



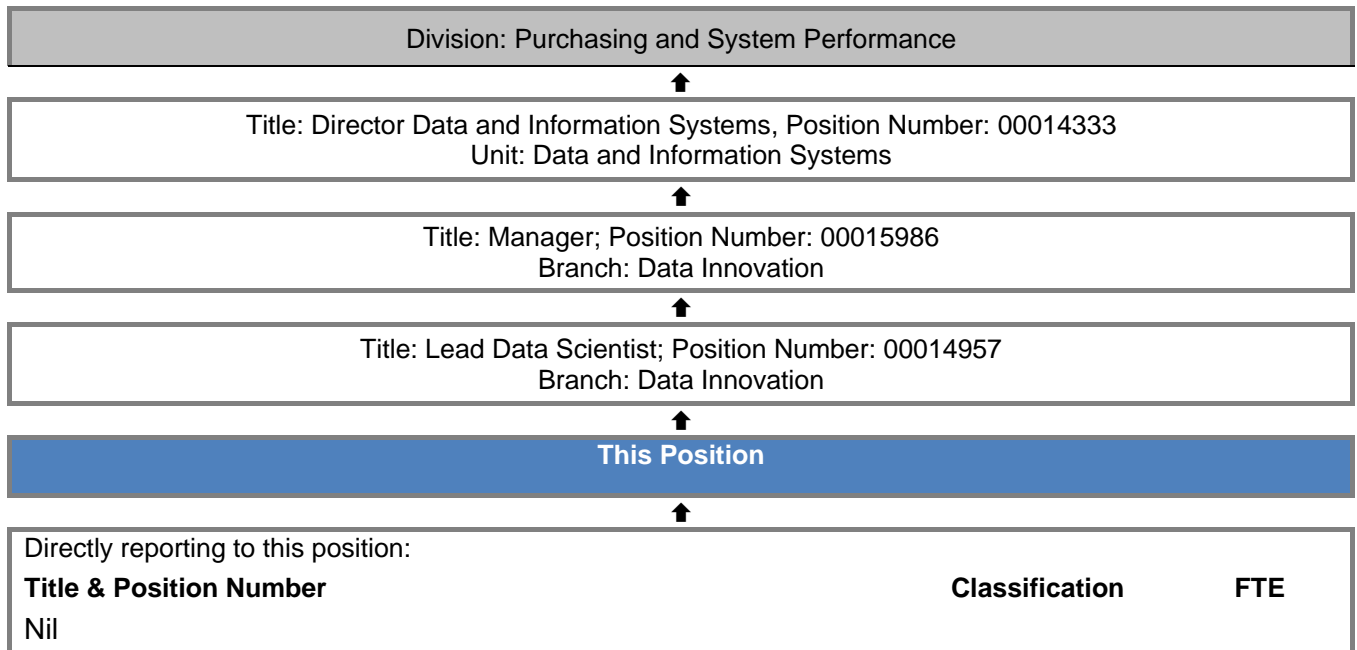
## POSITION DESCRIPTION

<b>Position Number</b>	00021184
<b>Position Title</b>	Senior Data Scientist
<b>Classification</b>	PSO Level 6
<b>Division</b>	Purchasing and System Performance
<b>Directorate</b>	Information and System Performance
<b>Unit</b>	Data and Information Systems
<b>Position Status</b>	Fixed Term Full Time
<b>Award</b>	Public Sector CSA Agreement
<b>Site Location</b>	East Perth

## ORGANISATIONAL ENVIRONMENT

<b>Our Vision</b>	A WA health system that delivers safe, high quality and sustainable services that support and improve the health of all West Australians.
<b>Our Mission</b>	To lead and steward the WA health system.
<b>Our Values</b>	Purposeful, Caring, Collaborative, Open, Outcome-focused

## REPORTING RELATIONSHIPS



## KEY RESPONSIBILITIES

The Senior Data Scientist will undertake the design and development of data-driven and machine learning applications for the directorate. The position will participate in projects, provide technical advice on statistical analysis, data manipulation and machine learning techniques in the design and execution of data science applications.

## BRIEF SUMMARY OF DUTIES

*This section outlines the results and outcomes required of an individual in this position.*

**Employees are required to undertake all duties and responsibilities in accordance with Department of Health WA Code of Conduct, Policies/Procedures and relevant legislation.**

### Role-Specific Responsibilities

Participates in projects and provide technical advice on the design and execution of machine learning products to support the consistent delivery and adoption of Data and Information Solutions.

Contributes to the development and delivery of machine learning based scripts, code and applications that enable the System Manager to oversee all aspects of health service performance. This includes designing conceptual approaches utilising data science techniques, building and testing machine learning algorithms, researching and employing machine learning algorithms, data preparation, and combining these approaches into pipelines, automation and applications.

Ensures scripts and machine learning algorithms are appropriate, accurate, efficient and secure by understanding and leveraging business requirements, customer feedback, usage metrics, and usability findings. Uses statistical techniques to strengthen consistency and ensures all application development is scalable and software is reliable. Performs metrics analysis post-launch to optimise statistical, pipeline and automation efforts.

Undertakes research into new technologies and methods of using statistical analysis, machine learning and data science (including linked data).

Collaborates with internal teams to define reference architectures and operational processes that will enable globally consistent operation of data and statistical applications and processes (including those on-premises, hybrid and cloud-based applications).

Assists in preparing technology environments, deliverables and data science related communications for all changes to Data and Information technologies that will be consumed by stakeholders.

Issues routine communications regarding maintenance releases, patches and version migrations across the data and information portfolio.

### Analysis, Management and Reporting

Ensures information provided to clients is robust, accurate and available in a timely manner.

Provides advice to the Manager, Lead Data Scientist and key internal and external stakeholders as required.

Provides advice and supports work on the use of data repositories, statistical techniques, algorithms, data science environments and data manipulation techniques, driving the development of innovative information dissemination/reporting solutions including synthetic data approaches that utilise a range

of emergent technologies and enable predictive, evidence-based decision making at all levels of the organisation.

### **Leadership**

Champions efforts for continuous improvement in systems functions.

### **Liaison, Representation and Stakeholder Development**

Builds and maintains effective working relationships with key internal and external stakeholders in order to maintain business knowledge, understand prioritisations and effectively liaise, consult, negotiate and collaborate to achieve these.

Contributes to effective consultation processes with stakeholders across the WA health system to ensure Department of Health data collections meet System Manager requirements and reform initiatives.

Interacts with and assists Data Innovation and Data Engineering team members on design of data management systems and best practices.

Participates in and/or supports working parties and project teams involved with associated projects.

### **Corporate Responsibilities**

Supports an environment of customer focus, excellence in delivery, high performance, and accountability within a team environment that values and recognises the contribution of all members.

Complies with corporate policies and procedures and models expected behaviours aligned with both departmental and broader public sector Codes of Conduct and legislative requirements.

Undertakes other duties as required.

## WORK RELATED REQUIREMENTS

Applicants should demonstrate their capacity to meet the following criteria which should be read in conjunction with the specific responsibilities of this role.

### Essential Selection Criteria

1. Demonstrated significant and current experience in analysis of data using data science techniques and use of contemporary data science languages and infrastructure.
2. Ability to work in a team and promote an effective collaborative working environment.
3. Well-developed interpersonal, communication and negotiation skills to influence people and to establish and maintain positive working relationships to achieve outcomes.
4. Demonstrated conceptual, analytical and problem solving ability within a complex and evolving technology and business environment.

### Desirable Selection Criteria

- Possession of Tertiary qualification in a relevant discipline
- Knowledge and experience in data science languages, such as R, Python and SQL

### Appointment Factors

- Provision of the minimum identity proofing requirements.
- Successful Criminal Record Screening Clearance.
- Successful Pre-Employment Integrity check.

## CERTIFICATION

The details contained in this document are an accurate statement of the duties, responsibilities and other requirements of the position.

Manager/Supervisor	Director/Division Head
NAME:	NAME:
SIGNATURE:	SIGNATURE:
DATE:	DATE: