



# A NEW OUTLOOK FOR YOUR CAREER

## Operational Implementation Technical Lead – Numerical Prediction Systems Executive Level 2

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<b>JOB REFERENCE NUMBER</b>	60001304
<b>CLASSIFICATION</b>	Executive Level 2 (Senior Professional Officer Grade B (Met))
<b>GROUP</b>	Science & Innovation
<b>PROGRAM</b>	Research to Operations
<b>LOCATION</b>	Melbourne
<b>STATUS</b>	Ongoing
<b>WORKING HOURS</b>	Full time
<b>SALARY RANGE</b>	\$119,495 to \$134,208, plus an additional 15.4% superannuation
<b>CLOSING DATE</b>	11:30pm AEST/AEDT Thursday 26 <sup>th</sup> November 2020
<b>APPLICANTS</b>	Australian Citizenship – see <a href="#">Eligibility Requirements</a>
<b>CONDITIONS</b>	The successful applicant may be required to obtain and maintain a Baseline security clearance from the Australian Government Security Vetting Agency
<b>CONTACT OFFICER</b>	Dr Yi Xiao Manager, Weather Marine & Climate Models Phone: (03) 9669 4390 Email: <a href="mailto:yi.xiao@bom.gov.au">yi.xiao@bom.gov.au</a>

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## ABOUT US

The Bureau of Meteorology is one of the few organisations that touches the lives of all Australians and all Australia, every day. The Bureau works across Australia and remote islands, providing services from the Antarctic to beyond the equator, and from the Indian Ocean to the Pacific.

We are Australia's national weather, climate and water agency, in the Agriculture, Water and Environment portfolio of the Australian Government, operating under the authority of the Meteorology Act 1955 and the Water Act 2007. We provide data, information, knowledge, insight and wisdom to help Australians prepare and respond to the realities of their natural environment, including droughts, floods, fires, storms, tsunamis and tropical cyclones.

Our products and services include observations, forecasts, analysis and advice covering Australia's atmosphere, water, oceans and space environments. We undertake focussed scientific research in support of our operations and services. Through regular forecasts, warnings, monitoring and advice, we provide one of Australia's most fundamental and widely used public services.

We have strong relationships with our customers, partners and stakeholders in Australia, including the Australian Community and the emergency services sectors, all-levels of Government, and focus sectors including aviation, agriculture, energy and resources, national security and water.





## WORKING AT THE BUREAU

The Bureau represents a dynamic and exciting opportunity. A role with the Bureau involves:

OUR WORK	OUR PEOPLE	OUR ENVIROMENT	OUR EXPIERIENCE
Purpose-driven impactful work that brings real benefit to the Australian Community, businesses and industry.	A deeply passionate and highly skilled workforce that continuously challenges the status quo to achieve greater impact and experiences for our colleagues and customers.	A world class organisation with excellent workplaces in great locations, access to cutting-edge technology and a safe and inclusive environment for everyone.	A commitment to professional development and growth, backed by clear career pathways and training opportunities, and complimented by a competitive remuneration package.

## POSITION OVERVIEW

The Weather, Marine and Climate Models team in Research to Operations (R2O) is responsible for transitioning research candidates to operations in four modelling areas: weather, marine, climate and dispersion. The main role of this team is working in a project framework to design, develop, and transition to operations, high quality operational numerical prediction systems that produce products and services that deliver impact and value to our internal and external customers.

We are looking for a results-oriented, innovative, operational implementation lead to join our team. The occupant of this position is expected to lead the design, development and implementation of systems that underpin numerical prediction capabilities at the Bureau, and to contribute to the strategic planning for these systems.

In addition, the role will be instrumental in leading the operationalisation of the new and upgraded systems that are being developed to support the Public Service Transformation Program (PST). These include the development of a new National Analysis System and extensions to the Tropical Cyclone Prediction capabilities.

The R2O Weather, Marine and Climate Model team shares responsibilities amongst its members as needs and priorities change. Members of the team support operational staff in maintaining real-time operations.

The officer will have highly developed professional skills, and will be experienced in working collaboratively in teams, as well as taking responsibility for critically important operational work. Specifically, the officer will have teamwork and leadership skills appropriate to the Executive Level 2 level in the Australian Government Public Service's Integrated Leadership System.

## ROLE RESPONSIBILITIES

The responsibilities of the role include but are not limited to:

1. Complying with all Bureau work, health and safety policies and procedures, and taking reasonable care for your own health and safety and that of employees, contractors and visitors who may be affected by your conduct.



2. Determining project requirements and developing work schedules. Undertake the design and development of highly complex operational numerical prediction systems. Liaising with team members and management to deliver project objectives at high standards.
3. Provide technical leadership in designing, planning and implementing the upgrade of operational numerical prediction systems. Contribute to developing, coaching, and mentoring other team members.
4. Contribute at a high level to Group-wide initiatives to support the development of operational suite standards, and the quality assurance practices that ensure continuous improvement to operational systems reliability, portability, and maintainability.
5. Maintain close liaison with other teams in R2O and other groups in the Bureau, including researchers, operational meteorologists, and Data and Digital Group support staff, on a wide range of relevant activities. Contribute at a high level as a technical expert to achieve improved outcomes.
6. Communicate and make decisions that have significant impact on the day-to-day operation of our team, and the interaction with other teams
7. Ensure that the plans, policies, and practices of the various elements of the Bureau's Commitment to Diversity and Inclusion are applied, and that training and development programs are implemented for staff in the team.

## SELECTION CRITERIA

The Bureau encourages applications from all suitably qualified candidates. Applications will be considered based on alignment with selection criteria, which have been matched to the APSC Work Level Standard and Integrated Leadership Systems for Executive Level 2 positions.

### **Demonstrates relevant knowledge, skills and expertise in operational numerical prediction systems**

- A background in meteorology, science, mathematics or computing with exceptional experience in analysing and processing scientific datasets. An advanced understanding of numerical methods used for the analysis and prediction of the atmosphere or ocean is required. Ideally this includes a strong understanding of the numerical prediction systems used by the Bureau, especially weather prediction systems, with a proven ability to deliver outstanding benefits to our customers from these systems.
- Demonstrated extensive experience in leading the planning, preparation, design, implementation and upgrade of operational numerical prediction systems. Strong track record of delivering on time, and a proven ability to diagnose problems, prioritise tasks and ability to respond to operational incidents.
- Excellent programming skills including code management and testing. Demonstrated extensive experience in designing highly complex and well optimised operational suites under Cylc scheduler, contributing to Cylc and rose development, and developing automated trigger techniques.
- Strong and proven experience in formal change/release management practices in a High Performance Computing environment

### **Achieves results and demonstrates innovation**

- Build organisational capability and responsiveness
- Steer and implement change and deal with uncertainty and risk
- Plan and deliver operational business outcomes and optimise resource management
- Develop innovative ways to ensure agreed solutions and projects deliver on quality, time and budget is recognised



- Use analytical and problem-solving skills and your aptitude for applying new knowledge in your working life are valued.

#### **Shapes Strategic Thinking**

- think analytically and focus strategically
- Inspire a sense of purpose and direction around the realisation of operational project goals
- shows judgement, intelligence and common sense.

#### **Communicates effectively**

- Excellence in communication – both oral and written – with all your internal and external stakeholders, colleagues and clients
- Ability for high level liaison and ability to listen, understand and adapt
- Ability to build and maintain productive networks is also required
- Ability to negotiate persuasively.

#### **Exhibits both personal drive and integrity**

- Commits to action and display resilience
- Striving to achieve your work goals whilst maintaining the absolute integrity that is expected of us all
- Integrity emphasising the importance of ethical behaviour in the workplace and upholding the APS Values and Code of Conduct.

#### **Nurtures productive working relationships**

- Encourages and motivates people
- Guides, mentors and develops people
- Values individual differences and diversity with an understanding of the various elements of the Bureau's Commitment to Diversity & Inclusion, and a commitment to apply them in practice.

#### **Mandatory qualifications:**

A degree or diploma of an Australian institution, or comparable overseas qualification, which is appropriate to the duties, or eligibility for graduate membership of, or registration by, a professional body, which is appropriate to the duties to be performed and a graduate diploma in Librarianship of an Australian institution or a comparable overseas qualification which is appropriate to the duties.

## **MERIT POOL**

The selection process will establish a merit pool that may be used to fill similar positions within 12 months.

## **HOW TO APPLY**

Applications can be lodged through [BOMCareers](#).

Your application will consist of resume, contact details for two referees and a '800-word pitch' that considers:

- position overview
- job responsibilities
- selection criteria
- relevant sections of the [Integrated Leadership System \(ILS\)](#) and [APS work level standards](#).



The Bureau is an equal opportunities employer. We will support applicants with disability through our [RecruitAbility Program](#) and will provide reasonable adjustments such as access, equipment and other practical support at relevant stages of the recruitment process.

We recognise the need for our workforce to reflect the community we serve and provide an inclusive environment that respects and values diversity and is described in our [Diversity and Inclusion Statement of Commitment](#). We strongly encourage qualified applicants from diverse backgrounds to apply.

The Bureau offers flexible working options, reasonable workplace adjustments and an Employee Assistance Program (EAP). Should you have any questions or experience any difficulties with applying online, please contact the Recruitment Team on [BOMCareers@bom.gov.au](mailto:BOMCareers@bom.gov.au)

## COVID-19 RESTRICTIONS

We understand there are unique and evolving challenges due to the current COVID-19 pandemic. The Bureau is responsive and making changes to ensure the safety of all candidates and our team.

Under the relevant legislation and guidance of the National Chief Medical Officer:

- Currently all interviews will be held via audio/video conference (across a range of platforms to accommodate personal requirements) unless otherwise advised.
- The successful candidate may be required to carry out the duties remotely for either a period or until otherwise advised.

## ADDITIONAL INFORMATION

To find out more about the employment conditions at the Bureau, please refer to the Bureau of Meteorology [Enterprise Agreement 2018](#).