering (e.g. an Engineering, Natural Resources, or similar degree or equivalent qualifications) in areas such as surface water, ground water, water quality and water use. Additional training in hydrology or hydraulics would be an advantage.
2. Demonstrated professional experience in operational hydrology, and/or hydrological or hydraulic modelling.
3. Familiarity with Windows, UNIX or Linux computing environments, and working experience in the use of scientific software including specialist modelling systems, spreadsheets, databases, graphic packages or Geographic Information Systems.
4. Ability to work in or lead a team and perform effectively in a stressful operating environment, including periods outside normal working hours.
5. An ability to manage projects in the office and in the field.
6. Suitable personal attributes, including interpersonal and problem solving skills, initiative and ability to communicate clearly and concisely, both orally and in writing.
7. Knowledge and understanding of the principles of the Bureau's Social Justice Policies and a commitment to apply them in practice.

## Mandatory Qualifications

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 Water Division within the Bureau of Meteorology visit <http://www.bom.gov.au/water/>

Please read the selection documentation and if you have any queries specific to this position please contact Ms Elma Kazazic on (03) 9669 4945.

## **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 5pm on Friday 12 June 2009.

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

**By email to:** [waterjobs@bom.gov.au](mailto: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](mailto:waterjobs@bom.gov.au) or Telephone the Recruitment Unit on (03) 9669 4333/4583.