



Job Description Form

Principal Environmental Officer

Position Number:	3032748	Portfolio:	Approvals
Classification:	Specified Calling Level 4	Reports to:	Manager Air Quality Science, SCL4
Location:	Joondalup	Direct Reports:	Nil

Description

The Air Quality Branch is responsible for the development of air quality regulatory policy and studies, ambient air monitoring and provision of technical and scientific air quality advice to other parts of the department, the Environmental Protection Authority, other government agencies, industry and the community.

The Principal Environmental Officer in Air Quality Branch provides high-level specialist expertise in air quality and atmospheric science, with a focus on air quality modelling. The position leads and coordinates complex and significant air quality investigations, assessments and modelling work and provides authoritative scientific, technical and strategic advice to support regulatory, policy and other departmental decision-making. The position exercises a high degree of professional judgement and independence in addressing complex, emerging and contentious matters and provides professional and technical leadership, guidance and mentoring to other environmental officers to build specialist capability.

Responsibilities

In context of above description, the role:

- Leads the provision of high-level scientific, technical and strategic advice on air quality and atmospheric science matters to support environmental regulation, policy development and government decision-making.
- Leads and coordinates the assessment of complex air quality issues, environmental impact assessments, modelling studies and scientific investigations to inform regulatory and strategic outcomes.
- Leads the development, review and implementation of air quality policies, guidelines, management strategies and technical frameworks that support environmental protection and sustainable development objectives.
- Provides scientifically defensible advice and expert opinion on emerging air quality issues, scientific developments and environmental risks, ensuring decisions are informed by sound evidence and best practice.
- Leads complex projects and work programs, ensuring agreed outcomes, timeframes, quality standards and reporting requirements are achieved.
- Builds and maintains effective relationships with government agencies, industry, research organisations, consultants and community stakeholders to support the delivery of strategic air quality outcomes.
- Represents the department on internal and external committees, working groups and forums relating to air quality, atmospheric science and environmental management.

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- Provides professional and technical leadership, guidance and mentoring to other environmental officers, fostering capability, collaboration, innovation and continuous improvement.
- Manages a workload, prioritising competing demands and meeting departmental operational requirements.
- Undertakes additional duties as required within the skills and scope of the position capabilities and departmental needs.

Our people, our leaders, our values

At DWER, every employee is a leader. To support this, we have established clear [Leadership Expectations](#). For this role, you will be a [Personal Leader](#). Demonstrating the expected behaviours is crucial and aligned with the role's requirements.

Our culture is shaped by our [values](#). All employees are expected to uphold equity, diversity and inclusion, work health and safety, and ethical principles in all aspects of their work. This includes demonstrating cultural responsiveness by valuing diverse perspectives and contributing to culturally safe, inclusive, and trusted services – particularly for Aboriginal people and communities.



**We serve to
make a
difference**



**We build
trust**



We care



**Open
minds**



**Better
together**

Work related requirements

Read these requirements in context of the above contents.

Essential

- You hold a Bachelor of Science or an approved equivalent tertiary qualification.
- You have substantial demonstrated experience in air quality and atmospheric science, including the application of air quality and meteorological modelling (using tools such as AERMOD and CALPUFF) and environmental data analysis (using tools such as Python and R or equivalent) to assess complex environmental issues and provide authoritative, scientifically defensible advice that supports regulatory, policy and strategic decision-making (*you think through complexity*).
- You have experience leading and coordinating complex technical projects, investigations or initiatives involving internal and external contributors. You apply sound professional judgement, planning and adaptability to manage risk, competing priorities and changing requirements and deliver high-quality outcomes (*you deliver on high-leverage areas*).
- You have highly developed interpersonal and communication skills, with demonstrated ability to build productive relationships, collaborate with and influence a range of stakeholders, and communicate complex scientific and technical information through clear and authoritative written and verbal advice (*you lead collectively*).
- You have substantial experience managing complex workloads, competing priorities and strategic work programs. You apply sound judgement, effective planning and a strong focus on quality to deliver timely, accurate and well-reasoned outcomes, manage risk and contribute to organisational objectives (*you deliver on high-leverage areas*).

Desirable

1. Knowledge and experience in mesoscale meteorological modelling using the Weather Research and Forecasting (WRF) model.

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2. Experience with photochemical air quality modelling using the Community Multiscale Air Quality Modelling system (CMAQ) or similar chemical transport model, including emissions processing and model configuration.
3. Familiarity with high-performance computing (HPC) environments, Linux operating environment and FORTRAN programming language.

Special requirements

- The department will conduct a national police check before offering employment.
- The position requires a current WA “C” Class Drivers Licence.