



Manager, Digital Engineering

Branch:	Westport
Directorate:	Commercial and Corporate
Position number:	00028123
Classification:	Level 7
Physical location:	Perth (Murray Street)
Award/Agreement:	Public Service Award & Public Sector CSA Agreement 2024

A world-class container port and trade network, built with nature in mind, that unlocks Western Australia’s future economic prosperity

Imagine being part of a once-in-a-century project that will redefine Western Australia’s trade future. Westport isn’t just building a port. We’re creating a world-class container hub and freight network designed to unlock WA’s economic potential for generations to come.

Westport is the State Government’s initiative to resolve future supply chain constraints by moving container trade from Fremantle to Kwinana. Our vision combines cutting-edge marine infrastructure with an integrated road, rail, and logistics network, supported by innovative policy, governance and technology, to ensure WA remains globally competitive and that the long-term health of Cockburn Sound is supported.

This is a career-defining opportunity to contribute to something extraordinary. At Westport, you’ll join a dynamic, multi-disciplinary team working closely with industry leaders, community stakeholders, and experts in engineering, marine science, sustainability and transport. Together, we’re planning for the next century of trade growth and creating lasting economic, social, and environmental benefits for WA.

To find out more visit: www.westport.wa.gov.au

Westport values



Collaboration

Working together with our team, across government and with our stakeholders.



Outcomes Focused

Good planning with well defined outcomes, seeking innovative solutions.



Clarity

Clear processes and communications, planned and proactive activities.



Overview of the Directorate

Westport is a transformational program that offers a rare opportunity for progressive and impactful large-scale infrastructure planning. Part of the Department of Transport and Major Infrastructure, the Westport Office is responsible for delivering a diverse program of works that will:

- Scale up WA's trade capabilities for the next century.
- Enable larger, more efficient vessels that Fremantle Port cannot accommodate.
- Increase the share of rail freight, reducing road congestion and emissions.
- Include an innovative port design informed by Cockburn Sound marine environment science.
- Enable the transformation of Fremantle Port into vibrant mixed-use communities.
- Generate thousands of jobs during construction and operations.
- Encourage growth within the Kwinana Industrial Area and Western Trade Coast.

Since 2017, Westport has been tackling the challenge of Fremantle's future constraints head-on. Stage 3 delivered a preferred design and a compelling Business Case showing the economic risk if WA doesn't act now. Currently, in Stage 4 – Design and Delivery, we're moving ahead with detailed plans for marine infrastructure, roads and rail.

Guided by our values, Westport is a decade-long journey to deliver a new container port in Kwinana by the late 2030s, futureproofing WA's trade capabilities for the next century.

Overall purpose of the role

The Manager, Digital Engineering is responsible for the development and implementation of a unified approach to Digital Engineering integrating graphical, non-graphical, file and database formats of information utilised across the Westport program and interfacing across all Westport projects, related programs and projects, and stakeholders.

The position is responsible for leading activities to achieve fit for purpose Digital Engineering across people, policy, process and technology workstreams to realise best practice design, delivery, commissioning and handover, and asset management outcomes.

Work description

1. Digital Engineering Management

- Leads the management of Digital Engineering within Westport, and drives the improvement of Digital Engineering requirements definition, and deliverables assurance, across the Westport program.
- Leads and facilitates the implementation of digital design processes and software and integration across project delivery throughout the lifecycle of the Westport program.
- Researches, develops and implements Digital Engineering information management systems and ancillary information modelling systems.
- Develops the Digital Engineering capability required for Westport program delivery through the provision of specialist advice, documentation and training. Looks for opportunities to improve the efficient management of Data and Information using Digital Engineering principles.
- Works with internal and external stakeholders to create the Digital Engineering strategies, processes, tools and content to achieve the overall Westport program requirements.
- Ensures design and delivery teams maintain the integration of digital requirements and solutions with project delivery processes, for a consistent digital approach to be adopted on all projects.
- Provides technical leadership in the scoping, planning and implementation of Digital Engineering frameworks and specifications, e.g. Digital Information Requirements, Digital Management Plans.

- Leads the definition of requirements for data acquisition and integration, and to design, implement, and maintain a digital twin (if future requirements are enabled).
- Develops, maintains and manages quality assurance and audit procedures to monitor compliance of project deliverables with Westport's specified requirements.
- Considers options for future developments in Digital Engineering management including new technology, international and other best practice standards, identifying trends and business opportunities relating to digital design and information management.
- Leads the risk management and mitigation of digital information including asset information across all areas relevant to the Westport program functions; reducing risk levels to an acceptable level and ensuring decision making is based on reliable and accurate information.

2. Consultation and Stakeholder Relationships

- Collaborates with stakeholders in establishing clear Digital Engineering strategies and requirements, proactively seeks out opportunities to achieve best practice, ensuring compliant and fit for purpose deliverables.
- Identifies and consults with internal and external stakeholders, professional institutions and experts on the development and improvement of Digital Engineering and information management standards, initiatives and improvements for the Westport program.

3. Project Management

- Liaises with personnel at all levels, as well as stakeholders, consultants and other government agencies.
- Working with the Westport Commercial team, ensures timely, quality and value-for-money delivery of both major and minor contracts.
- Identifies, documents, and manages project dependencies and risks.
- Prepares reports, briefing notes, presentations and a range of other written documents as required including regular project status, financial and progress reporting.
- Undertakes other duties as directed.



Work related requirements

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

Criteria

Essential:

1. Extensive experience in Digital Engineering, data environments, and developing/documenting digital information frameworks.
2. Sound understanding of digital design, documentation, procurement, and application in planning and construction management.
3. Excellent communication and interpersonal skills, with the ability to collaborate, negotiate, consult, and build effective stakeholder relationships.
4. Demonstrated ability to work within and lead a project team while maintaining a focus on program goals and objectives and promote an effective team working environment.
5. Demonstrated highly developed conceptual and analytical skills, with a high level of initiative and proven ability to provide innovative thinking in identifying solutions to complex problems.

Desirable:

1. Strong industry knowledge in Information Management, Design Management, BIM processes and development of Digital Twins.
2. A relevant qualification in a related field (or progress towards).



Reporting relationships

Executive Director Commercial and Corporate, Class 1, 5 FTE



Senior Manager, Data and Information Services, Commercial and Corporate Level 8, 4 FTE



Manager, Digital Engineering (this position)



Nil

Allowances/special conditions

- 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**

BE PART OF
SOMETHING **REAL**