



Job Details

Reference:	552
Position Title:	Senior Professional Officer Grade B
Classification:	Executive Level 2
Salary range:	\$92,925 - \$105,351 per annum
Location:	700 Collins Street, Docklands, Victoria 3008
Division:	Services
Branch:	National Meteorological and Oceanographic Operations Centre
Section:	Operational Development
Status:	Ongoing
Applicants:	Australian citizenship – see Essential Applicant Information
Applications close:	Thursday, 23 October 2008

Advertisement

The occupant of the position will be responsible for planning, organising and controlling the work of the Operational Development Sub-section in providing maintenance and development of the computer based analysis/prognosis systems of the National Meteorological and Oceanographic Operations Centre.

Duty Statement

Under broad policy control and direction,

1. Plan, organise and coordinate the activities of the Operational Development Sub-section in providing maintenance and development of the computer based analysis/prognosis systems of the National Meteorological and Oceanographic Operations Centre (NMOC).
2. Provide significant input to the planning and development of the Bureau's Climate Monitoring and Oceanographic Services Programs.
3. Personally supervise and/or undertake development project work in relation to improvement, refinement and introduction of new techniques and methods of analysis and prognosis; the nature and scope of which involves a high level of management skill and specialist activity.
4. Collaborate with the CAWCR on the development and implementation of new and improved models and numerical techniques; ensure and maintain close liaison with the Information Technology Branch and other Branches of the Bureau as required.
5. Ensure that the plans, policies and practices of the various elements of the Bureau's Social Justice Strategy are applied and that training and development programs are implemented for staff in the Sub-section.

Duty representing highest function: 1

Immediate supervisor: EXECUTIVE LEVEL 2 (SPOA - METEOROLOGY) (NO. 501)

Job Profile

The National Meteorological and Oceanographic Centre (NMOC) serves as the national operations centre for Australia's national weather service, providing centralised guidance products and services. The main role of the Operational Development Sub-section (ODSS) is to maintain, test, implement and develop NMOC's operational computer-based meteorological systems so that the associated products can be effectively used internally, throughout the Bureau, and externally.

The occupant of the position will be responsible for planning, organising and controlling the work of ODSS. The occupant will lead a team, currently consisting of four EL1 (SPOCs), in carrying out the functions of the position. Tasks are shared among its members as needs and priorities change. Members of the team work closely with operational-shift staff in maintaining real-time operations. In an emergency, this could require out-of-hours consultations.

Operational meteorological systems that are the responsibility of ODSS include those associated with: global assimilation and prediction, global ensemble prediction, UV prediction, regional assimilation and prediction, statistical correction, rainfall, thunderstorms, atmospheric transport, air quality, fire weather and verification. In order to effectively lead ODSS, the occupant would currently need a broad understanding and knowledge of programming and possess programming skills and ability in UNIX, Fortran, UNIX scripts, SQL, C, python, graphics packages, web development and PC applications. In addition, the occupant would need to be able to manage systems across a wide range of computer platforms and be aware of scheduling and storage requirements.

The occupant will also play a leading role in evaluating scientific and technological advances and in recommending systems and procedures for meteorological operations in NMOC. It is expected that the occupant would also contribute to the wider activities of the Bureau. This will involve extensive consultation and interaction with CAWCR, other Branches and Regions, WMO, other National Meteorological Services, and other national and international agencies.

OPERATIONAL DEVELOPMENT SUB-SECTION ROLE AND FUNCTIONS:

The National Meteorological and Oceanographic Centre (NMOC) serves as the national operations centre for Australia's national weather service, providing centralised guidance products and services. The main role of the Operational Development Sub-section (ODSS) is to maintain, test, implement and develop NMOC's operational meteorological systems so that the associated products can be effectively used internally, throughout the Bureau, and externally.

More specifically, the functions of ODSS are to:

- (1) maintain the operational computer-based meteorological systems used by NMOC through all phases from data input to the output of final products;
- (2) appraise the numerical products to detect errors and deficiencies and take appropriate remedial action;
- (3) monitor the performance of operational products and maintain and promulgate skill scores and other performance statistics;
- (4) provide advice on the numerical meteorological systems used in NMOC;
- (5) undertake appropriate internal supporting research and development;
- (6) co-ordinate, as necessary, arrangements for approved access to NMOC systems and products, both internally and externally.

Selection Criteria

Applicants must address the selection criteria. 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 thorough knowledge of dynamical meteorology and atmospheric processes, in particular a good understanding of numerical assimilation and prediction models, verification techniques, atmospheric transport, air quality, statistical guidance and ensemble systems.
2. Ability to apply scientific knowledge in operational applications and provide effective response to operational demands as required. Aptitude for operational maintenance, implementation and development of systems supporting operational analysis and prediction in the National Meteorological and Oceanographic Centre. Awareness of current operational procedures and requirements. Awareness of regional, WMO, and other national and international activities. Ability to prepare, or oversee, the production of internal and external reports as required.
3. Well developed computer skills, particularly in a UNIX environment, and a good knowledge of computer systems used by the National Meteorological and Oceanographic Centre. A good understanding of Fortran, UNIX shell script programming, SQL, C, python, graphics packages, web development and PC applications. A good knowledge of interactions across different computer platforms, scheduling, data storage and archiving.
4. Personal qualities such as initiative, judgement, perception, perseverance, and an ability to lead a team and to liaise effectively with operational, research and other staff. A willingness and ability to manage and take full responsibility for the Sub-section's assigned operational systems.
5. A knowledge and understanding of the principles of the Bureau's Social Justice Program and a commitment to apply these in practice.

Eligibility Requirements: Mandatory Qualifications -

A degree or diploma of an Australian 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 Chris Ryan on (03) 9669 4030 or c.ryan@bom.gov.au.

Applications

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

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

By email to: jobs@bom.gov.au

All applicants are required to 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 information please contact the Recruitment Unit by email at: jobs@bom.gov.au or by telephone on 03 9669 4337 / 03 9669 4379 .