



Job Details

Reference:	10663
Position Title:	Hydrologist
Classification:	APS Level 6 (Professional Officer Class 2)
Salary range:	\$64,411 - \$72,196 per annum, plus 15.4% superannuation
Location:	Hobart, Tasmania
Region:	Tasmania and Antarctica
Section:	Hydrology
Status:	Ongoing
Applicants:	Australian Citizenship- see Essential Applicant Information
Applications close:	Thursday 19 February 2009

Advertisement

The Water Division is 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 water plan *Water for the Future* and to integrate these with the Bureau's existing 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 employees will be required, on occasions, to work outside normal working hours.

Duty Statement

Under professional supervision

1. Undertake 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 and/or participate as a member in the provision of the hydrological and water resources services in the Bureau's Water Division. This will include participation in an operational forecasting team during flood events.
3. Participate in /or lead activities and studies 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.
4. Represent the Bureau and liaise with both internal and external stakeholders. Work collaboratively with other groups on joint tasks as required.
5. Carry out other duties within the Bureau's Water Division, as required.
6. Be aware of, and apply as necessary, the principles and practices of the various elements of the Bureau's Social Justice Strategy.

Job Profile

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

A high priority task of the Water Division in the Tasmania 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, with 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, appointees 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 in the ongoing 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. Demonstrated professional competence 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, groundwater, water quality and water use.
2. Demonstrated professional experience in operational hydrology, and/or hydrological or hydraulic modelling.
3. Working experience in Windows, UNIX and Linux computing environments, software development and applications for technical, service delivery and office functions. Good working knowledge of computer applications such as spreadsheets, databases and graphic packages. Studies and/or qualifications in computing would be an advantage.
4. Ability to work in or lead a team and perform effectively in a stressful operating environment, including periods outside normal working hours. An ability to manage projects in the office and in the field would be an advantage.
5. Suitable personal attributes, including interpersonal and problem-solving skills, initiative and ability to communicate clearly and concisely, both orally and in writing.
6. 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 institution, or a comparable overseas qualification, which is appropriate to the duties; 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 Ms. Kirsten Adams on (03) 6221 2061.

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 Thursday 19 February 2009.

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

By mail to: Senior Recruitment Manager – Water Division, Bureau of Meteorology, GPO Box 1289, Melbourne VIC 3001

By email to: 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 or Telephone (03) 9669 4583.