



# Principal Coastal Engineer

**Branch:** Coastal Management  
**Directorate:** Maritime  
**Position Number:** 00027471  
**Classification:** Specified Callings Level 4  
**Physical Location:** Fremantle (Newman Court)  
**Award/Agreement:** Public Service Award & Public Sector CSA Agreement 2024

## Our purpose: Empowering a thriving community

The Department of Transport and Major Infrastructure (DTMI) together with Main Roads WA and the Public Transport Authority forms the Transport Portfolio. DTMI seeks to connect people and places to keep Western Australia moving towards a safer, healthier, and more sustainable future.

Join us and work in a role where you can bring your best self to work and leave work having been seen and heard, and able to contribute meaningfully to the communities throughout Western Australia. DTMI promotes a diverse workforce and embraces a high standard of equal opportunity, health and safety, and ethical practice. DTMI is a values-based organisation committed to empowering a thriving community.



Working **together**, we get things done.



Looking after **ourselves** and supporting **others**.



Always open to **possibilities**.



Taking ownership, we **deliver**.

## Overview of the directorate

The Maritime Directorate is responsible for meeting the challenges and maximising the opportunities presented by the vast WA coastline and facilitating the safe and sustainable use of navigable waters. Responsibilities include oceanographic data collection, management of our fragile coastline, strategic coastal planning, design and delivery of recreational and commercial boating infrastructure, management of maritime facilities, management of maritime environmental emergencies, management of operational initiatives and the performance of Harbour Master functions within SPA ports throughout the State. The Directorate promotes the professional development of its staff by encouraging active participation in Maritime emergency activities and inter-directorate projects in line with operational requirements and employee interests. To meet the needs of its customers and balance the competing demands placed on one of the State's greatest assets, the Maritime Directorate actively engages with other State, Commonwealth, and local government authorities, the private sector, and the community. The Directorate is dedicated to the enhancement of the WA coast and safe and sustainable use of navigable waters. A flexible management approach encourages staff to participate in projects across the specialist project areas, offering job diversity in a stimulating and collaborative work environment that prides itself on being supportive and friendly.

## Overall purpose of the role

Undertakes coastal engineering investigations and design for coastal structures including breakwaters, seawalls, groynes and revetments.

## We recognise and nurture leadership in all contexts.

We consider all our people to be leaders, whether leading a team, a technical function or leading themselves. As such, we expect our people to adopt the expected behaviours and associated mindsets outlined in [Building Leadership Impact](#) and described fully in [Leadership Expectations](#).

The leadership context of this role is [Leadership context]. We provide opportunities to develop and mature your behaviours so you can have a greater leadership impact.

1.

## Work description

- Performs duties as highly qualified and experienced Coastal Engineer, developing and reviewing complex coastal engineering designs and investigations whilst working within a multidisciplinary team.
- Develops sustainable coastal engineering solutions for medium to high complexity coastal engineering projects including through the application of numerical and physical modelling systems.
- Negotiates with, prepares project briefs for, directs and assesses the technical services provided by specialist consultants and contractors, and maintains liaison with clients and consultants to ensure agreed outcomes are achieved.
- Coordinates and monitors performance of external consultancies and engineering works contracts relating to the development and construction of maritime facilities and coastal management projects.
- Reviews and approves complex design, documentation and technical reports.
- Ensures effective communication with coastal managers, community members, relevant authorities, consultants and contractors, and represents the Department as required.
- Acts as Principal's Representative, Superintendent or Superintendent's Representative for contracts (consultancy and construction).
- As required, prepares Ministerial and briefing notes in response to requests from the Minister's Office and provides advice to the Executive on a range of maritime and/or coastal issues.
- Undertakes research, prepares strategic plans, and participates in projects as required.
- Mentors, coaches and develops Officers within the Maritime Planning Branch and the Coastal Infrastructure Business Unit.
- Other duties as required.

## Work related requirements

The following criteria are to be applied within the context of this position, which includes alignment to the Department's values.

### Criteria:

#### Essential:

1. Qualification in Engineering and eligibility for professional membership of the Institution of Engineers Australia.
2. Extensive relevant experience in investigation, analysis, design and construction of coastal structures including breakwaters, seawalls, revetments and groynes.
3. Extensive knowledge and experience in Coastal Hazard Risk Management and Adaptation Planning projects, contract management of maritime and/or coastal engineering projects (construction and consultancy).
4. Demonstrated networking, communication and interpersonal skills with the ability to build effective working relationships with various stakeholders in a variety of contexts.
5. High level written communication skills including the ability to write reports and present complex information in a clear, concise and articulate manner using appropriate unambiguous language.
6. Proven experience in working across multi-agency and a multi-disciplinary team with the ability to lead, manage, mentor and coach others.

#### Desirable:

1. Chartered Professional Engineer with Engineers Australia or eligibility for chartered status.
2. Experience in the application and interpretation of numerical modelling systems relevant to coastal engineering design and coastal management.
3. Local knowledge of the Western Australian coast as it relates to coastal processes.

## Reporting relationships

Director Maritime Planning, Level 8



Manager Coastal Engineering and Management, Specified Callings Level 5



**This Position**



## Allowances/Special conditions

1. A willingness to travel interstate for short periods and work in remote locations.
2. A current national police clearance certificate incorporating criminal and traffic convictions and infringements is required for this position.

## Certification

The details contained in this document are an accurate statement of the duties, responsibilities and other requirements of the position.

**Executive Director  
People and Culture**