

Role Statement

Sports Engineer

Classification Level:	PO2	Agency:	Office for Recreation, Sport and Racing
Position Number:	P69239	Division:	South Australian Sports Institute
Direct Reports:	0	Business Unit:	Australian Centre for Sports Aerodynamics
ANZSCO Code:	2339	Reports to:	Senior Manager, High Performance
Date Updated:	Jul 2026	Location:	Mile End

Organisation Overview

The Office for Recreation, Sport and Racing (ORSR) is the lead South Australian Government agency for sport, active recreation and racing. ORSR supports sport and recreation organisations, local government, and the community by providing leadership and support through the development and delivery of funding, policy, programs, infrastructure planning and management, and high-performance pathways.

Division

The **South Australian Sports Institute (SASI)** is the High Performance Sports hub in South Australia. Its purpose is empowering people to achieve their sporting dreams and inspiring South Australians. SASI does this by:

- Providing the highest quality daily training environment, including embracing leading-edge technologies to optimise the performance of its people, programs, projects and partners.
- Optimising national representation and medal success on the world stage for South Australian-based athletes and teams.
- Pursuing excellence in practice, services and culture.
- Developing sustainable talent pathways for athletes and coaches.
- Enhancing the community's engagement with SASI.

The **SASI Para Unit** plays a central role in Australia's broader Para Sport Uplift strategy, which is focused on increasing opportunities for people with disability and strengthening high-performance pathways to the Paralympic Games - particularly in the lead-up to Paris 2028 and Brisbane 2032. The Unit is dedicated to identifying emerging talent and providing athletes with access to world-class support. This includes guiding individuals from initial discovery and development through to sustained high-performance preparation, ensuring they are equipped to compete successfully at the Paralympic level.



The **Australian Centre for Sports Aerodynamics (ACSA)** is a state-of-the-art, low speed, open-jet, open-return wind tunnel created to deliver world's best sports aerodynamic testing, analysis, service and science. The ASCA is a SASI facility and program with significant investment from the Australian Institute of Sport. This nationally focused facility has been designed and constructed to support the objectives of high-performance sport in Australia prioritising performance success at Olympic, Paralympic and Commonwealth Games.

Role Overview

This role provides practical engineering support across SASI, and predominantly in the SASI Para Unit program and the Australian Centre for Sports Aerodynamics (ACSA). It combines engineering design with hands-on technician responsibilities. The focus is on developing, building, and implementing athlete-specific solutions, while supporting the technical operation and reliability of key performance infrastructure, including the wind tunnel. The engineer works closely with athletes, coaches, and performance staff to translate performance challenges into effective, usable outcomes.

Key Outcomes of the Role

Engineering Design and Solutions

- Develop practical solutions to athlete equipment and performance challenges.
- Design, modify, and optimise sport-specific equipment using sound engineering principles.
- Where useful, model or assess solutions before implementation.

Fabrication and Implementation

- Build, modify, and assemble equipment using a range of materials and methods.
- Convert concepts into robust, usable solutions for training and testing environments.
- Contribute to the design and refinement of wind tunnel fixtures and experimental setups.

Equipment and Technical Operations

- Maintain and service wind tunnel and other SASI technical equipment, including routine checks and fault finding.
- Support operation and reliability of wind tunnel systems and associated hardware.
- Troubleshoot and resolve technical issues across programs.

Project Delivery

- Manage multiple projects from concept to delivery.
- Work with coaches and performance staff to scope and prioritise work.
- Deliver solutions that are timely, fit for purpose, and ready for athlete use.

Collaboration

- Work effectively with athletes, coaches, engineers, and performance staff.
- Contribute to multidisciplinary performance outcomes.



- Bridge the gap between engineering design and practical application.

Special Conditions and Essential Requirements

- This role has been classified as a position of trust, and a 'prescribed position' under the *Child Safety (Prohibited Persons) Act 2016*. The incumbent is subject to a satisfactory Department of Human Services Working With Children Check (WWCC) in line with departmental criminal history screening policies and procedures.

Qualifications / Licences

Essential

- Tertiary qualification in Engineering (Mechanical, Biomedical, Rehabilitation or other similar field).
- 2 years industry applied engineering experience in an applicable field.
- Current driver's licence

Person Capabilities

- Strong hands-on engineering experience and capability.
- Experience designing and delivering solutions to complex mechanical or equipment challenges.
- Proven fabrication skills across a range of materials and methods.
- Experience maintaining and troubleshooting technical equipment.
- Ability to manage multiple projects and competing priorities.
- Clear communication and ability to work with diverse stakeholders.
- Strong problem-solving skills with an analytical and detail-oriented approach.
- Experience with instrumentation and data acquisition.
- Ability to work independently and make sound decisions.
- Ability to plan and deliver work to defined outcomes in line with defined timeframes.
- Comfortable working across both design and hands-on implementation.
- Collaborative and athlete-centred.
- Experience in sport, human-centred design and/or ergonomics.
- Experience in, or understanding of, Para sport systems (e.g. impairments, classification, equipment rules).
- CAD capability and experience modelling designs prior to fabrication.
- Basic electrical/electronic skills.
- Experience with 3D scanning or reverse engineering.

Corporate Responsibilities

Exhibits behaviours and demonstrates commitment and accountability to:

- Keeping accurate and complete records of business activities in accordance with the State Records Act 1997.
- Maintaining a commitment to the Public Sector Act 2009, Ethical Conduct and the legislative requirements of the Public Sector Act 2009 and Work Health and Safety Act 2012.
- Supporting and advocating Equal Employment Opportunity (EEO) and diversity in the workplace in accordance with EEO legislation. In particular, maintaining a commitment to promote an inclusive workplace in support of Aboriginal and Torres Strait Islander people and other under represented groups.

Delegate Approval

Name

Signature

Date: / /

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