



Australian Government



AUSTRALIA'S  
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## AEA Ignite round 2 projects

State	University	RMS application number	Application title	Priority area	Focus area	Funding
ACT	The Australian National University	IG250200435	Portable Vacuum Ultraviolet Source to Support Human Exploration and Inhabitation of the Space Environment	Enabling capabilities	Space	\$434,585
		IG250200828	ChronoPhase: Picometer differential metrology at low power for space	Enabling capabilities	Space	\$289,765
		IG250201202	Solar-Enhanced Hydrothermal Liquefaction of Plastics and Biomass: Advanced Containment and Process Development	Renewables and low emission technologies	Renewable Energy	\$499,141
NSW	Macquarie University	IG250200521	Novel LiDAR remote ocean temperature mapping	Defence capability	Advanced Manufacturing	\$317,894
		IG250200749	Precision Technology Enhanced Solutions for Developing Pro-Growth Agricultural Products with Low Emissions	Value-add in the agriculture forestry and fisheries sector	Agriculture and Food Technology	\$486,874
NSW	Macquarie University	IG250200904	A Modular Magnetised Concrete Charging Unit for Wireless Electric Vehicle Charging	Transport	Advanced Manufacturing	\$199,918
		IG250200991	High-Power Diamond Laser for Adaptive Optics and Space Situational Awareness	Defence capability	Space	\$284,476
		IG250201154	Maximising Critical Minerals Processing and Operational Efficiency through High Finesse, Stable, Wide-Band Fabry Perot Interferometers for Improving Spectrograph Resolution.	Value-add in resources	Critical and Strategic Minerals Processing	\$297,712

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		IG250201270	Drone-Enabled Characterisation of Satellite and Ground Antenna Systems for Enhanced Beamforming and Polarisation Performance	Enabling capabilities	Space	\$428,342
	The University of New South Wales	IG250200006	Scalable, Low-Cost Technology for Renewable Biomethane Production	Renewables and low emission technologies	Renewable Energy	\$496,360
		IG250200029	EdgeSync: Advanced Multi-Sensor Synchronisation for High-Precision Robotics and Edge AI in Mining and Beyond	Enabling capabilities	Advanced Manufacturing	\$198,301
		IG250200052	SMARTBuild: A Scalable AI-Reinforced Digital Twin Build Platform for Modular Building and Community Infrastructure	Enabling capabilities	Artificial Intelligence	\$410,959
NSW	The University of New South Wales	IG250200055	SeeRock – AI-Driven Rock Mass Characterisation for Enhanced Mining Safety, Efficiency, and Sustainability	Value-add in resources	Critical and Strategic Minerals Processing	\$498,634
		IG250200060	Co-injection of hydrogen and biomass in blast furnaces for viable green ironmaking: from proof-of-concept to technology validation	Renewables and low emission technologies	Critical and Strategic Minerals Processing	\$398,528
		IG250200064	Neurofeedback assisted psychotherapy: combining artificial intelligence with neurotechnology to enable home-based therapy	Medical science	Artificial Intelligence	\$270,015
		IG250200085	TCC-Rehab: AI Empowered Closed-Loop Virtual Rehabilitation for the Older Person	Medical science	Artificial Intelligence	\$442,904
		IG250200154	Eco-friendly Onsite Disinfection Solution for Agrifood – Eliminating Bulk Hazardous Chemicals	Value-add in the agriculture forestry and fisheries sector	Advanced Manufacturing	\$395,700

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		IG250200175	Commercialisation of a Novel Ink Additive for High-Performance Perovskite Optoelectronic Devices	Renewables and low emission technologies	Renewable Energy	\$350,000
		IG250200187	Superconducting Nanowire Single Photon Detectors with Waveguide Integration	Enabling capabilities	Quantum	\$499,317
NSW	The University of New South Wales	IG250200235	Developing high-capacity dynamic mesh support for underground mines	Value-add in resources	Advanced Manufacturing	\$487,070
		IG250200245	Scalable Photonic Integrated Circuit Interrogator for Industrial Sensing with Chirped Fibre Bragg Gratings	Enabling capabilities	Advanced Manufacturing	\$377,795
		IG250200261	Australian Development Applications Intelligence	Enabling capabilities	Artificial Intelligence	\$496,954
		IG250200318	Commercialisation of solution-processed high bandgap Cu(In,Ga)S <sub>2</sub> solar cells for next generation tandem and indoor photovoltaic applications	Renewables and low emission technologies	Renewable Energy	\$441,058
		IG250200340	ARGOS: Accelerating Diagnostics for Rare Diseases using AI-powered Gene Panel Curation	Medical science	Artificial Intelligence	\$479,669
		IG250200360	Scalable Artificial Intelligence platform mapping Environmental, Social, Governance disclosures to regulatory materiality, for climate risk assessment, emission alignment, and translational insights	Renewables and low emission technologies	Artificial Intelligence	\$199,474
		IG250200388	Low-Cost Rapid Prototypes Driving Fast Boat Hull Innovation	Defence capability	Advanced Manufacturing	\$483,661
NSW	The University of New South Wales	IG250200452	Infrastructure Sequencing Engine (ISE): AI-enabled planning tool to coordinate housing growth with transport, utility, and community infrastructure delivery	Enabling capabilities	Artificial Intelligence	\$470,652

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		IG250200493	Engineering a next-generation zinc battery with improved durability, manufacturability and recycling for stationary energy systems	Renewables and low emission technologies	Advanced Manufacturing	\$297,304
		IG250200856	Ultra Secured Quantum-based Time Transfer	Defence capability	Quantum	\$427,188
		IG250200884	The Development of an AI-Powered Screening Tool for Childhood Speech Disorders, Say Check	Medical science	Artificial Intelligence	\$409,847
		IG250200930	V2G-Key – Unlocking Vehicle-to-Grid for Every Electric Vehicle	Renewables and low emission technologies	Renewable Energy	\$349,960
		IG250200933	Expanding the druggable proteome with high-throughput chemistry: a platform for endometriosis and other hard-to-treat diseases	Medical science	Advanced Manufacturing	\$179,800
		IG250200985	Low-cost, high-resolution mass spectrometry modules to advance healthcare, biotech and diagnostics	Enabling capabilities	Advanced Manufacturing	\$468,766
<b>NSW</b>	The University of Newcastle	IG250200525	Cutting Methane Emissions in Directional Gas Wells with Innovative Foam Lift Technology	Value-add in resources	Advanced Manufacturing	\$441,720
	The University of Sydney	IG250200099	A novel gas sensor for detecting methane	Renewables and low emission technologies	Renewable Energy	\$500,000
		IG250200155	Novel light activated bioglue for retinal repair	Medical science	Advanced Manufacturing	\$499,036
		IG250200386	Last-link Automation in Daily Retail Operations	Enabling capabilities	Artificial Intelligence	\$484,498
		IG250200463	Dry Dock Digitisation and Automation	Defence capability	Artificial Intelligence	\$499,200
		IG250200524	SureStock: Biomarker Driven Selection to Identify Feedlot-Ready Cattle	Value-add in the agriculture forestry and fisheries sector	Agriculture and Food Technology	\$489,710

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		IG250200575	An AI enabled medical device to halve toxicity, reduce hospital visits and expand access to prostate cancer radiotherapy	Medical science	Artificial Intelligence	\$499,916
		IG250200989	Enhanced Analgesic 1 (EA1) – A First-in-Class Non-Opioid Messenger Ribonucleic Acid (mRNA) Analgesic	Medical science	Advanced Manufacturing	\$500,000
		IG250201211	PanaceAI: An Integrated AI Platform for Precision Oncology Decision Support	Medical science	Artificial Intelligence	\$429,483
NSW	University of Technology Sydney	IG250200240	Scaling 'SeaRock' for advanced manufacturing of low-carbon biomasonry	Renewables and low emission technologies	Advanced Manufacturing	\$475,255
		IG250200288	Breaking the Barrier to Liquid Bioenergy Recovery from Sewage Sludge	Renewables and low emission technologies	Renewable Energy	\$199,156
		IG250200635	Millimeter-wave High Speed Intersatellite Communications Links for Small Satellites	Defence capability	Space	\$489,629
		IG250200756	SunIQ: AI Driven Audits for Next-Gen Solar Infrastructure	Renewables and low emission technologies	Renewable Energy	\$483,382
		IG250200929	Commercialising AI-Driven Integrated Amplifiers for Next-Generation Satellite Communications	Enabling capabilities	Space	\$397,795
		IG250201079	A2HCoder: AI-Driven Algorithm-to-Hardware Transformation Engine	Enabling capabilities	Artificial Intelligence	\$432,449
	University of Wollongong	IG250200116	An Intelligent Assistant for Secure and Reliable AI-generated Code	Enabling capabilities	Artificial Intelligence	\$166,183
		IG250200163	Sustainable regenerative wound healing products using Australian seaweed extracts	Medical science	Advanced Manufacturing	\$500,000
		IG250201228	Revolutionising Control of Prosthetic Hands with Multi-Modal Human-Machine Interfaces (MM-HMI)	Medical science	Artificial Intelligence	\$416,655
NSW	Western Sydney University	IG250200165	Scaling CO2 Concrete for Commercial Adoption: From Production Expansion to Industry Integration	Renewables and low emission technologies	Advanced Manufacturing	\$500,000

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QLD	Griffith University	IG250200533	Solvent-free phosphorus extraction from waste fire-extinguisher powder: pilot demonstration and commercialisation scale-up pathway	Renewables and low emission technologies	Advanced Manufacturing	\$498,644
		IG250200822	Smart Artificial Intelligence (AI) Tools Enabling More Efficient, Precise, and Consistent Cell Analysis and Subtyping for Thyroid Cancer Management	Medical science	Artificial Intelligence	\$476,165
		IG250200920	Protecting Pig Farming with rapid diagnostics and self-amplifying mRNA vaccine	Value-add in the agriculture forestry and fisheries sector	Agriculture and Food Technology	\$414,206
		IG250200942	Optimised High Voltage Silicon Carbide Transistor Prototype for Highly Efficient and Reduced Cost Power Conversion Systems	Enabling capabilities	Advanced Manufacturing	\$199,156
		IG250201168	Advancing a novel dual-stage malaria vaccine for global health challenges and defence preparedness	Defence capability	Advanced Manufacturing	\$312,296
QLD	James Cook University	IG250200297	Artificial Intelligence driven novel ear tag for critical cattle health monitoring	Value-add in the agriculture forestry and fisheries sector	Agriculture and Food Technology	\$480,079
		IG250200322	Scaling the precision fermentation of marine proteins	Value-add in the agriculture forestry and fisheries sector	Advanced Manufacturing	\$499,986
		IG250200363	Sugar-AI: Smart Sugarcane Health Monitoring Platform with Satellite Remote Sensing and Machine Learning	Value-add in the agriculture forestry and fisheries sector	Agriculture and Food Technology	\$299,733
		IG250201332	CRISPR-Enabled Barramundi: Advancing Gene Editing and Experimental-Scale Larval Rearing for Commercial Readiness	Value-add in the agriculture forestry and fisheries sector	Agriculture and Food Technology	\$362,188

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	Queensland University of Technology	IG250200190	Advanced manufacturing of laser-induced graphene sheets from biomass for thermal management of battery systems	Enabling capabilities	Advanced Manufacturing	\$308,610
		IG250200224	Adaptable, scalable and privacy-preserving AI for multi-institute, multi-modality healthcare data learning	Medical science	Artificial Intelligence	\$493,938
		IG250200269	Portable smoke taint sensors for wine industry	Value-add in the agriculture forestry and fisheries sector	Agriculture and Food Technology	\$455,847
QLD	Queensland University of Technology	IG250200338	Development of Advanced Functional Lignin-based Separators for High-Performance Sodium Ion Batteries	Renewables and low emission technologies	Renewable Energy	\$339,554
		IG250200401	Accelerating a biocatalytic process for commercial production of rare cannabinoids	Value-add in the agriculture forestry and fisheries sector	Advanced Manufacturing	\$299,986
		IG250200593	From Waste to Water Security: Low-Emission Granular Sludge Reactor Technology for PFAS and Ammonia Management	Renewables and low emission technologies	None	\$408,335
		IG250200733	Replacing Matrigel: Photocrosslinkable Lung ECM Hydrogels for Organoid Culture	Medical science	Advanced Manufacturing	\$470,364
	The University of Queensland	IG250200058	A New Generation of Power Grid Monitoring Device: Integration of AI-Enabled Edge Computing Technologies	Enabling capabilities	Artificial Intelligence	\$187,276
		IG250200106	Smart Photodynamic Technology for Postharvest Decay Management	Value-add in the agriculture forestry and fisheries sector	Agriculture and Food Technology	\$499,273
		IG250200131	Circular, Sustainable Bioeconomy – Transforming Cultivated Meat Production with Cost-Effective Amino Acids from Microalgae	Enabling capabilities	Agriculture and Food Technology	\$496,125

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		IG250200153	Sustainable Critical Minerals Processing Using Lamella-Plate Technology to Reduce Fine Waste Carryover	Value-add in resources	Critical and Strategic Minerals Processing	\$312,287
QLD	The University of Queensland	IG250200212	Cost-Effective Scalable Manufacturing of Biodegradable Wood-Plastic Composites for a Sustainable Plastics Future	Renewables and low emission technologies	Advanced Manufacturing	\$368,022
		IG250200223	Closed-Loop Electrochemical Upcycling of Lithium-Ion Battery Waste into High-Value Energy Materials	Value-add in resources	Critical and Strategic Minerals Processing	\$492,551
		IG250200299	Developing Next-Generation Natural Killer Cell Immunotherapies Targeting Oncofetal Receptors in Solid Cancers	Medical science	Advanced Manufacturing	\$498,124
		IG250200557	Advanced Upcycling of Per- and Polyfluorinated Substances in High-tech Industries	Renewables and low emission technologies	Advanced Manufacturing	\$258,396
		IG250200616	Portable and Affordable Paper-based Sensor Platform for Wine Quality Control	Value-add in the agriculture forestry and fisheries sector	Agriculture and Food Technology	\$300,300
		IG250200678	A proprietary feed additive for Australian farmed Atlantic salmon to control problematic gill disease	Value-add in the agriculture forestry and fisheries sector	Agriculture and Food Technology	\$496,842
		IG250200704	New vaccine technology for long-term flystrike prevention	Value-add in the agriculture forestry and fisheries sector	Agriculture and Food Technology	\$401,475
QLD	The University of Queensland	IG250200752	Additive Manufacturing of High-Performance Copper Components	Value-add in resources	Advanced Manufacturing	\$468,451
		IG250200760	Handheld Electromagnetic Probe for Real-Time and Non-Invasive Dental Vitality Assessment	Medical science	Advanced Manufacturing	\$452,070
		IG250200865	Next-generation Chimeric Antigen Receptor T cells: enhancing manufacturing	Medical science	Advanced Manufacturing	\$500,000

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			consistency and therapeutic durability via stress mitigation and exhaustion control			
		IG250200877	Advanced Drone Flight Control for Fire Fighting	Enabling capabilities	Artificial Intelligence	\$329,173
		IG250200965	Multifunctional composite skins for improved antenna performance in Defence platforms	Defence capability	Advanced Manufacturing	\$244,102
		IG250201037	Methane Oral Sample Test (MOST)	Renewables and low emission technologies	Agriculture and Food Technology	\$305,025
		IG250201084	Authentication and Provenance of Manipulated Media with Justification and Explanation for Non-Expert Users	Enabling capabilities	Artificial Intelligence	\$328,580
		IG250201196	Automating Security Testing of Quantum Safe Chips	Defence capability	Quantum	\$466,868
		IG250201276	Building AI Companions that Priorise Learning over Performance	Enabling capabilities	Artificial Intelligence	\$366,445
<b>QLD</b>	University of Southern Queensland	IG250200014	SafeBuild AI: Intelligent Safety and Efficiency for Construction SMEs	Enabling capabilities	Artificial Intelligence	\$474,886
		IG250200390	Sovereign High Speed Propulsion for Uncrewed Aerial Vehicles	Defence capability	Advanced Manufacturing	\$495,160
		IG250200896	Next-Generation Radioisotope Heat Sources Using Thulium Oxide Composites for Safer, Efficient Space Power	Enabling capabilities	Space	\$481,713
		IG250201083	Digitally integrated drone-based thermographic inspection of aerostructures	Transport	Artificial Intelligence	\$399,839
		IG250201179	Thermoplastic composite certification for aerospace, space, and defence: A smart sensing approach	Defence capability	Advanced Manufacturing	\$267,078
<b>SA</b>	Flinders University	IG250200142	Gold recovery technology for mining and e-waste recycling	Value-add in resources	Critical and Strategic Minerals Processing	\$500,000

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	The University of Adelaide	IG250200087	Next generation sensor for quality assurance and control in production of low carbon-cement and concrete	Renewables and low emission technologies	Critical and Strategic Minerals Processing	\$329,128
		IG250200307	HTpyro – photonics technology enabling Australia’s critical mineral processing	Value-add in resources	Critical and Strategic Minerals Processing	\$199,774
		IG250200339	Hollow-core optical fibres for next-generation optical gyroscopes	Defence capability	Quantum	\$499,945
SA	The University of Adelaide	IG250200348	Beef-COT: Advancing Intelligent Processing from Laboratory Validation to Industry Deployment	Value-add in the agriculture forestry and fisheries sector	Agriculture and Food Technology	\$197,057
		IG250200527	Revolutionising Mineral Processing: Innovative Sustainable Biotechnology Approach for Mineral Separation	Value-add in resources	Critical and Strategic Minerals Processing	\$422,174
		IG250200680	Plasma Seed Enhancement to Accelerate Australia’s Restoration Economy	Value-add in the agriculture forestry and fisheries sector	Agriculture and Food Technology	\$355,477
		IG250200836	Low-Cost Solar Concentrator for Thermal Energy Applications	Renewables and low emission technologies	Renewable Energy	\$269,067
	University of South Australia	IG250200724	Advancing a novel antibody drug conjugate to treat cancer.	Medical science	Advanced Manufacturing	\$499,999
TAS	University of Tasmania	IG250200903	Multi-Modal Space Object Rapid Cataloguing System	Defence capability	Space	\$459,900
		IG250201349	Advancing sensing technology for a multimodal surveillance system	Defence capability	Advanced Manufacturing	\$403,421
VIC	Deakin University	IG250200335	High-performance bioplastic developed from Biomass and Organic Waste	Renewables and low emission technologies	Advanced Manufacturing	\$499,130
		IG250200366	Powering Next-Generation Electronics with Engineered Diamond Heat Spreaders	Enabling capabilities	Advanced Manufacturing	\$499,445

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		IG250200380	From Lab to Prototype: Advancing Solid-State Hydrogen Storage – Safe, Compact, High-Density	Renewables and low emission technologies	Renewable Energy	\$499,034
		IG250200879	Beyond Black: The Future of Coloured Carbon Fibre	Enabling capabilities	Advanced Manufacturing	\$490,724
	Monash University	IG250200021	AEM Water Electrolyser for Affordable Hydrogen Generation	Renewables and low emission technologies	Sustainable Fuels	\$466,031
	IG250200141	Accelerating Translation of a First-in-Class Antibody Targeting Therapy-Resistant, Immune-Cold Ovarian Cancer	Medical science	Advanced Manufacturing	\$500,000	
	IG250200225	From Lab to Fab: Advancing a New Low-Energy Transistor Towards Large-scale Manufacturing	Enabling capabilities	Quantum	\$500,000	
	IG250200420	Revolutionising Food Quality Monitoring Using Microneedle Sensor Technology	Value-add in the agriculture forestry and fisheries sector	Agriculture and Food Technology	\$288,844	
VIC	Monash University	IG250200469	High-energy-efficiency electrolytic synthesis of green ammonia	Renewables and low emission technologies	Renewable Energy	\$499,145
		IG250200506	Rapid point-of-care tests for concussion management	Medical science	Artificial Intelligence	\$497,736
		IG250200773	Development of Novel Small Molecules for Therapeutic Intervention in Pulmonary Arterial Hypertension (PAH)	Medical science	Advanced Manufacturing	\$499,515
		IG250200806	Development of a Foundation Model for Vibrational Spectroscopy	Enabling capabilities	Artificial Intelligence	\$347,225
		IG250200889	Trust-Aware Adaptive AI for Next-Generation Water Utility Decision Support	Enabling capabilities	Artificial Intelligence	\$490,745
		IG250201007	Turning Waste to Wealth: Converting End-of-Life Tyres and Plastics into Energy Resources	Value-add in resources	Advanced Manufacturing	\$492,020

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		IG250201050	AI-Enhanced Mobile CASA for Clinical and Veterinary Use	Medical science	Advanced Manufacturing	\$497,299
		IG250201157	POSITIVF: Advancing Temperature-Stabilised IVF Aspiration Devices from Prototype to Clinical Validation for Improved Fertility Outcomes and Commercial Readiness	Medical science	Advanced Manufacturing	\$498,312
		IG250201226	Generative AI Tool Supporting Household Energy Planning	Renewables and low emission technologies	Renewable Energy	\$475,148
<b>VIC</b>	Monash University	IG250201266	A study of long-term thermal ageing and mechanical failure modes of Aeroperm - a breakthrough nanocrystalline magnetic material for smaller, lighter and more efficient electric motors	Transport	Critical and Strategic Minerals Processing	\$348,810
	RMIT University	IG250200069	Unlocking Quantum Imaging for Brain Health	Enabling capabilities	Quantum	\$496,816
		IG250200207	Manufacturing Building Blocks for Next-generation Electronics: Scalable Materials for Australia's Tech Future	Enabling capabilities	Advanced Manufacturing	\$448,496
		IG250200349	Universal Platform for Tissue Regeneration and Healing: Addressing Nerve Injury	Medical science	Advanced Manufacturing	\$498,856
		IG250200377	Integrated Neuromorphic Vision Sensor for Real-time Detection and Tracking	Defence capability	Space	\$425,572
		IG250200734	Neuromorphic Light-Field Receiver Module for Covert Satellite-to-Underwater Communication	Defence capability	Space	\$492,505
		IG250200754	Authentication technology for Australian Currency and Travel Documents	Enabling capabilities	Advanced Manufacturing	\$415,002
		IG250200998	RouteCharge: Smart Resource-Aware Routing and Charging for Electric Fleets	Enabling capabilities	Artificial Intelligence	\$499,858

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VIC	RMIT University	IG250201018	Accelerating Pavement Resilience: A Toolkit for Data Driven Predictive Road Asset Management Using AI	Enabling capabilities	Artificial Intelligence	\$479,162	
		IG250201246	Transforming Neonatal Care with a Rapid Diagnostic for Group B Streptococcus	Medical science	Advanced Manufacturing	\$500,000	
		IG250201256	Universal EV Charging Solution for a Renewable Energy Future	Renewables and low emission technologies	Advanced Manufacturing	\$500,000	
		IG250201301	Cutting Offshore Wind Energy Costs through AI-Enhanced Foundation Design	Enabling capabilities	Renewable Energy	\$499,860	
	Swinburne University of Technology	IG250200550	Zero Emissions Lithium and Battery Materials Made in Australia	Value-add in resources	Critical and Strategic Minerals Processing	\$497,364	
		IG250200553	Developing Novel Anode Materials for Green Metals Production via Molten Oxide Electrolysis	Renewables and low emission technologies	Critical and Strategic Minerals Processing	\$437,086	
		IG250200629	Towards the Development of a Lightweight Blunt-Ballistic Biphasic (Triple-B) Helmet	Defence capability	Advanced Manufacturing	\$199,995	
		IG250200778	Automated High-Rate Manufacturing of Advanced Thermoplastic Composite Structures for Next-Generation Uncrewed Aerial Systems	Enabling capabilities	Advanced Manufacturing	\$495,877	
	VIC	The University of Melbourne	IG250200020	Next-Generation AI-powered Bionic Arms Empowering Individuals with Upper Limb Loss	Medical science	Artificial Intelligence	\$475,850
			IG250200032	NeuroStent: A fully wireless endovascular stimulator for the treatment of drug-resistant epilepsy	Medical science	Advanced Manufacturing	\$472,380
IG250200070			Development of a novel microfluidic device for precision tear collection	Medical science	Advanced Manufacturing	\$295,074	
IG250200136			MyNE - A digital tool to reduce suicide risk in youth mental health	Medical science	Artificial Intelligence	\$177,482	

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		IG250200234	Scaling Novel Neuromedicines: Manufacturing and Targeting Next-Generation Brain Therapies	Medical science	Advanced Manufacturing	\$498,788
		IG250200275	AI-Driven Drug Discovery for Next-Generation STING Inhibitors	Medical science	Artificial Intelligence	\$496,348
		IG250200277	Reclaiming urine as fertiliser using innovative microbial electro-concentration technology (Ugold)	Value-add in the agriculture forestry and fisheries sector	Agriculture and Food Technology	\$339,318
		IG250200330	Enabling the development of novel biologic therapeutics for Crohn's Disease	Medical science	Artificial Intelligence	\$499,998
		IG250200336	Validation of advanced concrete recycling for circular construction	Renewables and low emission technologies	None	\$462,585
<b>VIC</b>	The University of Melbourne	IG250200404	QDO: Pixelated Quantum Dot SWIR Emitter and Detector	Enabling capabilities	Advanced Manufacturing	\$450,000
		IG250200439	Optimisation towards a low-cost and sustainable direct lithium extraction process	Value-add in resources	Critical and Strategic Minerals Processing	\$431,943
		IG250200473	LightEarth: Carbon-reduced and Lightweight Retaining Wall Sleeper	Renewables and low emission technologies	Advanced Manufacturing	\$432,364
		IG250200528	Ultra-Precise Location Tracking for Precision Agriculture: Beyond GPS Limitations	Enabling capabilities	Agriculture and Food Technology	\$324,503
		IG250200656	Compact Aerosolised Threat Exposure Monitor (CATEM)	Defence capability	None	\$495,428
		IG250200665	Advanced Peptide Manufacturing	Medical science	Advanced Manufacturing	\$370,410
		IG250200689	COVID-19 vaccine–boosted CAR T cells for solid tumours	Medical science	Advanced Manufacturing	\$481,428
		IG250200727	AQUAMARS: An Operational Tool for Assessing Surface Condition and Its Impact on Ship Performance	Renewables and low emission technologies	Artificial Intelligence	\$326,523

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		IG250200739	A Novel Non-GLP1 Drug for Metabolic Disease Treatment	Medical science	None	\$493,868
		IG250200901	THERMUL a novel, innovative AI solution to predict healing of diabetes related foot ulcers	Medical science	Artificial Intelligence	\$490,539
VIC	The University of Melbourne	IG250200910	A First-in-class Approach to Exploiting a Cancer-Selective RNA Processing Pathway for Targeted Therapy	Medical science	Advanced Manufacturing	\$500,000
		IG250200943	Developing first-in-class neurofibrosis inhibitors for Obesity and Type 2 Diabetes	Medical science	None	\$487,980
		IG250201071	Strongband: a next-generation reinforcement technology for unlocking low-grade timber for modern methods of construction	Renewables and low emission technologies	Advanced Manufacturing	\$350,000
		IG250201245	Up-scaling of high-performance adsorbents for direct air CO2 capture	Renewables and low emission technologies	Renewable Energy	\$377,718
		IG250201342	Industrial Decarbonization with Microwave-Driven Reactive CO2 Capture for a Net-Zero Future	Renewables and low emission technologies	Sustainable Fuels	\$342,718
		IG250201351	Generative Artificial Intelligence Powered Digital Twins for Women's Health and Endometriosis Care	Medical science	Artificial Intelligence	\$499,994
		IG250200444	Intelligent Wireless Communications with Millimetre-wave Radio and AI-enabled Edge for Robotics in Advanced Manufacturing	Enabling capabilities	Advanced Manufacturing	\$299,387
VIC	Victoria University	IG250200654	Advanced flame and electrical arc resistant cables for enhancing the fire safety of critical infrastructure	Enabling capabilities	Advanced Manufacturing	\$389,394

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WA	Curtin University	IG250200246	Green synthetic graphite for Australian-made lithium-ion batteries	Renewables and low emission technologies	Critical and Strategic Minerals Processing	\$439,664
		IG250200416	Sustainable Chlorinated Carbon Products from CO2 Electrolysis	Renewables and low emission technologies	Advanced Manufacturing	\$475,396
		IG250200491	Sustainable Fuel Production via Low Energy Activation of Carbon Dioxide and Methane	Renewables and low emission technologies	Sustainable Fuels	\$487,797
		IG250200769	AI-based tool for predicting microbiologically influenced corrosion and managing corrosion risk in the energy sector	Enabling capabilities	Artificial Intelligence	\$467,053
		IG250201219	ASTRAPOD: Sovereign real-time orbit determination for small satellites	Enabling capabilities	Space	\$473,794
	Edith Cowan University	IG250200312	Direct rubidium extraction: Establishing a new Australian rubidium industry through innovative, membrane-assisted processing.	Value-add in resources	Critical and Strategic Minerals Processing	\$403,942
WA	Edith Cowan University	IG250200759	Drone detection and jamming using radio frequency signals	Enabling capabilities	Advanced Manufacturing	\$471,401
	Murdoch University	IG250201257	AIREPRO: AI-powered Thermal-Vision Platform for Precision Reproductive Management in Dairy Cattle	Value-add in the agriculture forestry and fisheries sector	Artificial Intelligence	\$399,740
	The University of Western Australia	IG250200280	Bulk, through-put enantiomer separation using helical electromagnetic devices for pharmaceutical manufacturing	Enabling capabilities	Advanced Manufacturing	\$330,448
		IG250201296	Establishing GMP production of a biologic therapeutic for treating patients with atherosclerotic cardiovascular disease	Medical science	Advanced Manufacturing	\$500,000