



Job Details

Reference:	PO1 Water (8 positions)
Position Title:	Graduate Hydrologist
Classification:	Professional Officer Grade 1 (BOM Broadband 1 APS Level 3 – 5)
Salary range:	\$47,351 - \$60,432 per annum In April 2008 a 4% salary increase will occur. New salary range will be \$49,245 - \$62,849 per annum.
Locations:	All capital cities, with most positions available in Melbourne & Canberra Location may be negotiable, depending on the requirements of the individual and the Bureau.
Division:	Water Division
Branch:	Water Analysis and Reporting
Section:	Water Resources Assessment or Water Accounting
Status:	Ongoing
Applications Close:	Monday 31 March 2008

Advertisement

The role of the Bureau of Meteorology has recently been expanded to manage Australia's water information. Funded over 10 years, this \$450m program offers exciting career opportunities with the Bureau's new Water Division.

The Bureau is currently recruiting for a number of graduate level entry hydrology positions in our Water Analysis and Reporting Branch. These positions involve the preparation of annual national water resources assessments, national water accounts and various hydrologic forecasts. Tasks will include analysis and reporting on various aspects of surface water, groundwater, water quality and water use across Australia, with opportunities for modelling also arising. Periodic involvement in flood forecasting activities is likely.

Opportunities exist in all capital cities of Australia, with most positions situated in Melbourne (Head office) and Canberra. Location may be negotiable, depending on the requirements of the individual and the Bureau.

Duty Statement

Under professional supervision,

1. Participate in hydrological data analysis and hydrological modelling (including aspects of surface water, groundwater, water quality and water use) in support of the compilation of annual national water resources assessments and national water accounts as required under the Water Act 2007.
2. Participate in the provision of the hydrological and water resources services as a member of a team in the Bureau's Water Division. This may include participation in an operational flood forecasting team during flood events.
3. Undertake activities and studies aimed at the:
 - (a) analysing water resources data and information (surface water, groundwater, water quality and water use);
 - (b) modelling water resources systems;
 - (c) undertaking water resources assessments;
 - (d) compiling water accounts;
 - (e) calibration of hydrological models and techniques;
 - (f) management of guidance material, manuals and directives; and
 - (g) preparation of reports, data assessments, services and other products for use by the Bureau and external clients.
4. 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

Duty representing highest function: 1-3,

Immediate Supervisor:EL1 (depending on location)

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 the national water plan 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 12-part Water Act includes a Part (7) on water information, setting out a range of new powers for the Director of Meteorology. These powers are broadly modelled on the Census & Statistics powers available to the Commonwealth since Federation. They include the powers with respect 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 assessments, manage a national water account, and to make water information freely available to the public.

The Bureau's expanded water information role entails the development and maintenance of an integrated, national water information system. This includes river flows, groundwater levels, reservoir storage, water quality, water use, water entitlements and water trades. Such data will need to be acquired from over 100 data custodians, with an on-going update schedule put in place to ensure data currency. The data, combined with a range of water-related modelling and forecasting activities will form the basis of the provision of the Water Division's wide range of services. These services will include the production of national annual water resources assessment and an annual national water account.

The Bureau will continue to provide the nation's flood forecasting and warning services, but build and extend 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.

Appointees will be involved in the preparation of annual national water resources assessments, national water accounts and various hydrologic forecasts. Tasks will include analysis and reporting on various aspects of surface water, groundwater, water quality and water use across Australia, with opportunities for modelling also arising. Periodic involvement in flood forecasting activities is likely. Due to the Bureau's flood forecasting and warning functions, on occasions, employees may be asked if they would be available to work outside normal working hours.

Appointees will be provided with on-the-job training in hydrologic theory and practice and/or short-term placements in partner organizations to gain experience in various facets of water resources management. Trainees will be provided mentorship by senior and supervising hydrologists.

Opportunities exist in all capital cities of Australia, but most appointees will be situated in Melbourne (Head office) and Canberra.

Selection Criteria

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1. Tertiary-level academic qualifications in mathematics, physics, geology, geography, ecology, engineering or hydrology.
2. Knowledge and understanding of data analysis concepts and methods. An appreciation of modelling methods would be an advantage.
3. Familiarity with Windows, UNIX or Linux computing environments, and experience in the use of scientific software including spreadsheets, statistical analysis packages, specialist modelling systems, image analysis techniques or Geographic Information Systems. Studies and/or qualifications in computing would be an advantage.
4. Ability to work in a team environment. An ability to manage projects would be an advantage.
5. Suitable personal attributes, including interpersonal 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 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 Mr Bruce Stewart +61 3 8638 8203.

Applications

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.

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 Maree Norden at the Recruitment Unit, by emailing waterjobs@bom.gov.au or Telephone +61 3 9669 4333

For further information on careers with the Water Division go to www.bom.gov.au/waterjobs