

Senior SESA Engineer

Position Detail			
Reports To	Technical Transition Manger	Group	Service Delivery
Classification	TPB3C (Base \$177,000+)	Location	Melbourne, Sydney, Brisbane
Reports – Direct Total	Nil	Term	2 Years Fixed Term

Organisational Environment

Airservices is a government-owned organisation providing safe, secure, efficient, and environmentally responsible 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 towers at international and regional airports and provide aviation rescue fire-fighting services at 27 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 Western Sydney International Airport (WSIA) Change Program is responsible for the planning, development, and implementation of Airservices' service delivery expansion at WSIA. The WSIA Change Program is delivering various aspects of Airservices' capabilities to enable WSIA to open in 2026: Digital Aerodrome Systems (DAS) (including initial DAS capability at Canberra), Airfield Systems (AS), Aviation Rescue and Fire Fighting Services (ARFFS), and Airspace change.

The WSIA Change Program engineering response is a complex framework of roles and responsibilities spanning multiple engineering domains and specialities. These include several aviation and air traffic domains, such as tower, airport surface, aeronautical information, as well as fire control; many operational systems, such as Tower Control and Fire Control systems, voice communications systems, and monitor and control systems; and various specialty domains, such as Safety Management, Human Factors, Networks and Integration, and Verification and Validation (V&V).

Primary Purpose of Position

As Senior SESA Engineer, you will be the lead in all Systems Engineering and Engineering Assurance activities. The role will support the program engineering technical authority in all aspects of SESA. Key responsibilities include development, update and implementation of SEMP's, conduct requirements

traceability analysis, manage configuration baseline and change, support the development of safety case, V&V, commissioning and O&M readiness activities.

Accountabilities and Responsibilities

Position Specific

- Perform systems engineering tasks in accordance with the Airservices' Technology Management Framework (TMF) and other relevant processes, policies and guidelines.
- Develop, update and implement SEMP
- Safety assurance planning and reports
- Configuration Management Plan and managing configuration baseline
- Engineering assurance activities and reports
- Requirements development and management
- Hazard identification and analysis
- Safety Risk assessment and management (Qualitative & Quantitative approach)
- Management of Project Hazard Logs and Safety Risk Registers
- ALARP/SFAIRP argument development
- Development of safety arguments and safety cases
- Requirements Capture Verification and Validation
- ISO15288

People

- Maintain an effective working relationship with other Airservices staff to ensure there is effective coordination of all activities in support of organisational objectives
- Work within the WSIA team and wider BAU teams to achieve require outcome of the program

Compliance, Systems and Reporting

- Adhere to Airservices technology management framework, procedures and policies.
- Adhere to Airservices security and information management policies and guidelines.
- Solution architecture and system designs and specifications conform to operational, statutory authority requirements and relevant Australian, international and ICAO.

Safety

- Demonstrate safety behaviours consistent with enterprise strategies.
- Comply with Airservices WH&S, Safety & Risk Management processes, policies & guidelines.
- Participate in or contribute to hazard reviews, assessments and safety reports,

Key Performance Indicators

Efficient, Effective and Accountable

- Effective time management and work prioritisation based on the significance and criticality of tasks undertaken.

Safety

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

Key Relationships

Reports to

- Technical Transition Manger / Engineering Senior Advisor

Collaborates with

- WSIA Change Program Design Acceptance Representative(s) (DARs)
- WSIA Change Program Operations Authority
- WSIA sub-program Program and Project Managers
- Airservices technology and engineering team
- Stakeholder and Vendor engineering team

Skills, Competencies and Qualifications

- **Essential:** Holds at least a tertiary engineering qualification that is accredited by Engineers Australia.
- **Essential:** CPEng, NER and CAMA
- **Preferable:** Experience in Systems Engineering and Engineering Assurance work in asset intensive industry and projects such as Rail, Oil & Gas.
- **Essential:** As experience in Speciality Engineering, has at least 3 years experiences in leading position in at least 4 of the following areas:
 - ISO15288
 - ISO 55001
 - Configuration Management
 - Engineering Management System
 - Engineering Assurance Experience
 - Requirements Traceability
 - V&V
 - SEMP

Performance Standards and Behaviours

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