



Data Scientist

POSITION DESCRIPTION FORM

Region / Portfolio:

State Intelligence and Command

Directorate / Command / District / Division:

Data Science and Analytics

Work Unit:

Data Science

Position Description Number:

Generic 638

Level:

Level 5

Employment Conditions

Industrial Agreement/Award: Current PSA, PSCSAA and if applicable Agency Specific Agreement

Work Pattern: Monday – Friday (Day Work): May be required to work outside normal operating hours

Location: Perth

Position Objective

Develops, implements and coordinates data science services across a variety of different business areas to support operational and tactical outcomes for the Western Australia Police Force. Develops and maintains quantitative models based on business needs, employs machine learning models and advanced analytics to help solve crime faster and keep the community safe.

Role of Work Unit

The Data Science Unit (DS) is responsible for employing data science techniques and implementing tools and analysis to support operational and tactical outcomes of the WA Police Force.

The DS provide the following services:

- Enhances current data related capabilities with data science techniques and tools
- Produces operational tools which use data and information to enhance intelligence capabilities, provide the ability to solve crime faster and contribute to community and officer safety.

Reporting Relationships

This position reports to:

- Data Science Manager, L7

Direct reports to this position include:

- Nil

Total number of positions under control: Nil

Key Accountabilities

1 Data Science (70%)

- 1.1 Develops, implements and coordinates data science services to support operational and tactical outcomes.
- 1.2 Builds and maintains data driven solutions that allow the agency to solve crime faster and keep the community safe, includes advanced analytics, algorithms and machine learning models.
- 1.3 Collaborates and works cross-functionally to define problem statements, collects data and builds analytical models.
- 1.4 Integrates machine learning models into applications using contemporary environments, technologies and approaches.
- 1.5 Explores and learns the latest languages and technologies to provide new capabilities and increase efficiencies and to advance ongoing reporting and analysis processes, automation or simplification of self-service support for users.
- 1.6 Contributes to the ethical use of data science capabilities and maintains open and transparent data science practices within the agency.
- 1.7 Documents methodologies used to solve business problems and the introduction of best practice approaches.
- 1.8 Contributes to the development and maintenance of project methodologies, processes and tools to support project management practices.

2 Advice, Consultancy and Corporate Engagement (25%)

- 2.1 Negotiates and consults at a technical level in relation to data science processes, initiatives and outcomes.
- 2.2 Provides advice and direction on data science, machine learning and Natural Language Processing (NLP) techniques.
- 2.3 Contributes to the development of innovative information dissemination/reporting solutions that utilise a range of emergent technologies and enable predictive, data driven decision making at all levels of the agency.
- 2.4 Contributes to technical briefings, reports, and guidelines for the agency.
- 2.5 Participates in meetings and workshops, provides timely and accurate advice and attends to general and complex inquiries from personnel throughout the agency.
- 2.6 Researches data science issues, and local, national and international developments and trends.

3 Other (5%)

- 3.1 Understands and complies with information security policies and procedures to ensure information holdings/systems are kept confidential and utilised accurately and reliably.
- 3.2 Demonstrates and advocates a high level of ethics and integrity in accordance with the agency's professional standards and Code of Conduct including reporting wrongdoing.
- 3.3 Undertakes other duties as directed.

Position Title: Data Scientist	Level: Level 5	Position Number: Generic 638
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Specialist Prerequisite(s)

It is a requirement that the position holder is:

- An Australian Citizen prior to the completion of the selection process
- Successful in obtaining and maintaining a **NEGATIVE VETTING LEVEL 2** security clearance for the duration of their appointment in the position.

Work Related Requirements

Essential

Context in which work related requirements will be applied and or general standard expected.

Knowledge of descriptive and predictive analytics

Implementing data science practices and techniques. Developing advanced data analytics practices. Building models or complex algorithms and implementing tools to meet operational and tactical needs.

Conceptual and analytical skills

Conceptualising and analysing trends, patterns, and issues to provide advice and evidence-based recommendations. Developing solutions to highly complex problems requiring an understanding of data science techniques.

Communication and interpersonal skills

Establishing, developing and maintaining relationships and partnerships with key internal and external stakeholders at all levels. Presenting issues effectively and negotiating and influencing outcomes.

Knowledge in the use of computers and software packages for data analysis

Employing contemporary coding languages, technologies and development methodologies. Creating production ready data science models using a variety of programming languages (e.g. Structured Query Language (SQL), Python, R, cypher).

Desirable

Possession of, or progression towards, a relevant tertiary qualification

Computer/Data Science, Business Analytics.

Capability Framework

The framework is intended to support staff and supervisors through the performance cycle and identify core competencies relevant to the rank and/or classification level.

Leadership Context

We believe all our people are leaders irrespective of their role. We consider this as critical to our success and, to support this, we have adopted [Leadership Expectations](#) which provides a common understanding of the mindsets and expected behaviours required of all our employees and the public sector.

The leadership context for this role is **Leading Others**.

Certification

These details are an accurate statement of the duties, responsibilities and other requirements of the position.

Position Title and Work Unit	Name	Date
Organisational Design Officer Organisational Design and Analysis	Julie Norrish	19/02/2025 BLI
Assistant Director Data Science and Analytics	Janelle Baily	27/02/2025