Sydney WATER

Job Profile

BIM Modeller

Group: Finance, Commercial & Digital

Job Summary

To be completed by People and Culture team			
Job Family	Engineering	**Career Stage**	D
Job Function	Generalist Engineering	**Career Stream**	Professional
Coverage EA = Enterprise Agreement ICE = Individual Contract of Employment	EA	**Last Modified Date**	11/05/2026
To be completed by Manager ~ (Team Size relates to People Leadership)			
Work Environment	Hybrid	**Team Size**	
People Leader	No	**Indirect Team Size**	

Who we are

At Sydney Water, we exist for our customers. We're more than 3,500 people working together, striving to do more and be better—better for the environment, our customers, our people, and our water. Our people are passionate about working together, and driving agility, accountability, innovation, sustainability, and exceptional customer experiences.

Sydney Water is the main provider of water, wastewater, recycled water, and stormwater services in Greater Sydney. Our employees are dedicated to our customers, ensuring services are reliable and affordable, we are proactive and easy to engage with, forward-thinking, and environmentally focused.

Working with us means helping to provide essential services, safeguarding Sydney's future with a sustainable water supply, and protecting our iconic waterways. Our strategy guides our journey to enhance customer outcomes and continue delivering robust services to our city into the future.

Job Purpose

The Sydney Water Digital Engineering Framework drives improvements in time, cost, and quality across the asset lifecycle by leveraging BIM and Digital Twin capabilities to enhance design, delivery, and asset intelligence. The BIM Modeller provides hands-on support to develop, coordinate, and manage accurate BIM models and data, ensuring alignment with framework standards and lifecycle asset needs within a large infrastructure environment.

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Accountabilities

Job Specific	Everyone has a role to play in making our organisation a safe, high performing culture. The role will be required to: • Champion safety and wellness and understand safety accountabilities. • Build and be part of a positive safety culture • Attend safety meetings and workshops when required • Work constructively as one team to achieve team outcomes • Contribute to a high performing team culture and commitment to the improvement of safety, customer, health and environmental outcomes • Role model SW values and behaviours and participate in a constructive and supporting working environment • Provide support and technical advice to team members. Support your manager to help identify capability gaps to improve team effectiveness • Provide input to prioritisation and daily task allocation as required by your manager • Provide input to prioritise work across the team • Contribute to meeting safety performance targets • Actively contribute to individual and team development goals This role is expected to support the BIM Delivery Lead by: • Supporting the ongoing digitisation and digital enhancement of Sydney Water 3D assets. • Managing and maintaining 3D models, asset data and associated metadata. • Validating and coordinating WAC 3D asset deliverables, including field verification and asset data capture. • Supporting the delivery of BIM-enabled projects across capital works and internal programs. • Developing and implementing workflows for processing 3D models for use in Digital Twin and asset information environments. • Contributing to the development and improvement of BIM guidelines, standards and supporting documentation. • Ensuring BIM deliverables are compliant with agreed requirements and suitable for whole-of-lifecycle asset use, including discipline models, federated models and data structures. • Managing and contributing to project Common Data Environments (CDEs) and connected data environments. • Supporting the integration of BIM and GIS systems and delivery methodologies. • Assisting with data handover and information acquisition processes, with a focus on automation and technology. • Applying quality assurance practices for BIM model and data checking, validation and reviews. • Supporting the development of BIM requirements across project lifecycle phases for inclusion in contracts, standards and the Digital Engineering Framework. • Assisting delivery partners with asset tagging, classification and data alignment. • Providing technical assistance to BIM Delivery Leads and project teams. • Collaborating with Asset Lifecycle and internal stakeholders on BIM model and data management. • Applying Sydney Water BIM standards and relevant industry best practice. • Sharing knowledge, lessons learned and contributing to continuous improvement of processes and delivery outcomes.

Role Requirements

Education / Qualifications

Required	• Tertiary qualification in Engineering, Construction, Digital Engineering or related disciplines, or equivalent experience especially in large-scale Greenfield/brownfield infrastructure works in an urban environment. •

Desired	• Understanding or practical experience aligned with:
	  ○ ISO 19650 (BS1192, PAS 1192) information management principles
	  ○ AS 1100 drawing standards Certification in implementation of ISO19650, BS1192, or PAS 1192
	• Exposure to project or information management practices withing a digital delivery or digital engineering context.

Certifications / Licences

Required	• None
Desired	Certification or formal training related to:BIM or Digital Engineering delivery • Information management standards (e.g. ISO 19650) • Relevant Autodesk or equivalent BIM platforms

Experience

Required	• 5 minimum years Industry experience a design or digital engineering role within infrastructure or utilities. • Experience implementing Building Information Modelling (BIM) in design/and or delivery environments. • Demonstrated experience working within a BIM environment on infrastructure projects. • Demonstrated experience working in BIM authoring applications such as Revit, Civil 3D, AutoCAD Plant 3D. • Strong experience using BIM authoring tools such as Revit, Civil 3D, AutoCAD Plant 3D. • Experience working within Common Data Environments e.g. Forma Data Management (ACC). • Demonstrated ability to review, validate and coordinate BIM models and associated data. • Solid knowledge and experience in BIM technologies.
Desired	• Experience Managing data in Forma Data Management. • Understanding of, or experience in GIS, process piping (Mechanical) or structural systems. • Some experience or knowledge of reality capture, surveying and model to site workflows. • Understanding of data classification and tagging principles. • Exposure to BIM execution planning and information delivery requirements

	• Experience applying BIM to improve project efficiency, quality or asset outcomes • Water utilities industry experiences an advantage. • A demonstrated interest in digital engineering, BIM innovation and industry advancement

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Capabilities and Skills

The capability and skill requirements for this role are identified in the skills profile listed below. This is comprised of Enterprise Capabilities, that are essential for all roles and functional skills, which are specific to each role.

Click to Select Enterprise Capabilities.

Enterprise Capabilities (C-E)	
Capability	**Descriptor**
Accountability	Takes ownership of assigned tasks and deliverables, ensuring work is completed accurately, on time, and in accordance with agreed requirements. Works collaboratively with others to achieve shared outcomes.
Agility	Adapts effectively to changing priorities, project needs, and delivery approaches. Remains open to alternative viewpoints and new ways of working, and responds constructively to feedback.
Innovation	Applies practical problem-solving skills to improve BIM and digital engineering outcomes. Supports continuous improvement by suggesting enhancements to tools, workflows, and processes

Functional Skills

Skill	Priority	Essential or Desirable	Proficiency level
Building Information Modelling	1	Essential	Intermediate
Project Coordination	2	Essential	Intermediate
Troubleshooting (Problem Solving)	3	Essential	Intermediate
Engineering Design Process	4	Essential	Intermediate
Stakeholder Engagement	5	Essential	Intermediate
Project Risk Management	6	Essential	Intermediate
Business Writing	7	Essential	Intermediate
Interpersonal Communications	8	Essential	Intermediate
Systems Configuration	10	Desirable	Intermediate

Proficiency Level Descriptors

Developing - Building practical experience, needs continued coaching.

Intermediate - Independent execution, minimal guidance**.**

Advanced - Fully independent execution, coaches' others.

Mastery - Strategic, sought as expert internally and externally.

Additional notes

Sydney Water takes the safe provision of its services to the public and the protection of its information assets extremely seriously. As a Sydney Water employee, you are required to understand your obligations under the Acceptable Use of Information Technology Policy and how Sydney Water's Information Technology is to be used. You must also help keep your workplace secure by ensuring you do not enable non-authorised people access to sites, maintain the integrity of locked entries and exits, and where appropriate, alarms being engaged.

Sydney Water requires all users to embrace and adhere to all enterprise and protective security policies, awareness programs and frameworks for Sydney Water assets.