

Australian Institute of Sport (AIS) Grants for 2011/12

National Sporting Organisations

Grant Recipient	Study	Grant Amount	Location
Cycling Australia	Altitude Training for Elite Track Sprint Cyclists	\$10,000	National Outcome
Tennis Australia	Effects of hard and clay court-surface	\$13,200	National Outcome
Athletics Australia	Modified LH TL at 1380m combine with 9hrs/day simulated altitude of 3000m	\$20,000	National Outcome
Olympic Winter Institute of Australia	VO2 peak in lower vs upper body ergometers in cross country skiers	\$10,875	National Outcome
Yachting Australia	Mental Processing and Psychological Performance Factors that Predict International Success in Sailing	\$28,408	National Outcome
Olympic Winter Institute of Australia	Longitudinal isokinetic strength profile of developing aerial skiers	\$2,380	National Outcome
Cycling Australia	Different recovery strategies on performance in Olympic Cycling events	\$9,420	National Outcome
Diving Australia	Diving Performance Analysis in London	\$10,700	National Outcome
Rowing Australia	Can nitrate supplementation aid rowing performance	\$19,420	National Outcome
Yachting Australia	Olympic and Paralympic Class Sail Development	\$13,000	National Outcome
Yachting Australia	UbiMet project in Sailing	\$20,000	National Outcome
Yachting Australia	Sailing on-board camera system for Paralympic sailor field of vision	\$4,000	National Outcome
Diving Australia	Computational fluid dynamics in Diving	\$50,000	National Outcome
Hockey Australia	Video Referral System	\$13,000	National Outcome

Discretionary Grants – ASC
Attachment B

Grant Recipient	Study	Grant Amount	Location
Yachting Australia	Pre-start match racing tactics profiling	\$20,000	National Outcome
Shooting Australia	EmW: Shooting sport feedback	\$20,000	National Outcome
Swimming Australia	Computational Fluid Dynamics (CFD) in swimming	\$100,000	National Outcome
Table Tennis Australia	Table Tennis performance analysis software	\$18,000	National Outcome
Table Tennis Australia	Analysis and Enhancement of Athletes Playing Technique Table Tennis	\$5,360	National Outcome
Olympic Winter Institute of Australia	Visual skills and awareness in skiing	\$18,640	National Outcome
Olympic Winter Institute of Australia	Quantifying skiing technique	\$5,000	National Outcome
Olympic Winter Institute of Australia	The use of micro sensor technology for performance analysis and in-situ course profiling in snow sports	\$6,707	National Outcome

Australian Paralympic Committee

Grant Recipient	Study	Grant Amount	Location
Australian Paralympic Committee	Maintaining fitness levels in sitskiing athletes during overseas snow training period	\$3,500	National Outcome
Australian Paralympic Committee	Windtunnel testing/ aerodynamics	\$10,000	National Outcome
Australian Paralympic Committee	Adjusting seat and feet position and knee bracing of an adaptive rower	\$6,584	National Outcome
Australian Paralympic Committee	Improving start performance in standing class alpine skiers	\$3,000	National Outcome

State and Territory Institutes and Academies of Sport

Grant Recipient	Study	Grant Amount	Location
Queensland Academy of Sport	Monitoring and forecasting of relationships using dynamic linear models	\$31,170	National Outcome
Western Australia Institute of Sport	Influence of post-exercise hypoxic exposure on subsequent iron metabolism in athletes	\$16,983	National Outcome
NSW Institute of Sport	Hip Strength Profiles in Elite Sport Specific Athletic Populations	\$13,200	National Outcome
Queensland Academy of Sport	Prospective MRI Study of Hip Muscle Volumes and Strength in Relation to Femoracetabular Impingement (FAI) in Elite Male Water Polo Players	\$29,000	National Outcome
Queensland Academy of Sport	The effect of cold water immersion on high-intensity exercise performance and cardio-respiratory function	\$13,850	National Outcome
South Australian Sports Institute	Mindfulness training for pacing in swimming	\$5,000	National Outcome
NSW Institute of Sport	Inertial sensor tracking of mechanical load for injury prevention in track and field athletics.	\$3556	National Outcome
Victorian Institute of Sport	A longitudinal, multi-factorial risk analysis of Australian elite female gymnasts.	\$46,580	National Outcome
Western Australian Institute of Sport	The effects of nitrate (beetroot juice) supplementation on sprint kayak performance	\$6,960	National Outcome

Grant Recipient	Study	Grant Amount	Location
Western Australian Institute of Sport	Understanding swimming mechanics for amputee swimmers: Implications for propulsion generation	\$15,550	National Outcome
NSW Institute of Sport	Augmented Feedback for Shooting Accuracy- Project 2 (Archery)	\$6,000	National Outcome
NSW Institute of Sport	Optical Filters- Innovation Project 1 (Archery)	\$7,594	National Outcome
Victorian Institute of Sport	Performance Analysis Video Project- Sports Code (Badminton)	\$9,000	National Outcome
Victorian Institute of Sport	3D multidimensional video feedback system	\$35,000	National Outcome
Western Australian Institute of Sport	Computational Fluid Dynamics (CFD) to shed light on flat-water kayaking performance questions	\$19,950	National Outcome
NSW Institute of Sport	SOPAC Fixed camera competition analysis system	\$35,000	National Outcome

Australian Universities

Grant Recipient	Study	Grant Amount	Location
Griffith University	Assessment of diving wrist injuries	\$5,000	National Outcome
University of Newcastle	A laboratory-based model to identify the risk of respiratory illness in athletes	\$41,820	National Outcome
University of South Australia	Sleeping for Gold: The Influence of Sleep on the Sports Performance of Elite Athletes	\$75,000 over three years contribution by the AIS.	National Outcome
RMIT	Optimising nutrition ARC Linkage Grant	\$25,000	National Outcome

Grant Recipient	Study	Grant Amount	Location
University of Queensland	Psychological Automaticity in swimming	\$4,850	National Outcome
Griffith University	Efficacy of a Virtual Coach in athlete development, in the absence of qualified coaches	\$15,181	National Outcome
Griffith University (Lead Org), Victoria University and University of Sydney.	Improving determinants of Australian sports talent identification and development: a multi-disciplinary approach	\$80,000 over three years.	National Outcome
University of Queensland	Talent Transfer: Implications for Coaching Philosophy and Practice	\$47,750 over three years.	National Outcome
Victoria University (lead org), Gymnastics Australia and Maribyrnong Sports Academy	Sporting Success: A longitudinal study of sport participation pathways	\$100,000 from ASC/Victoria University Research Fund	National Outcome
Queensland University of Technology	Movement pattern variability and learning design in elite springboard diving programmes	\$21,000 over three years	National Outcome
Victoria University	Nutritional supplements to enhance team-sport athlete skill performance and decision making	\$20,400	National Outcome
Macquarie University	Development of technology to give instantaneous velocity in swimming	\$15,000 over three years	National Outcome

AIS and Victoria University Funded Projects (begun 2011)

Grant Recipient	Study	Grant Amount	Location
Victoria University	Effects of beta-alanine supplementation in elite female hockey players, and potential mechanisms of action.	\$85,000 ASC/Victoria University Research Fund	National Outcome

Discretionary Grants – ASC
Attachment B

Grant Recipient	Study	Grant Amount	Location
Victoria University	Evaluating Neuromuscular Power and Fatigue Resistance in Olympic Sprint Cyclists (Track and BMX): Combining Emerging Technology with Contemporary Methodology	\$21,060 ASC/Victoria University Research Fund	National Outcome
Victoria University	Taking the plunge: does hydrotherapy help or hinder recovery from resistance training	\$48,000 from ASC/Victoria University Research Fund	National Outcome
Victoria University	Understanding the role of feedback technology in the daily training environment	\$125,000 ASC/Victoria University Partnership Fund	National Outcome
Victoria University	A Multi-Modal Data Analytics Approach to Enhance Decision Making in High Performance Tennis	\$124,000 ASC/Victoria University Research Fund	National Outcome
Victoria University	Competition at Altitude – Performance Decrement and Timecourse of Adaptation	\$6,000	National Outcome

Other

Grant Recipient	Study	Grant Amount	Location
Cyberiad (Dr Leo Lazaukas)	Development of System performance models for the optimization of boat trim in Kayaking	\$22,562	National Outcome
University of Auckland, NZ	Determination of movement kinematics in an aquatic environment using inertial sensors	\$51,200	National Outcome

PhD Scholars Grants for 2011/12

Grant Recipient	Discipline / Sport	Summary of Projects / Theme	Grant
University of Canberra	Physiology	Mechanisms of physiological adaptation to moderate altitude	\$16,000 pa over 3 years
Charles Sturt University	Physiology/Basketball	Training management in basketball	\$8,000 pa over 3 years
University of Canberra	Physical Therapies	Ankle movement discrimination in injury and performance	\$16,000 pa over 3 years
University of Canberra	Physiology/Rugby	Game analysis and training load management in Rugby Union	\$4,500 pa over 3 years
University of Canberra	Strength & Conditioning/ ACTAS	Power development during maturation in elite athletes	\$10,000 pa over 3 years
University of the Sunshine Coast	Physical Therapies/ Physiology/APC Swimming	Musculo-skeletal and drag “net force” characteristics of paralympic swimmers and the degree of asymmetry in these characteristics	\$5,000 pa over 3 years
University of Queensland	Coaching and Officiating/ Physiology/Cycling	Body Composition-how weight management effects power output in female cyclists	\$12,000 pa over 3 years
Victoria University	Coaching and Officiating/ Physiology/Cycling	Optimizing cycling position by modelling aerodynamics and neuromuscular fatigue - Changed to Fatigue in elite track sprint cyclists	\$12,000 pa over 3 years
University of Queensland	NTID	Coaching Practices	\$16,000 pa over three years
University of Technology Sydney	Physiology/Canoe/ Kayak	Monitoring and controlling the training process in sprint kayak	\$4,000 pa over 3 years
Murdoch University	Recovery	Neuro and Bio-feedback and sleep - TBC	\$1,000 pa over 3 years
Victoria University	ATTRU/Swimming	Drag effects in Swimming	\$1,000 pa over 3 years
University of Wollongong	Movement Science	Influence of Truck biomechanics on knee loading during jumping and landing	\$3,573 pa over 3 years

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Grant Recipient	Discipline / Sport	Summary of Projects / Theme	Grant
University of Newcastle	Physiology	Immunology	\$12,500 pa over 3 years