Data Analyst

Position Detail			
Reports To	Network Performance & Analysis Manager	**Group**	ATM Network Performance & Analysis
Classification	ASA 5	**Location**	Canberra
Reports – Direct Total	0		

Organisational Environment

Airservices is a government owned organisation providing safe, secure, efficient and environmentally responsible Air Traffic Management (ATM) and Fire and Rescue services to the aviation industry.

Each year we manage over four million aircraft movements carrying more than 156 million passengers, and provide air navigation services across 11 per cent of the world's airspace.

Airservices has two major operating centres, in Melbourne and Brisbane, and a corporate office in Canberra. We operate 29 air traffic control towers at international and regional airports, and provide aviation rescue firefighting services at 26 Australian airports.

We are committed to continuing to improve our business by providing our customers with services they value, and embedding new ways of working and technology investments to further innovate and optimise.

The ATM Network Performance & Analysis Unit is responsible for delivering actionable intelligence to the business. In order to do this we utilise a wide range of methodologies such as: handling and querying large spatial and temporal data sets; analysing and / or simulating complex problems using numerical analysis, mathematics, statistics, machine learning; data visualisation; simulations (Monte Carlo, probability based, agent-based, physical models); and, programming (Python, SQL).

Primary Purpose of Position

As a Data Analyst you will play a key role in responding to data and analysis requests by internal and external customers. You are also expected to assist with the development of new methodologies to evaluate business and industry performance, identification of improvement opportunities and assessment of the impact of proposed business initiatives.

The Data Analyst works closely with the NP&A high-performing team of data scientists, modellers and analysts. The role will suit a person who enjoys extracting and analysing complex data, undertaking modelling & analysis studies, developing analysis methods and business performance metrics, and producing effective reports to present modelling/analysis results to internal and external audiences.

The Data Analyst is expected to apply their expertise to complex data, and draw from relevant experience to support and improve outcomes for Airservices and its customers. The role also requires good interpersonal and communications skills. The incumbent is expected to develop and maintain effective working relationships, and enjoy innovating, learning new skills and adapting to a variety of challenges.

Accountabilities and Responsibilities

Position Specific

- Undertake modelling and analysis projects and carry out associated tasks in collaboration with, or under the guidance of, more senior Research Scientists/Engineers.
- Apply knowledge to develop methods and techniques for the analysis of data; draw insights to evaluate options and concepts.

Planning/Scheduling

- Assume responsibility for the completion of assigned tasks and projects within NP&A.
- Provide timely communication of task progress and relevant information/deliverables to the Unit and customers.

People

- Maintain an effective working relationship with Airservices leadership to ensure that there is effective co-ordination of all activities in support of organisational objectives.
- Support the administration of the Network Performance & Analysis unit.
- Maintaining good relationships with internal and external stakeholders.

Safety

- Demonstrate safety behaviours consistent with enterprise strategies.
- Embrace and promote a positive culture within the workplace.

Key Performance Indicators

Efficient, Effective and Accountable

- Accurate, timely and comprehensive outputs.
- Demonstrated initiative in development of analysis methodologies and approaches.

Commercial

- Responsible data management ensuring that controls and precautions are taken when handling data.

People

- Effective communication with stakeholders and team members.
- Capability improvement.

Safety

- Compliance with regulatory standards.
- Compliance with safety, risk, environmental and any other standards.

Key Relationships

As the Data Analyst:

- NP&A Manager and team leaders – inform and assist with group requirements,
- NP&A data scientists and analysts – collaborate and assist with data analysis tasks and projects.
- Internal stakeholders – Liaise and collaborate with other Business Units as appropriate to progress work and communicate results.
- External - Liaise and collaborate with customers as appropriate to progress work and communicate results.

Skills and Competencies

- A minimum of tertiary level qualifications in data science, statistics, machine learning, mathematics, or a closely related discipline.
- A minimum of two years professional experience in a similar role, or a Masters qualification with experience in the analysis of complex data.

- Demonstrated experience and skills in one or more of the following fields: data science, numerical analysis, machine learning, statistics, or mathematics.
- Experience in one or more of the following programming languages: Python, Matlab, C, R, Java or an equivalent language.
- SQL knowledge and experience working with relational databases (including PostgreSQL).
- Experience managing workload & priorities, and delivering outcomes within agreed timeframes.
- Demonstrated ability to work collaboratively as part of a small, multi-disciplinary technical team.
- Demonstrated experience in researching and acquiring new knowledge and expertise
- Ability to write reports and communicate with technical and non-technical audiences.

Performance Standards and Behaviours

As a member of Airservices, you will consistently demonstrate performance standards and behaviours that meet Airservices Code of Conduct.

This includes:

- treating everyone with dignity, respect and courtesy,
- acting with honesty and integrity,
- acting ethically and with care and diligence,
- complying with all Airservices' policies and procedures, and applicable Australian laws,
- disclosing and taking reasonable steps to avoid any actual, potential or perceived conflict of interest,
- behaving in a way that upholds our vision, mission and values, and promotes the good reputation of Airservices.