



THE UNIVERSITY  
of ADELAIDE

# Sports Engineering

School of Mechanical Engineering



[adelaide.edu.au](http://adelaide.edu.au)

**life**  
IMPACT

# Sports Engineering

## Research, Advice and Design

### Our Background

The University of Adelaide was the first in Australia to establish a sports engineering degree program. The sports engineering group emerged from the growing industry need for qualified sports engineers and designers, and was built on the success of world-class research in the fields of fluid mechanics, biomechanics and materials science within the School of Mechanical Engineering.

### Our Expertise

We are concerned with all aspects of sports engineering. Our team members are internationally recognised and focus on fundamental and applied research in:

- > Aerodynamics
- > Biomechanics
- > Equipment design
- > Innovative instrumentation
- > Material science

### Our Capabilities

We solve sports engineering problems with our state-of-the-art research facilities and equipment, including:

- > Dedicated sports engineering laboratory
- > 3D motion capture system
- > Force plate
- > 3D laser scanning vibrometer
- > Physiological analysis devices
- > High-speed cameras
- > Advanced laser diagnostics
- > Large-scale wind tunnel  
(3m × 3m cross section, 120km/hr wind speed)
- > eResearchSA computing facilities

For further information:

[www.mecheng.adelaide.edu.au/sports/](http://www.mecheng.adelaide.edu.au/sports/)