Australian Government
Department of Education

National Industry PhD Program

National Industry PhD Program

Round 7 2026 – Successful Projects

Application No.	Stream	Project Title	Project Description	Field of Research	Participating University	Industry Partner/s	State
42039	Industry Linked PhD	Development of Low-Noise Laser Systems for Space-Based Optical Atomic Clocks	Optical atomic clocks keep time with extreme precision, but they require exceptionally stable lasers. This project designs compact, rugged laser systems for ytterbium-based clocks, focusing on stability and integration for real-world use. The goal is field-deployable timing technology that supports more resilient timing infrastructure on Earth and in space.	Physical Sciences	Adelaide University	QuantX Labs Pty Ltd	SA
42042	Industry Linked PhD	Development of a Performance Measurement System for Track Cycling	Track cyclists lose speed mainly due to air resistance, but current measurement tools can be limited. This project develops a new training system that measures air movement around the velodrome and combines it with computer simulation to estimate drag accurately. It aims to improve performance for elite cyclists and create a marketable technology.	Engineering	Adelaide University	AusCycling Ltd	SA
42053	Industry Linked PhD	Artificial Intelligence Agents for Autonomous Driving Systems	Autonomous driving systems generate huge amounts of data, but improving the models often requires heavy manual work. This project builds an AI-driven system to automate the full cycle: processing data, improving models, and deploying updates. With continuous learning and explainable AI, it aims to make development faster, safer, and easier to validate for real-world driving.	Information and Computing Sciences	Adelaide University	Motovis Australia Pty Ltd	SA
42006	Industry Linked PhD	Unlocking Australia's Hidden Housing Supply via Optimal Land Subdivision	This project creates an AI optimisation system to automatically generate optimal land-use plans, revealing hidden development potential. By navigating ambiguous council regulations and identifying precedents for transparent approvals, the research unlocks untapped housing supply, improves efficiency, and helps solve Australia’s critical housing shortage.	Information and Computing Sciences	Adelaide University	DDDI Group Pty Ltd	SA

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41894	Industry Linked PhD	Investigating Genetic and Disease-Related Factors That Improve Wheat Resistance to Yellow Spot Disease	Improving disease resistance in wheat is essential for Australia's food security. This research explores how plants respond to disease in real farming conditions, linking field performance with genetics. The findings will support the development of stronger, more reliable wheat varieties suited to different regions.	Agricultural and Veterinary Sciences	Curtin University	Australian Grain Technologies	WA
42009	Industry Linked PhD	Improving Prenatal Supplementation Through Consumer-Informed Design and Clinical Evaluation	Understanding what pregnant women want from supplements is key to improving health outcomes. This project studies preferences, tests new formulations, and evaluates their effects over time. The research aims to guide better supplement design and provide strong evidence to support maternal and child health decisions.	Medical and Health Sciences	Flinders University	Factors Group Australia Pty Ltd	SA
42011	Industry Linked PhD	Digital Quality Assurance for Low-Carbon Cement-Based Materials	Low-carbon construction materials are becoming increasingly important. This project develops new methods to monitor and improve the quality of 3D-printed building materials made from industrial waste. The goal is to support more sustainable construction while ensuring materials are safe, reliable, and suitable for real-world use.	Engineering	Flinders University	Backtech Pty Ltd	SA
42012	Industry Linked PhD	Resilient Energy Management for Remote Communities Using Quantum Computing	Managing energy systems in remote communities can be complex and vulnerable to disruptions. This project explores how quantum technologies could improve system security and performance. By enhancing monitoring and decision-making, the research aims to support more reliable and resilient energy systems.	Engineering	Flinders University	Swan Foresight Pty Ltd	SA
41931	Industry Linked PhD	Health, Fatigue and Performance in Queensland Horse Racing Jockeys: Establishing Evidence-Based Standards for Safer Careers	Horse-racing jockeys face intense physical and mental demands that can affect long-term health and performance. This project will identify key health and wellbeing factors, test a standardised statewide training program, and develop industry standards. The aim is to improve performance, reduce injuries, and create safer career pathways for Queensland jockeys.	Medical and Health Sciences	James Cook University	Racing Queensland Board Ltd.	QLD
41925 42054	Industry Linked PhD	Trustworthy AI Coding Agent for Software Teams	As artificial intelligence writes more software, ensuring safety becomes critical. This project builds the next generation Agentic AI coding tools that check their own code to prevent errors, security risks, or misalignment with human intentions. The goal is	Information and Computing Sciences	Monash University	Atlassian Pty Ltd	VIC

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			safer, more reliable software for sensitive industries like healthcare, transport, and infrastructure.				
41964	Industry Linked PhD	Integration of Atomic Clocks into Sensors for Mining Exploration	Combining two advanced measurement tools into one device, this project develops a compact quantum sensor for resource exploration. By improving accuracy while reducing size and cost, the research aims to create practical technology that can be used more easily in the field.	Physical Sciences	Monash University	Nomad Atomics Pty Ltd	VIC
41918	Industry Linked PhD	Scalable Brain Signal Models to Enable the Next Generation of Neurotechnology	Most brain-monitoring artificial intelligence systems are designed for specific tasks and cannot easily adapt. This project creates a general-purpose model that can learn from many different brain signal datasets. The outcome will support applications like mental wellbeing monitoring and advanced brain–computer interfaces.	Information and Computing Sciences	Monash University	Emotiv Research Pty Ltd	VIC
41919	Industry Linked PhD	Distributed Training of Large AI Models for Greater Energy Efficiency and Access	Training advanced artificial intelligence usually requires massive data centres, limiting access to large organisations. This project explores how training can be shared across many smaller systems while reducing energy use and costs. The goal is to make AI development more accessible, flexible, and collaborative for researchers and businesses.	Information and Computing Sciences	Monash University	Pax Network Aus Pty Ltd (Pluralis Research)	VIC
41946	Industry Linked PhD	New Therapeutic Genetic Targets in Polycystic Kidney Disease	An inherited kidney disease affects many Australians and currently has limited treatment options. This project investigates the biological processes behind the disease and develops new targeted drug approaches. By improving understanding of how the illness develops, it aims to create safer and more effective treatments for patients.	Biological Sciences	Monash University	xCystence Bio Pty Ltd	VIC
41917	Industry Linked PhD	Development of Privacy-Preserving Foundational Video AI Models for Human Activity Analysis	Understanding human activity from video while protecting privacy is a growing challenge. This project builds artificial intelligence systems that can recognise actions and behaviours without identifying individuals. The technology will support safer workplaces, infrastructure monitoring, and public spaces while maintaining strong privacy protections.	Information and Computing Sciences	Monash University	Aervision Pty. Ltd.	VIC
41934	Industry Linked PhD	Reducing Climate Risk in Agriculture by Using	Farmers often rely on insurance that doesn't always match the real losses they experience. This project investigates why these mismatches occur and develops better statistical models using	Economics	Monash University	CelsiusPro Australia	VIC

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		On-Farm Data for Insurance	local weather data. The goal is to create fairer, more accurate insurance products that farmers can trust.				
41846	Industry Linked PhD	Adaptive Artificial Intelligence Systems for Real-Time Planning in Changing Environments	This project improves how artificial intelligence completes complex tasks. Instead of restarting when something goes wrong, the system will detect problems during execution and fix only the broken steps. This makes AI more efficient, reliable, and better suited for real-world tasks where unexpected changes often occur.	Engineering	Royal Melbourne Institute of Technology	Clarity Global Pty Ltd	VIC
41853	Industry Linked PhD	Development of a Novel Spray-Based Method to Strengthen Aluminium Materials	This project develops stronger and more durable aluminium-based materials for industries like automotive and aerospace. It uses a unique particle structure to improve how materials bond and resist wear. The result will be lighter, tougher components that perform better under stress and demanding conditions.	Engineering	Royal Melbourne Institute of Technology	GMA Garnet Group	VIC
41863	Industry Linked PhD	Improved Energy Recovery from Liquid Waste Sources from Breweries and Hospitality	This project studies how waste from breweries and hospitality venues behaves when processed as a liquid mixture. By understanding how it flows and converts into energy or materials, the research aims to reduce energy use, improve waste handling, and support more sustainable, low-carbon business operations.	Engineering	Royal Melbourne Institute of Technology	Spiral X Technologies Pty Ltd	VIC
41845	Industry Linked PhD	Evaluation of Roadside Safety Barriers for Reducing Impact in Vehicle Crashes	This project designs a safety device for roadside poles to reduce injury in car crashes. The device spreads out impact forces to make collisions less severe. Through testing and modelling, it aims to improve road safety standards and reduce deaths, injuries, and long-term social and economic costs.	Engineering	Royal Melbourne Institute of Technology	Delta-V Experts	VIC
41910	Industry Linked PhD	Coordination of Electric Vehicle Charging to Support Net-Zero Electricity Systems	Electric vehicle chargers are growing quickly, but many are underused. This project develops software to link chargers into a coordinated system that can support the electricity grid. By sharing power more efficiently, it aims to improve grid stability, reduce costs, and make better use of existing infrastructure.	Engineering	Royal Melbourne Institute of Technology	T-POWER	VIC
41966	Industry Linked PhD	Expect the Unexpected: AI Planning and Decision Support for Autonomous Warehouse Operations	Improving efficiency in large warehouses is the focus of this research. Using artificial intelligence, the project develops systems that plan deliveries and respond to disruptions in real time. The goal is to reduce delays, improve scheduling, and increase overall productivity in supply chain operations.	Information and Computing Sciences	The University of Melbourne	MONDELEZ AUSTRALIA (FOODS) LTD	VIC

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41954	Industry Linked PhD	Using Short-Form Video to Promote Sun Protection Behaviours in Young People	Skin cancer prevention among young people is becoming more challenging due to social media trends promoting tanning. This project studies how short-form video influences behaviour and develops better ways to communicate health messages. The aim is to create more effective campaigns that encourage safer habits.	Medical and Health Sciences	The University of Melbourne	CANCER COUNCIL VICTORIA	VIC
41962	Industry Linked PhD	Adaptive Tram Network Operations for Large-Scale Events	Managing large crowds during major events can be challenging for public transport systems. This project develops data-driven tools to predict passenger surges and adjust tram services in real time. The aim is to improve safety, reduce delays, and keep transport networks running smoothly during busy periods.	Engineering	The University of Melbourne	YARRA JOURNEY MAKERS PTY LTD	VIC
41967	Industry Linked PhD	Improving Nitrogen Supply in Organic Farming Using Recycled Organic Fertilisers	Organic farming systems often struggle with unpredictable nitrogen supply. This project tests a new type of organic fertiliser designed to release nutrients more effectively. The aim is to improve crop growth, reduce nutrient loss, and support more sustainable farming practices when used as part of an organic farming system.	Agricultural and Veterinary Sciences	The University of Melbourne	BALCO AUSTRALIA PTY LTD	VIC
41959	Industry Linked PhD	Development of Smart Materials for Wearable Technology and Other Sensing Systems	Smart materials that respond to heat, light, or electricity could transform wearable technology and sensing systems. This project develops flexible materials with adjustable properties for advanced applications. The outcome will support new technologies in manufacturing, electronics, and environmental monitoring.	Engineering	The University of Melbourne	Defence Science and Technology Group	VIC
41980	Industry Linked PhD	Immersive Reality Training for High-Risk and High-Stress First-Responder Environments	First responders such as paramedics face high-stress, unpredictable situations that can impact their wellbeing. This project tests immersive reality training to better prepare them for these environments. The research aims to improve decision-making, reduce stress, and provide stronger evidence for long-term benefits of advanced training methods.	Medical and Health Sciences	The University of Melbourne	SIMOVATION PTY LTD	VIC
41896	Industry Linked PhD	Development of Genomic Resources and Analytical Workflows to Support	This project aims to integrate advanced genomics techniques into fisheries management practices in Western Australia. It studies fish populations using genomics tools to understand movement, connectivity, and population structure. The results will help decision-makers identify fish stocks, support sustainable	Biological Sciences	The University of Western Australia	Department of Primary Industries and Regional Development	WA

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		Sustainable Fisheries Management	practices, and apply genomics tools more effectively in everyday fisheries management.				
41874	Industry Linked PhD	High Reliability Power Converter Design and Control	This project develops smarter power systems for renewable energy, like solar and battery storage. It focuses on improving how electricity is converted and controlled to make systems more reliable and efficient. The outcome will support stronger, more flexible energy networks that can better handle changing energy demands.	Engineering	The University of Western Australia	AUSTRALIA WISDOM CAPITAL GROUP	WA
41888	Industry Linked PhD	Pre-Clinical Testing of Tooth-Coloured Dental Filling Materials as Alternatives to Metal Fillings	With global efforts to reduce mercury use, dental fillings are shifting away from traditional materials. This project studies new tooth-coloured alternatives to ensure they are strong, reliable, and long-lasting. The research will guide better dental treatments and support the development of safer, environmentally friendly materials.	Medical and Health Sciences	The University of Western Australia	SDI Limited	WA
41871	Industry Linked PhD	Early Identification of Health Decline in Residential Aged Care to Reduce Avoidable Hospital Transfers	This project aims to reduce unnecessary hospital visits for people living in aged care. Many of these transfers can be avoided with better care in place. The research will analyse current practices, identify gaps, and develop tools to help staff provide safer, more effective care without needing hospital transfers.	Medical and Health Sciences	The University of Western Australia	Brightwater Care Group	WA
41904	Industry Linked PhD	Development of Low-Cost Artificial Intelligence-Enabled Wireless Sensors for Detecting Hidden Safety Hazards	Hidden hazards in warehouses and infrastructure can be difficult to detect with current tools. This project develops a wireless sensing system using radio signals and artificial intelligence to identify hidden objects or risks without physical inspection. The goal is safer, more efficient monitoring in industrial and logistics environments.	Engineering	University of New South Wales	Ginigai PTY LTD	NSW
42020	Industry Linked PhD	Highly Sensitive Light Detectors for Advanced Technologies	Highly sensitive light detectors are essential for advanced technologies like quantum communication. This project develops improved devices that are easier to manufacture and integrate into systems. The research aims to support the growth of next-generation technologies in sensing, communication, and computing.	Physical Sciences	University of New South Wales	Emergence Quantum	NSW
41985	Industry Linked PhD	Validating Saliva-Based Hydration Testing for	Fast, accurate hydration monitoring is important in sport and workplace health and safety. This project will help validate and improve a saliva-based hydration test and digital app for sport and	Medical and Health Sciences	University of Newcastle	IhydRATE Pty Ltd	NSW

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		Sport and Workplace Safety	workplace use. The research will test new saliva-based hydration markers in real-world settings to improve accuracy and confirm the system is fit for purpose.				
41974	Industry Linked PhD	Alternative Learning Approaches for Robots Doing Complex Tasks	Teaching robots to complete complex tasks is still a major challenge. This project combines different learning approaches so robots can break tasks into smaller steps and improve through experience. The goal is to enable robots to work more independently in real-world environments.	Information and Computing Sciences	University of Newcastle	Imitation Machines Pty Ltd	NSW
41908	Industry Linked PhD	Development of Environmentally Friendly Additives for Sustainable Pesticide Use in Australian Agriculture	This project uses wood vinegar, a natural byproduct, to enhance pesticide performance and reduce chemical use. It aims to lower environmental pollution, protect soils and waterways, and cut costs for farmers. The outcomes will enable greener crop protection and accelerate Australia's transition to sustainable, low-impact agriculture.	Agricultural and Veterinary Sciences	University of Newcastle	Biocarbon Pty Ltd	NSW
42049	Industry Linked PhD	AI-Enabled Discovery of High-Performance Fire-Retardant Materials	This project aims to develop an AI-assisted materials discovery framework for developing high-performance fire-retardant coatings for safe buildings. By working with industry partner YJ Linings, the research will address an urgent industry need for advanced materials that improve building safety while supporting innovation in Australia's construction sector.	Technology	University of Southern Queensland	YJ Building Evolution Pty Ltd	QLD
42003	Industry Linked PhD	Construction Safety Compliance and Risk Mitigation Using Large Language Models	Safety compliance in construction often relies on manually reviewing complex documents. This project develops an artificial intelligence system to analyse safety plans and identify potential risks. The goal is to improve efficiency, reduce human error, and support safer construction practices. Expected outcomes include a validated AI prototype, improved evidence for AI-enabled construction safety assurance, and industry relevant advanced research training at the intersection of artificial intelligence and construction management.	Technology	University of Southern Queensland	YJ Building Evolution Pty Ltd	QLD
42000	Industry Linked PhD	Nutrient Targets for Topsoil Alternatives used for Mine Site Rehabilitation	Rehabilitating land after mining is difficult due to limited topsoil availability. This project explores how waste materials can be turned into effective soil alternatives. By testing and engineering the nutrient conditions required to support plant growth, the	Agricultural and Veterinary Sciences	University of Southern Queensland	BHP Mitsubishi Alliance Coal Operations Pty Ltd	QLD

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			research aims to improve land restoration and support more sustainable mine closure practices.				
41976	Industry Linked PhD	The Art of Resilience: A research project exploring Creative Recovery in response to crisis	Creative arts can play an important role in community wellbeing. This project works with regional communities to design and deliver performance-based initiatives that strengthen social connection and resilience. The research will develop practical tools to support community-led creative programs in different settings.	Studies in Creative Arts and Writing	University of Tasmania	Assembly 197	TAS
42033	Industry Linked PhD	Movement and Feeding Ecology of Bull Sharks in Southeast Queensland	Bull sharks live across rivers, estuaries, and ocean habitats, often close to growing coastal communities. This research tracks their movement and diet using acoustic tags, environmental monitoring, and molecular tools. The findings will support smarter public safety education and evidence-based management of human–shark interactions in Southeast Queensland.	Agricultural and Veterinary Sciences	University of the Sunshine Coast	Department of Primary Industries (Queensland Government)	QLD
42023	Industry Linked PhD	Place-Based Value Creation in the Australian Music Industry	Regional musicians are finding it harder to build sustainable careers, especially as venues and festivals close. This research explores new place-based ways of making music with communities and local environments. The aim is to identify models that create real value and support more viable creative careers outside big cities.	Studies in Creative Arts and Writing	University of the Sunshine Coast	Yama-Nui Records	QLD
42018	Industry Linked PhD	Development of Ultra-Thin Bipolar Plate Fuel Cells for More Efficient Heavy Transport	Fuel cells are an important technology for clean transport, but key components are expensive and difficult to produce. This project develops new materials that are lighter, cheaper, and more durable. The goal is to support more efficient manufacturing and strengthen Australia's role in advanced energy technologies.	Engineering	University of Wollongong	SNS Unicorp Pty Ltd	NSW
41999	Industry Linked PhD	Predictive Modelling of Whale and Fishing Activity Interactions for Ocean Management in New South Wales	Whale entanglement in fishing gear remains a serious issue along Australia's coast. This project develops models to predict when and where these interactions are most likely. By improving understanding of risks, it helps inform safer fishing practices and better conservation strategies.	Biological Sciences	University of Wollongong	NSW National Parks and Wildlife Service	NSW
41986	Industry Linked PhD	Remote Physiotherapy Assessment and Personalised Feedback using AI	Access to physiotherapy is limited in many rural areas. This project develops an artificial intelligence system that uses video and wearable data to assess exercises and provide feedback	Information and Computing Sciences	Victoria University	ExerWatch	VIC

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			remotely. The aim is to improve access to rehabilitation services and support better health outcomes in regional communities.				
42051	Industry Researcher PhD	Virtual Assessment Models for Rural Allied Health and In-Home Aged Care	People in rural areas can face long waits for nursing, allied health, and aged care assessments due to travel and workforce shortages. This project co-designs and tests a virtual multi-disciplinary care model within a rural health service. The goal is to provide faster access, better efficiency, and practical guidance for scaling digital assessments across other regional settings.	Medical and Health Sciences	Adelaide University	SA Health – Yorke and Northern Local Health Network	SA
42043	Industry Researcher PhD	Advanced Assessment Methods to Protect Communities from Legacy Gold Mining Contamination	Old mining sites can leave harmful metals like arsenic and lead in nearby towns, creating ongoing health risks. This project focuses on Victoria's Golden Triangle to improve how contaminated land is found, assessed, and managed. It will strengthen tools for safer planning, healthier communities, and better use of urban land.	Medical and Health Sciences	Adelaide University	EPA Victoria	SA
42052	Industry Researcher PhD	Statistical Methods for Combining Probability and Non-Probability Population Survey Data	Reliable surveys are getting harder and more expensive because fewer people respond and some groups are missed. This project develops statistical methods that combine high-quality probability sampling with cheaper, more convenient samples. The goal is better estimates for small areas and priority populations, improving decision-making across health, education, and social policy in Australia.	Mathematical Sciences	Adelaide University	The Social Research Centre	SA
42034	Industry Researcher PhD	From Episodic Care to Lifetime Value - a digitally enabled approach to Chronic Disease	Chronic disease care is currently funded as reactive, isolated episodes, although conditions last a lifetime. This project builds a "patient lifetime value" model to compare long-term health and cost outcomes using different care approaches. Using a digital care system for Inflammatory Bowel Disease as a test case, it will inform funding and digital health decisions.	Medical and Health Sciences	Adelaide University	Crohn's Colitis Cure	SA
41971	Industry Researcher PhD	Development of new carbon-based materials to replace expensive metals in solar panels	Reducing the cost of solar energy production is an important goal of this research. The project develops new carbon-based materials to replace expensive metals in solar panels. This could make solar technology cheaper, more sustainable, and easier to manufacture at large scale.	Engineering	Australian National University	Halocell Energy	ACT
41936	Industry Researcher PhD	Co-Design of a Weight Inclusive Health Care	Healthcare professionals can sometimes unintentionally treat patients differently based on body weight. This project develops training to support more inclusive, respectful care. By working	Medical and Health Sciences	Bond University Limited	Northern NSW Local Health District	QLD

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		Professional Development Program	with clinicians and using real-world evidence, it aims to improve patient experiences and promote fairness in healthcare settings.				
41994	Industry Researcher PhD	Policies and Practices Shaping Multicultural and Multilingual Education in Australian Schools	Many students in Australia speak a language other than English at home but face challenges in school. This project studies how education systems respond to these students and where gaps exist. The findings will help schools create more inclusive learning environments by identifying organisational, leadership and pedagogical conditions that recognise and value multilingual learners.	Education	Curtin University	Catholic Education Western Australia (CEWA)	WA
42024	Industry Researcher PhD	Improving Power Grid Stability Using Energy Storage and Data-Driven Control	Power grids with lots of renewable energy can develop dangerous oscillations that threaten reliability. This project develops control methods using battery energy storage systems and wide-area measurements to dampen these oscillations. The goal is safer operation of Australia's electricity market as it moves toward very high renewable supply.	Engineering	Deakin University	Entura Pty Ltd	VIC
41998	Industry Researcher PhD	Co-Design and Implementation of a Social and Emotional Wellbeing Program for Aboriginal and Torres Strait Islander Men	Aboriginal and Torres Strait Islander men experience significantly higher suicide rates, highlighting an urgent need for culturally appropriate support. This project co-designs community-led wellbeing programs and digital tools to improve access to support. The aim is to strengthen connection, cultural identity, and overall mental health outcomes.	Medical and Health Sciences	Flinders University	Deadly Inspiring Youth Doing Good Aboriginal and Torres Strait Islander Corporation	SA
41993	Industry Researcher PhD	International Migration of Pharmacists to Australia: Improving Workforce Integration and Service Capacity	Australia's pharmacy workforce faces shortages, especially in regional areas. This research investigates how overseas-trained pharmacists can help fill these gaps. By analysing workforce trends and barriers, the project aims to improve recruitment pathways and support a more balanced healthcare workforce across the country.	Medical and Health Sciences	Flinders University	SA Pharmacy	SA
42008	Industry Researcher PhD	Using Routine Clinical Data to Improve End-of-Life Preparedness in Aged Care	End-of-life planning in aged care facilities often comes too late, despite the data to act sooner already being there. This project explores how existing information can be used earlier to recognise care needs. The goal is to help staff plan ahead, improve communication, and provide better support for residents and their families.	Medical and Health Sciences	Flinders University	Catholic Healthcare Limited	SA

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42005	Industry Researcher PhD	Enhancing Chronic Disease Management in Low-Income Communities Through Combining Health Care with Social Support	Chronic diseases place a growing burden on Australia's healthcare system. This project explores how combining health care with social support can improve outcomes. By improving care models, it aims to reduce hospital visits and better support people managing long-term health conditions.	Medical and Health Sciences	Flinders University	Northern Adelaide Local Health Network	SA
41938	Industry Researcher PhD	Metabolic Effects of Impact Related Muscle Damage to Inform Recovery Strategies	Physical impacts, such as those experienced in contact sports, can damage muscles and affect recovery needs. This research measures how such injuries change metabolism. The findings will help design better nutrition and recovery strategies for athletes and others recovering from similar muscle damage.	Medical and Health Sciences	Griffith University	TITANS RUGBY LEAGUE PTY LTD	QLD
41899	Industry Researcher PhD	A Human Centred Approach to Responsible Artificial Intelligence Implementation and Governance for Financial Crime Prevention	Banks are increasingly using artificial intelligence to detect financial crime, but adoption remains challenging. This research explores how humans and AI can work together more effectively during investigations. It will develop practical frameworks to improve decision-making, reduce bias, and build trust in AI systems used to protect financial systems.	Economics	Griffith University	COMMONWEALTH BANK OF AUSTRALIA	QLD
41852	Industry Researcher PhD	Waste Not, Feed More: Repurposing Seaweed for Sustainable Seafood Production	This project investigates how Seaweed can be used to remove excess nutrients from prawn farm wastewater and then be repurposed as a potential sustainable ingredient for aquaculture feeds. By transforming waste nutrients into valuable feed resources, the project aims to support more environmentally responsible and circular seafood production systems.	Biological Sciences	James Cook University	De Costi Seafood Pty Ltd.	QLD
41940	Industry Researcher PhD	Development of a Needle-Free Ultrasound Platform for Enhanced Vaccine and Drug Delivery	Delivering medicines without needles could make treatments safer and more comfortable. This project investigates how ultrasound can help drugs and vaccines pass through the body's natural barriers. The research aims to develop a non-invasive delivery system with strong potential for clinical and commercial use.	Engineering	Monash University	MuPharma Pty Ltd	VIC
42015	Industry Researcher PhD	Work Health and Safety Metrics Based on Risk	Traditional metrics for assessing safety often focus on incidents rather than risks. This project develops new ways to assess safety by focusing on the capability to prevent risks and control harm.	Medical and Health Sciences	Queensland University of Technology	Qantas Group	QLD

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		Preventability and Harm Control	Using real industry data, it aims to improve how organisations understand and manage safety in high-risk environments.				
41932	Industry Researcher PhD	Artificial Intelligence–Enabled Modelling of Solar Energy Farms for Optimised Maintenance and Operation	Improving solar energy performance is the focus of this research. By combining real-time weather data with sensor information, the project creates a digital model that predicts system performance and wear over time. This helps operators reduce maintenance costs, extend equipment life, and improve reliability of renewable energy systems.	Information and Computing Sciences	Queensland University of Technology	Sprint Digital Pty Ltd	QLD
41890	Industry Researcher PhD	Evaluation of Plant-Based Alternatives to Traditional Road Materials to Reduce Carbon Emissions	As road construction moves toward lower-carbon materials, ensuring performance and safety remains critical. This project investigates how recycled and plant-based materials affect road quality. It will develop improved testing methods and recommendations to support more sustainable infrastructure without compromising durability or safety.	Engineering	Royal Melbourne Institute of Technology	Puma Energy Australia	VIC
41847	Industry Researcher PhD	Improving the Detection of Prohibited Substances in Sports Supplements	This project improves testing of sports supplements to ensure they do not contain banned substances. Some natural ingredients are difficult to analyse, increasing risks for athletes. The research develops better screening methods to detect harmful substances and give athletes more confidence that supplements are safe to use.	Chemical Sciences	Royal Melbourne Institute of Technology	Racing Analytical Services Ltd	VIC
41884	Industry Researcher PhD	Development and Validation of a Framework to Assess Organisational Readiness for Artificial Intelligence Adoption	Despite large investments in artificial intelligence, many projects fail due to human and organisational challenges. This study creates a tool to measure how ready organisations are to adopt AI. By combining technical and human factors, it helps businesses make smarter decisions and improve their chances of success.	Mixed Field Programmes	Royal Melbourne Institute of Technology	Yonder Solutions Pty Ltd trading as Bosley AI	VIC
41951	Industry Researcher PhD	National Digital Implementation of the Friendly Schools Wellbeing Program	Bullying prevention programs are moving into digital platforms, but how this could impact delivery is not yet clear. This research studies how well an established program works when delivered digitally through the iYarn platform, instead of face-to-face. The goal is to ensure digital delivery still supports student wellbeing and can scale across schools nationally	Information and Computing Sciences	The University of Melbourne	IYARN PTY LTD	VIC

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41952	Industry Researcher PhD	Development and Validation of Synthetic Tissue Training Models for Robotic Surgeries	Training surgeons without relying on animal or human tissue is an important goal in modern medicine. This project develops a structured system to design and assess realistic training models. It aims to improve surgical education while supporting safer, more scalable alternatives for training future surgeons.	Medical and Health Sciences	The University of Melbourne	IMRA SURGICAL PTY LTD	VIC
41882	Industry Researcher PhD	Co-Design of Rehabilitation Pathways for Adults Experiencing Hearing Difficulties Despite Normal Test Results	Many people struggle to hear clearly even when standard hearing tests show normal results. This project develops a new care approach to support these individuals, including better diagnosis, training tools, and follow-up systems. The aim is to improve everyday communication and access to hearing services across Australia.	Medical and Health Sciences	The University of Queensland	National Acoustic Laboratories	QLD
41902	Industry Researcher PhD	Impairment Analysis and Athlete Development in Para Cycling: Optimising Performance & Pathways to Brisbane 2032.	Understanding how different physical impairments influence cycling performance is essential for fair competition and athlete success. This project will examine how Para cyclists develop, respond to training, and progress to elite performance. The findings will improve athlete pathways, coaching practices, and classification systems in the lead-up to Brisbane 2032.	Physical Sciences	The University of Queensland	AusCycling Ltd	QLD
41914	Industry Researcher PhD	Satellites + AI: Giving Australian Agriculture Clearer Views for Supply Chain Resilience	This project uses multiple satellite sensors and artificial intelligence to monitor Australia's farmland and rangelands. It helps farmers and exporters meet strict environmental rules, track carbon and biodiversity, forecast land changes, and manage risks from drought and degradation. The results will support stronger, more sustainable agricultural supply chains.	Earth Sciences	The University of Queensland	Cibo Labs Pty Ltd	QLD
41881	Industry Researcher PhD	Development of Odour Assessment Framework to Support Sustainable Intensive Livestock Farming	Inconsistent odour assessments affect the viability of livestock production projects across Australia. This research will review current methods and devise a consistent framework for odour assessment across Australia. The goal is to speed up approvals of new projects, improve social acceptance, and support more sustainable farming.	Environmental Sciences	The University of Queensland	ASTUTE ENVIRONMENTAL CONSULTING PTY LTD	QLD
41900	Industry Researcher PhD	Improving Treatment Tolerance and Patient Outcomes in Multiple Myeloma Through the	Targeting the human microbiome, this project explores new ways to support treatment for multiple myeloma, a type of blood cancer. By studying how gut bacteria interact with treatments, the research aims to improve patient outcomes and support	Medical and Health Sciences	The University of Sydney	Allasso Bio Pty Ltd	NSW

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		Use of Gut Microorganisms and Beneficial Bacteria	development of new therapies that work alongside existing cancer treatments.				
41848	Industry Researcher PhD	Design and Evaluation of a Digital Falls Prevention Program for People Receiving Palliative Care at Home	This project focuses on preventing falls for people receiving palliative care at home. It will identify risk factors and develop a digital program with guidance for patients, carers, and staff. The aim is to reduce injuries, improve care quality, and support safer living for people with serious illness.	Medical and Health Sciences	The University of Western Australia	Silverchain	WA
41968	Industry Researcher PhD	Enhancing Cardiovascular Health span Through Artificial Intelligence Enabled Cardiac Imaging	Heart disease remains a leading cause of death, yet integrating complex medical data into clear decisions is difficult. This project uses artificial intelligence to combine different types of heart imaging data into a single, easy-to-understand risk scores to support earlier and more accurate treatment.	Medical and Health Sciences	The University of Western Australia	Navier Medical Ltd.	WA
41855	Industry Researcher PhD	Laser Techniques for Fast and Precise Bone Shaping in Orthopaedics	This project improves a laser system used in joint replacement surgery. It aims to increase the speed of bone cutting while maintaining safety and precision. Faster and more accurate procedures could lead to better outcomes for patients and help bring this advanced surgical technology into everyday clinical use.	Physical Sciences	The University of Western Australia	ArthroLase	WA
41893	Industry Researcher PhD	Industry-Led Adoption of Affordable Artificial Intelligence to Improve Productivity in Small and Medium Sized Construction Businesses	Helping small construction businesses adopt artificial intelligence is the focus of this project. It develops practical, low-cost tools to reduce delays and cost overruns. By creating a clear step-by-step adoption pathway, the research aims to improve productivity and make digital technologies more accessible to smaller companies.	Built Environment and Design	University of Canberra	HOKZ ENTERPRISES PTY LTD	ACT
41868	Industry Researcher PhD	Low-Cost Production of Antibodies Using Engineered Photosynthetic Microorganisms	Antibodies are complex molecules used to prevent and treat a number of diseases. To improve access of these treatments, this research aims to develop a new, lower cost biological production system to improve the affordability of antibodies to prevent diseases such a malaria.	Medical and Health Sciences	University of New South Wales	Bondi Bio Pty Ltd	NSW
41920	Industry Researcher PhD	Strategic Surprise: Enhancing National Preparedness in	Unexpected global or political events can catch governments off guard. This research investigates how and why these “strategic surprises” occur and how institutions respond. By analysing past events and patterns, it aims to improve future planning, helping	Studies in Human Society	University of New South Wales	Strategise Australia Pty Ltd	NSW

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		National Security Decision-Making	governments prepare for uncertain and rapidly changing situations.				
42029	Industry Researcher PhD	Artificial Intelligence Based Structural Mapping for More Efficient Mining Operations	Mining and tunnelling often rely on slow, manual rock mapping. This project uses artificial intelligence to analyse excavation images and predict rock types and structural risks in real time. The aim is safer, more consistent decisions about stability, ground support, and blasting, improving productivity and reducing on-site uncertainty.	Engineering	University of New South Wales	JYA CONSULTING PTY LTD	NSW
41996	Industry Researcher PhD	Fundamental Chemical Processes to Improve Performance of Energy Storage Devices	Key components inside Energy Storage Devices such as batteries and supercapacitors are often overlooked but can strongly affect performance. This project studies how these materials interact within energy devices and develops improved designs. The goal is to create better-performing Energy Storage Devices and support new energy technologies through more efficient and scalable solutions.	Chemical Sciences	University of New South Wales	CAP-XX	NSW
41865	Industry Researcher PhD	Delivering Sustainable and Affordable Rental Housing in Australia	This project explores how sustainability certification can help deliver more affordable and climate-friendly rental housing in Australia. It investigates how these certifications influence finance, policy, and building design. The goal is to create systems that support more resilient housing while reducing emissions and long-term costs for residents.	Built Environment and Design	University of New South Wales	Green Building Council of Australia	NSW
41915	Industry Researcher PhD	Transforming Breast Cancer Treatment with an innovative radiotherapy delivery and optimisation technology	Radiotherapy is widely used to treat breast cancer, but it can unintentionally damage nearby organs like the heart and lungs. This research evaluates a new treatment technique designed to better target cancer while reducing harm. The goal is safer treatments and improved long-term outcomes for patients.	Medical and Health Sciences	University of Newcastle	Integrated Clinical Oncology Network Pty Ltd	NSW
42004	Industry Researcher PhD	Artificial Intelligence Driven Load Forecasting for Distributed Electricity Networks	Electricity networks are becoming more complex as renewable energy sources grow. This project develops advanced forecasting tools using artificial intelligence to predict energy demand more accurately. The results will help operators manage the grid more effectively and improve the reliability of power supply.	Technology	University of Southern Queensland	PE Simulation Software Pty Ltd	QLD

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41995	Industry Researcher PhD	Improving Mine Water Sustainability Through Selective Removal of Minerals and Salts	Mining operations often rely on difficult-to-treat water sources. This project develops advanced filtration methods to clean and reuse mine water more efficiently. By improving water quality and reducing waste, it supports more sustainable mining practices and lowers environmental impact in water-scarce regions.	Engineering	University of Southern Queensland	Norton Gold Fields Pty Ltd	QLD
41921	Industry Researcher PhD	Predictive Design of Loadbearing, Biodegradable Orthopaedic Implants	Permanent metal implants used in bone surgery can cause complications over time. This project aims to enable a novel bioresorbable material for use in load-bearing orthopaedic devices. By predicting how the material behaves during recovery, the project aims to support the design of reliable implants, improve patient outcomes, and reduce the need for additional surgeries.	Engineering	University of Technology Sydney	SDIP Innovations	NSW
41930	Industry Researcher PhD	Digital Modelling of Sound Emissions from Battery Energy Storage Systems to Decrease Noise Pollution	Noise from large battery energy storage systems can affect nearby communities. This research creates a digital model to predict and manage sound levels at new sites. By improving noise planning and assessment, the project helps reduce delays, improve community acceptance, and support clean energy development.	Engineering	University of Technology Sydney	Noizend Pty Ltd	NSW
42019	Industry Researcher PhD	Mapping Neural Variation and Change in Autistic and Attention Deficit Brains Using Brain Imaging	The way nutrients like folic acid affect the brain is not fully understood, especially in people with autism or attention conditions. This project studies brain activity and responses to supplements to better understand these effects. The findings will support more personalised approaches to health and nutrition.	Medical and Health Sciences	University of the Sunshine Coast	TMS IP Pty	QLD
41984	Industry Researcher PhD	Wellbeing, Performance and Sustainability in Tennis Coaching Under Pressure	Sports coaches often manage demanding roles that go beyond training athletes, including mentoring and leadership. This research examines the pressures coaches face and how these affect their wellbeing. The aim is to better understand these challenges and develop strategies to support healthier, more sustainable coaching careers.	Psychology and Cognitive Sciences	Victoria University	Tennis Australia	VIC
42027	Industry Researcher PhD	Measuring the Economic and Social Impact of Diabetes Beyond Health Care Costs	Diabetes creates major costs beyond hospitals and clinics, but these impacts are not well measured. This project focuses on the “hidden” costs: reduced productivity, the burden on unpaid carers, and welfare system costs. It will provide clearer evidence to help governments plan better long-term responses.	Medical and Health Sciences	Western Sydney University	Diabetes Australia	NSW