Position Description

Graduate Spatial Scientist

Business Unit: Water & Catchment Protection

Reporting to: Spatial Modelling Manager

Position Purpose

To develop high quality and timely spatial analysis products to be used in advanced analytical, computational and experimental water quality models in natural and engineered systems, for planning and operations; and put safety first.

Key Accountabilities

1. **Safety:** ensure all activities are undertaken with the safety of our people as the number one priority and always role model safe behaviour.
2. **Values:** behave and make decisions in accordance with the WaterNSW Values at all times.
3. Assist in the development, implementation and maintenance of spatial information systems to ensure that WaterNSW spatial systems are contemporary and robust.
4. Assist in the development, implementation and maintenance of detailed analytical systems to ensure that outcomes from the models are readily accessible.
5. Collaboratively work with team members in delivering outcomes within agreed timeframes.
6. Contribute to technical support in development and review of assigned technical/operations to support the successful completion of projects.
7. Undertake formal and on the job training and participate in structured placement activities to develop skills across a broad range of areas within the WaterNSW.

Key Challenges

- Turning abstract data and information into meaningful knowledge to facilitate the better understanding of the complexities of catchments, storages and transfer systems.
- Keeping informed of industry standards and technological developments to provide the best accurate value for money solutions and advice.
- Ability to work in a virtual rapidly changing environment, managing change throughout the business

Significant Internal Relationships

Stakeholder	Purpose of Relationship
Water Quality Modelling Team	• Closely collaborate with the team

Significant External Relationships

Stakeholder	Purpose of Relationship
N/A	•

Delegations, Financial Accountabilities & Freedom to Act

- As defined in the WaterNSW Financial Delegations as varied from time to time.

WaterNSW Leadership & Performance Competencies

People	Level	
Communicating with Influence	A	• Uses information, facts and figures to explain an idea or concept • Presents information in a clear and structured manner, both verbally and in writing, to ensure a positive response from the audience
Customer	**Level**	
Collaboration & Engagement with Customers and Stakeholders	A	• Builds effective and positive relationships with customers and stakeholders • Understands customer and stakeholder needs • Forms strong relationships with immediate networks to achieve results
Partnering & Advice	A	• Draws on own knowledge to provide basic advice to customers • Uses appropriate questioning techniques to understand the underlying issue for a customer

Business	Level	
Analysis & Problem Solving	A	• Finds and uses information from a variety of sources when solving problems • Diagnoses the root cause of a problem to ensure solutions are effective • Uses logic and common-sense principles to understand problems and identify solutions • Implements solutions within own work
Continuous Improvement	A	• Identifies everyday process improvements and ideas within each team and takes ownership to lead and implement • Adopts new ideas and approaches with positive attitude • Identifies wastes and implements practices to minimise these. • Has basic knowledge of continuous improvements tools and techniques
Planning & Delivering Results	A	• Completes work in a timely manner to expected standards • Identifies issues or roadblocks, looks to solve first and if needed advises upwards • Plans and organises work by drawing on necessary tools and resources • Monitors the progress of plans and deliverables • Identifies more critical and less critical activities; adjusts priorities when appropriate • Displays drive and a clear focus on achieving results

Mandatory Candidate Requirements

Qualifications:

- Be in your final year of study or have graduated recently in one of the following disciplines:
  - Bachelor of Science (Spatial)

- Bachelor of Engineering (Civil / Environmental/Computing)
- Environmental Science or equivalent

- Current NSW Drivers Licence

Mandatory Experience:

- Understanding and working knowledge of the Microsoft online platforms (e.g. OneDrive, Sharepoint, Teams)
- Experience in the of spatial information systems for scientific applications
- Experience working with or developing spatial datasets
- Ability to communicate complex catchment conditions to a range of audiences using Geographical Information Systems

Knowledge:

- Ability to work independent and be a self-starter
- Ability to work in a fully virtual team environment
- Genuine interest in environmental issues, water resources and modelling

Favourable Candidate Requirements

- Experience in working in a virtual team environment and independently when required
- Experience in undertaking research and analysis and in using appropriate technology
- Ability to communicate complex water resources outcomes to a range of audiences
- Post-graduate education / research in complementary field (such as Computing Engineering, Water Resources, Environmental Science, Data Analytics or Freshwater aquatic sciences, spatial sciences)
- Experience with ArcGIS desktop and ArcGIS online and other ESRI systems
- Relevant incident management experience.

Pre-Employment Checks Required

- Identification
- Qualifications
- Drivers Licence
- Pre-employment Medical
- Police Check