Role Description

General information

Title:	Senior GIS Officer - H5 Bird Flu Response			**Classification:**	ASO6
Division:	Corporate Services	**Branch:**	Information & Communication Technology	**Business Unit:**	Risk, Security & information Governance
Type of Appointment:	to 30 November 2027	**Hours of Duty:**	37.5 hours per week	**Location:**	Adelaide, CBD and Netley

About us

South Australia is internationally recognised for the quality of its agriculture, food and wine. Our regions are the backbone of our state and the economic powerhouse that drives prosperity for all South Australians.
The Department of Primary Industries and Regions (PIRSA) is a key economic development agency working in partnership with our primary industries, regional stakeholders and across all levels of government to advance the prosperity and sustainability of South Australia's primary industries and regional communities.
We are a passionate team of around 800 people working across metropolitan and regional South Australia to develop and protect our state's regions and food, wine, aquaculture, fisheries, forestry, grains, livestock, dairy and horticulture industries.

Purpose

The primary purpose of the Senior GIS Officer is to provide quality geospatial outputs and solutions for PIRSA's H5 Bird Flu Response. The GIS Analyst operates within a multi-disciplinary environment to provide geospatial outputs from established routine workflows and identify and define requirements and solutions to new geospatial requests. The role works closely with H5 Bird Flu Program Planning Manager and the Corporate Division GIS Lead as an integral part of the H5 Bird Flu Response Program utilising advanced skills in geospatial data design, capture, maintenance, modelling, analytics and presentation. The role scopes requirements and selects and applies methodologies to develop fit for purpose solutions. The GIS Analyst also provides technical advice to the H5 Bird Flu Response Program team and ongoing improvement of GIS workflows and processes.

The GIS Analyst has a thorough understanding of the principles of Geographic Information Systems theory and practice, with considerable hands-on experience and possesses the ability to develop an understanding of the client's business to facilitate the delivery of effective solutions and services.

The role contributes to delivering the agency's priorities including:

- Securing production through biosecurity and efficient and sustainable use of resources
- Managing adverse events effectively and helping primary industries and communities improve preparedness, resilience and recover well
- Regulatory excellence and reforms of our legislative framework and programs to drive efficiency, effectiveness and unlock potential.

The role contributes to agency objectives through the application of geospatial technologies to enable timely, rigorous and defensible decision making for PIRSA'S H5 Bird Flu Response and its stakeholders.

Key Accountabilities

- Geospatial advice and customer centric services are delivered for analysis, models, automated tasks and outputs, including identifying, defining and scoping client requirements and obtaining and analysing data and information from a range of sources.
- Technical work packages and geospatial products are planned, coordinated and executed to client expectations including undertaking geospatial analytics to support and inform the H5 Bird Flu Response and escalating complex matters and unique requests to the Planning Lead.
- Advice and expert contribution is provided to the development and improvement of technical elements for complex geospatial requests.
- Guidance for enterprise GIS systems, data governance and information management practices are provided, ensuring spatial data investments are sustainable, well-managed and aligned with
- Software tools are developed, utilised and updated to simplify and automate repetitive tasks, improve workflows and promote continuous improvement in practices, standards and outputs.
- Systems and processes are developed, implemented and monitored to ensure the integrity and defensibility of key authoritative data and analysis that informs decision making at all levels.
- End user, technical documentation and guidelines are developed, maintained and published with training and guidance provided to customers in the interpretation, application and use of tools and outputs.
- Effective working relationships are established and maintained with H5 Bird Flu Response clients and stakeholders to support seamless service delivery and high levels of customer and stakeholder satisfaction.

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business outcomes throughout the information lifecycle and in collaboration with the Corporate Division's GIS Lead.

Key Deliverables / Results

- High-quality geospatial outputs, expertise and advice is provided to PIRSA's H5 Bird Flu Response, enabling the program to effectively meet business needs.
- Fit for purpose approaches and solutions are identified, researched, tested and deployed to both internal and external stakeholders, that are sustainable and able to be effectively managed with existing resources.
- Clients are supported and assisted to ensure a proper understanding of results and use of related tools such as dashboards.
- Software tools that simplify or automate repetitive tasks and improve workflows are identified and developed, including scheduled (nightly) scripts, creating ETL workflows, system integrations and data maintenance routines within an enterprise environment.
- Geospatial data and outputs that support decision making are designed, captured, maintained and published.
- Analytical results are clearly articulated, including any apparent limitations, to the client.

Relationships

- Role reports to the Planning Manager, H5 Bird Flu Program.
- Works closely with the H5 Bird Flu Program management team.
- Works closely with the GIS Team Lead and broader PIRSA Spatial Team.
- Liaises with internal and external clients in the H5 Bird Flu Program.
- Liaises with data authorities within the public sector.

Requirements

- Out of hours work and inter / intrastate travel may be required.
- You acknowledge your work, health and safety obligations and our expectations when applying for a role.
- Australian residency or current works permit is required (responsibility of applicant to provide evidence of a current work permit).
- The incumbent will be required to undertake emergency management training and must be willing to participate in emergency preparedness, response and recovery activities required by government agencies.
- Upholding the ethical behavior and professional integrity standards as contained in the Public Sector Act, 2009.
- Participating in PIRSA's Performance Management and Development Program.

Qualifications

- Essential: a tertiary qualification in a spatial science or information technology discipline such as spatial information systems, earth science, environmental science or surveying; or extensive relevant industry experience.
- Desirable: Skills and experience working in an emergency response environment.

Capabilities

Capability	Behaviours
Professional & Technical Knowledge	• Has an in-depth knowledge of contemporary Geographic Information Systems (GIS), digital mapping techniques, geodesy, coordinate systems, data manipulation, mobile GIS and geo-analytics and related tools including the ESRI ArcGIS product suite, particularly ArcGIS Pro. • Demonstrates sound knowledge and practical experience using enterprise GIS software, and online web mapping applications and dashboards to develop, maintain and publish spatial data and mapping products. • Demonstrates sound knowledge of, and experience in, data and workflow automation, including developing and maintaining software tools and workflows such as scheduled (nightly) scripts, creating ETL workflows, system integrations and data maintenance routines within an enterprise environment. • Demonstrated skills and experience in Python programming language and ESRI Model Builder

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	• Experience and knowledge using the State's land administration system and its fundamental information sets. • Demonstrated experience in undertaking the preparation, technical execution and delivery of customer centric geospatial products that deliver quality geospatial solutions, models, tools and outputs. This includes identifying analytical requirements, collating geospatial data and information from a range of sources and delivering training and guidance to clients in the application of outputs and the use of tools. • Demonstrated experience in managing tasks and workflows in ArcGIS software and related new technologies and keeping abreast of changes to systems and processes. • Ability to work both independently and as part of a team, under limited direction to set priorities and plan and schedule complex geospatial work to manage own workload to achieve effective results in a context of competing priorities and expectations. • Demonstrated technical ability to select geospatial and spatiotemporal methods and techniques based on sound judgement to plan and deliver geospatial analytics and solutions and provide advice and recommendations to support the achievement of PIRSA's H5 Bird Flu Response program outcomes. • Well-developed interpersonal, written and verbal communication skills to liaise effectively with people at all levels, foster the cooperation and support of clients, and prepare sound geospatial analytics, outputs, tools and reports.
Consultancy (CNSL 5)	• Takes responsibility for understanding client requirements, collecting data, delivering analysis and problem resolution. • Identifies, evaluates and recommends options, implementing if required. • Seeks to fully address client needs, enhancing the capabilities and effectiveness of client personnel, by ensuring that proposed solutions are properly understood and appropriately exploited. • Escalates complex matters and unique requests to the Planning Manager role.
Analytics (INAN 5)	• Evaluates the need for analytics, assesses the problems to be solved and what internal or external data sources to use or acquire. • Specifies and applies appropriate mathematical, statistical, predictive modelling or machine-learning techniques to analyse data, generate insights, create value and support decision-making. • Initiates, develops and undertakes appropriate analytical procedures in GIS developing workflows and processes to a high standard to deliver outputs and products responsive to client needs. • Sizes up information; uses logic to evaluate and draw sound conclusions; assimilates and analyses information that is high volume and complex. Manages reviews the benefits and value of analytical techniques and tools and recommends improvements. • Contributes to the development of analytics standards and guidelines.
Data visualisation (VISL 5)	• Establishes the purpose and parameters of the data visualization to achieve a very high cartographic standard. • Provides overall control, to ensure appropriate use of data visualization tools and techniques. • Formats and communicates results, using textual, numeric, graphical and other visualisation methods appropriate to the target audience. • Advises on appropriate use of data visualisation for different purposes and contexts to enable requirements to be satisfied. • Develops plans and workflows showing how the identified user needs will be met. • Uses initiative and creativity to provide visualisation of a range of geospatial, spatiotemporal and decision support products in an effective way which is easily translatable by the client. • Supports the exploration, experimentation and development of new approaches for data visualization using the latest approaches and technologies.

HRMS No:	TBA	**ANZCO Code:**	232214	**Objective ID:**	
Delegate Approval:	Executive Director, Biosecurity			**Date:**	
Approved and Classified by People and Culture:	Senior HR Business Partner, Biosecurity				

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