

Role Description

(Non-Manager)



Our purpose – Helping South Australians Conserve, Sustain and Prosper.

Role Title: Senior Climate Data Analyst – Coastal Hazards

Division: Biodiversity and Nature Economy

Classification Level: PO3

Branch/Unit: Biodiversity Science, Coasts and Information

CHRIS Position Number: P68663

Reports to (Title): Principal Advisor, Climate Science

About the Agency – [Department for Environment and Water](#)

About the Role

The Senior Climate Data Analyst – Coastal Hazards undertakes management and analysis of climate modelling data and provides professional advice and services to inform adaptation and hazard planning in South Australia. The role also develops and maintains strong partnerships within and outside the Agency to inform planning, implementation and evaluation of Departmental policy and programs that require climate data input. With a sound and broad understanding of climate and coastal science, the role delivers priority climate related coastal hazard projects and analyses.

Key Role Outcomes

- Environmental policy and coastal hazard management decisions are informed by robust and locally relevant data and data analysis.
- Coastal hazard and climate data analysis is undertaken in partnership with relevant internal and external stakeholders.
- High quality professional coastal management data advice and reports are provided to support the delivery of coastal hazard planning and associated outcomes.
- Corporate knowledge management outcomes are achieved by the provision of spatial and point data information products, specialist knowledge, documentation, metadata and reporting on the application of data, information systems and standards.
- Agreed work programs are planned, delivered and implemented in a manner that is timely, efficient, collaborative and fit-for-purpose.
- Team and organisational goals are achieved through the provision of quality professional services in accordance with established frameworks and approaches.

Essential Criteria (including qualifications)

[Must be addressed by candidates in written application letter (max 3 pages) in addition to CV unless advertisement advises otherwise]

- A Degree in natural science, computer science, GIS, or engineering disciplines that include climate change or coastal processes is essential.
- High level skills in the collation, management and analysis of large datasets, and in quantitative modelling to inform coastal management and decision making.

- High level skills and experience in the use of statistical analysis and modelling tools, high proficiency in coding in Python and familiarity with other coding languages (e.g. R or Julia).
 - Demonstrated high level of knowledge and experience in the use of GIS software with emphasis on Arc GIS Pro.
 - A track record of timely delivery, underpinned by in-depth experience in project management/coordination.
 - A proven track record in developing and maintaining strong partnerships and collaborations with diverse stakeholders.
 - Demonstrates strong communication skills (verbal and written) in an applied science setting.
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Desirable Criteria

- In-depth knowledge and experience in the provision of fit-for-purpose, collaborative and applied science that supports the planning, delivery and evaluation of climate and coastal management programs and projects.
 - Experience analysing large and complex datasets to identify climate patterns, hazards, and trends.
 - Experience contributing to the development of coastal climate-related policies, programs, and strategic initiatives.
 - Experience in analysis of remote sensing data.
 - Experience in AI modelling, encompassing deep learning, large language models and complementary analytical tools for visual, spatial or point-based data.
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Key Relationships/Interactions

- Project management and oversight is provided by the Principal Advisor Climate Science and a close working relationship with the Principal Advisor, Climate Data Analyst and staff assigned by the Manager, Coasts.
 - Establishes and maintains close working relationships with Principal Advisors, other modelling/data scientists, geospatial and environmental data and information staff and relevant stakeholders within DEW.
 - Establishes and maintains close working relationships with staff from other relevant federal and state government agencies, local government, and research institutions.
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Special Conditions

- May be required to participate in responses to state emergencies or associated duties.
- You must be an Australian citizen, permanent resident, or provide evidence that you hold a valid working visa that allows you to work in Australia without restrictions.
- Prior to being employed, the successful candidate will be required to provide a valid Nationally Coordinated Criminal History Check (NCCHC), which is required to be renewed every three years. DEW will cover the cost of renewal.
- May be required to undertake intra or interstate travel, occasional overnight absences, and work outside of the normal hours of work.

Core Competencies	Elements	Behavioural Indicators
Shapes Strategic Thinking and changes	<ul style="list-style-type: none"> • Thinks and Acts Strategically 	<ul style="list-style-type: none"> • Makes strategic judgments and presents options based on implications of analytical thinking.
Achieves Results	<ul style="list-style-type: none"> • Delivering Effective Outcomes • Makes decisions 	<ul style="list-style-type: none"> • Sets priorities for self and manages workflow in order to achieve outcomes on time. • Evaluates impact and consequences of taking a particular course of action, taking into account stakeholder concerns as well as the impact across the Agency.
Drives Business Excellence	<ul style="list-style-type: none"> • Facilitating Quality and Continuous Improvement 	<ul style="list-style-type: none"> • Recognises problems as opportunities for improvement and facilitates discussion and/or development of processes to address these.
Forges Relationships and Engages Others	<ul style="list-style-type: none"> • Establishing and Maintaining Networks • Communicating and managing Conflict 	<ul style="list-style-type: none"> • Builds collaborative relationships based on an understanding of stakeholder priorities/objectives. • Clearly communicates own perspective frankly and diplomatically on an issue.
Exemplifies Personal Drive and Professionalism	<ul style="list-style-type: none"> • Displaying Flexibility and Resilience • Demonstrating Commitment to Learning and Development 	<ul style="list-style-type: none"> • Engages positively with ambiguous situations and demonstrates flexibility in thinking. • Balances competing demands in a calm manner. • Keeps up to date with relevant trends/developments. • Extends own knowledge base through a range of mechanisms suited to their learning style.

Work Health and Safety

Participate in workplace safety procedures and programs

- Leads and/or participates in health and safety discussions in the workplace.
- Identifies hazards, assesses risks and implements procedures for controlling risks.
- Provides workplace safety information and advice where relevant.
- Applies procedures for dealing with incidents and emergency events as required.

Corporate Responsibilities

- Demonstrate appropriate and professional workplace behaviours that are in line with the [Code of Ethics](#) and the [South Australian Public Sector Values](#).
- Maintain a commitment to Equal Employment Opportunity, Diversity, Ethical Conduct, and record keeping within legislative requirements, according to the principles of the *Public Sector Act 2009*.
- Exhibit and promote the behaviours in line with *The way we work* outlined in the [DEW Corporate Plan](#).
- Actively participate in the Department's Performance Review and Development Program.

- Demonstrate appropriate and professional workplace behaviours that align closely with the White Ribbon message.
- Champion positive behaviours and conduct during all interactions with children and young people always adhering to the Child Safe Environment Policy and Procedure & Guideline.

Date Delegate approved original classification:	1/5/2026	Original Class method:	Comparison
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