Minister's Approval for Industrial Transformation Research Hubs for Funding Commencing in 2024 Schedule

Approved Organisation, Leader of Approved Research Program	Approved Research Program	Estimated and Approved Expenditure ($)		Indicative Funding ($)				Total ($)	Industrial Transformation Priorities	International Collaboration	Partner Organisation(s)
		2023-24	2024-25	2025-26*	2026-27*	2027-28*	2028-29*				
(Columns 1 and 2)	(Column 3)	(Column 4)	(Column 5)	(Column 6)	(Column 7)	(Column 8)	(Column 9)	(Column 10)	(Column 11)	(Column 12)	(Column 13)
New South Wales											
The University of New South Wales											
IH240100012 Shen, Prof Yansong	**ARC Research Hub for Photovoltaic Solar Panel Recycling and Sustainability (PVRS)** The Hub aims to transform Australia's photovoltaic (PV) solar panel recycling industry by developing advanced technologies of green PV recycling and materials reuse, redesigning PV panels for recycling and reliability and advancing policy informing by leveraging interdisciplinary expertise and collaborations across the value chain. It directly addresses Australia's National Net-Zero Plan and Waste Action Plan. Outcomes expected are industry translations of scalable PV recycling solutions and new panel designs, new supply chains, and Australia's R&D critical mass and workforce training, with environmental and economic benefits of PV waste reduction, new jobs and markets of onshore recycling chain and sustainable energy security in Australia.	500,000.00	1,000,000.00	1,000,000.00	1,000,000.00	1,000,000.00	500,000.00	5,000,000.00	Value-add in resources, Renewables and low emissions technologies, Enabling capabilities	Japan, China (excludes SARs and Taiwan), United States of America, Netherlands	RENEW MATERIALS PTY LTD, JINKO SOLAR, PV INDUSTRIES PTY LTD, CHINA ENFI ENGINEERING CORP., VISY INDUSTRIES AUSTRALIA PTY LTD, SINOSTEEL ANSHAN RESEARCH INSTITUTE OF THERMO-ENERGY CO., LTD, SOLAREC PTY LTD, SOLAR FRONTIER
	National Interest Test Statement The Hub directly addresses two Australia's National Plans – the Net-Zero 2050 Plan and the Waste Action 2030 Plan. i) In the Net-Zero 2050 Plan, Australia targets greenhouse gas emission reduction to Net Zero by 2050. This Hub directly addresses this Plan by promoting a green photovoltaic (PV) supply chain. Particularly, the redesigned PV panel with high reliability and long service life will enable reliable PV service in their massive installations in Australia; and the redesigned PV panel with ready recycling structure will allow a low-cost PV recycling at its end-of-life and thus reduce its recycling pressure and promote a further increase in PV installations, towards true Net-Zero 2050 target, even after the strict e-waste policy is applied in many regions in Australia and overseas in the near future. ii) In the Waste Action 2030 Plan, Australia targets to reduce total waste generated by 10% per person by 2030, recover 80% of all waste by 2030, significantly increase the use of recycled content, and provide data to support better decisions. This Hub directly addresses this Plan, by developing advanced PV recycling technologies, enabling their industry translations and demonstrating their transformation in Australia, PV recycling policy informing, building up an Australia critical R&D mass and training Australia's skilled workforce. This will allow highly efficient and high throughput green recycling and significantly reduce PV waste towards zero landfills in Australia.									
	The University of New South Wales	500,000.00	1,000,000.00	1,000,000.00	1,000,000.00	1,000,000.00	500,000.00	5,000,000.00			
University of Technology Sydney											
IH240100016 Liu, Prof Dikai	**ARC Research Hub for Human-Robot Teaming for Sustainable and Resilient Construction** This Hub aims to transform the construction industry by enabling intelligent robots and humans to work synergistically and safely together. The Australian construction industry is challenged by severe labour shortages, low productivity and significant work health and safety issues. A consortium of industry, regulatory bodies, end-user stakeholders and various academic disciplines will holistically investigate human-robot collaboration from technology, people, business and quality perspectives. Integrated, human-centric technologies are expected to	500,000.00	1,000,000.00	1,000,000.00	1,000,000.00	1,000,000.00	500,000.00	5,000,000.00	Enabling capabilities	United States of America, Germany, England, India	LAING O'ROURKE AUSTRALIA PTY LTD, SAFEWORK NSW, MAIN ROADS WESTERN AUSTRALIA, AUSTRALIAN CONSTRUCTORS ASSOCIATION LIMITED, GRAPHENEX PTY

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	transform ways of working, improve workforce diversity and longevity, and increase productivity, consequently improving Australian construction industry resilience and advancing sustainability.										LTD, OZBUILD, MODERN PAINTING GROUP PTY LTD, GEOAI, AZL HOLDINGS PTY LTD, KMK PROPERTY SOLUTIONS PTY LTD, TERRA MINING PTY LTD, BGC BUILDING GROUP PTY LTD, CORTEX AUTOMATION PTY LTD, TRACEY BRUNSTROM & HAMMOND PTY. LTD., AZURE MINING TECHNOLOGY PTY LTD, CROSS LAMINATED OFFSITE SOLUTIONS PTY LTD

National Interest Test Statement

This Hub focuses on developing human-centric technologies that enable intelligent robots and humans to work synergistically and safely together in construction. Humans and robots have not typically worked collaboratively on construction sites, nor information flowed readily between people and machines. Yet ‘human robot teaming’ has enormous potential to address challenges faced by Australia’s construction industry: chronic workforce shortages, safety and wellbeing, resilience and sustainability. To realise this potential, the Hub will holistically investigate integration of technology, people, business and quality in construction. Active involvement of 16 organisations from different sectors, including construction industry leaders, government regulators, consultants and end-users will ensure the research results are fit for rapid adoption by the construction sector and embraced by its workers. The outcomes will transform ways of working in construction, with positive consequences. The workforce diversity, capability, and longevity will improve with higher safety and wellbeing. Sustainability will rise with increased productivity and profitability, and reduced construction waste and energy use. The industry will be more resilient, quickly adapting to changing situations while assuring quality. The Hub will engage with the broader sector through promotion at nation-wide industry fairs and conventions, and with the general public through outreach programs and media presence.

University of Technology Sydney	500,000.00	1,000,000.00	1,000,000.00	1,000,000.00	1,000,000.00	500,000.00	5,000,000.00
New South Wales	1,000,000.00	2,000,000.00	2,000,000.00	2,000,000.00	2,000,000.00	1,000,000.00	10,000,000.00

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Queensland											
Queensland University of Technology											
IH240100014 Liu, Prof Yang	**ARC Research Hub in the Internet of Things for Water** The ARC Research Hub in the Internet of Things for Water aims to position Australia as a global leader in digital technologies for the water sector. The Hub expects to transform Australian capabilities by delivering cutting-edge technologies, and novel visualisation and analytics methods, supported by new business models. Expected outcomes include enhanced capabilities to secure water for industry, society and the environment, and improve our productivity through new water management techniques. The Hub will benefit Australia by opening up market opportunities for technology developers, manufacturers, and service providers, ensuring cost-efficiencies, improved equity, and heightened environmental protection for Australian water resources.	500,000.00	1,000,000.00	1,000,000.00	1,000,000.00	1,000,000.00	500,000.00	5,000,000.00	Enabling capabilities, Value-add in the agriculture, forestry and fisheries sectors, Value-add in resources, Transport	United States of America, Denmark, Canada, France, Singapore, Israel	MELBOURNE WATER CORPORATION, SOUTH AUSTRALIAN WATER CORPORATION, WATER CORPORATION, WATER NSW, BLUE IOT PTY LTD, TINYSINE ELECTRONICS, CENTRAL HIGHLANDS WATER, CITY OF PORT PHILLIP, EPA VICTORIA, HUNTER WATER CORPORATION, HARC SERVICES PTY LTD, ICON WATER LIMITED, THERMO FISHER SCIENTIFIC AUSTRALIA PTY LTD, ENTECH ELECTRONICS PTY LTD, INTELLIGENT WATER NETWORKS, CITY OF WHITTLESEA, MELBOURNE CITY COUNCIL (CITY OF MELBOURNE), E2 DESIGN PTY LTD, EXA PRODUCT DEVELOPMENT, WATER RESEARCH AUSTRALIA LIMITED, WATER SERVICES ASSOCIATION OF AUSTRALIA LIMITED, WATER SOURCE AUSTRALIA PTY LTD, BARWON REGION WATER CORPORATION, MERRI-BEK CITY COUNCIL, ALLUVIUM CONSULTING AUSTRALIA PTY LTD, WATER TECHNOLOGY PTY. LTD., BLACKTOWN CITY COUNCIL, SOUTHERN CALIFORNIA COASTAL

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											WATER RESEARCH PROJECT, SEQWATER, ECOT PTY LTD, ECO-ENVIRONMENTAL RESEARCH AND DEVELOPMENT CENTER OF CHINA RAILWAY GROUP LIMITED, DATELLITE PTY LTD, SOUTH EAST WATER CORPORATION, GREATER WESTERN WATER, SYDNEY WATER CORPORATION, DEPARTMENT OF ENVIRONMENT AND SCIENCE

National Interest Test Statement

Australia’s water systems face increasingly apparent threats from population growth, from climate change and variability (including droughts and flooding) and from aging infrastructure. But Australia also has an opportunity to become an international market-leader in digital technologies to create new, more efficient, cost-effective and more sustainable water infrastructure. The advent of the real-time monitoring and control technologies opens up new possibilities for the water sector, but also for consumers to become part of the solutions to water management challenges. The ARC Research Hub in the Internet of Things for Water aims to drive the water industry’s transformation towards a future where digital technologies allow genuine integrated water management that secures water for industry, businesses and consumers, reduce costs to consumers, better engages society and protects the environment. We aim to establish Australia as a leader in smart water technologies, opening us to a market which is estimated at over $10 billion/year in the US alone. The Hub comes from a five-year Australia-wide industry-driven process, and involves 40 partners from across the water sector, including technology developers and manufacturers, telecommunications providers and cybersecurity service providers, with the aim of accelerating the path to market for Australian-led digital water technologies.

Queensland University of Technology	500,000.00	1,000,000.00	1,000,000.00	1,000,000.00	1,000,000.00	500,000.00	5,000,000.00	
Queensland	500,000.00	1,000,000.00	1,000,000.00	1,000,000.00	1,000,000.00	500,000.00	5,000,000.00	

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Victoria											
La Trobe University											
IH240100013 Hogan, Prof Conor F	**ARC Research Hub for Molecular Biosensors at Point-of-Use (MOBIUS)** The Hub's primary goal is to accelerate the growth of Australia's emerging biosensing industry. It aims to bridge the gap between university research and industry, while also nurturing future leaders in the field. This initiative will significantly enhance the Australian biotechnology sector, focusing on increasing production capacity and establishing new sovereign capability. Traditionally limited to healthcare, point-of-need biosensing technologies will now find uses in agriculture, food production, defence, biosecurity, and environmental protection. This expansion is expected to yield significant economic advantages and societal benefits through the accessibility of new, transformative technologies across key employment areas.	473,132.50	946,265.00	946,265.00	946,265.00	946,265.00	473,132.50	4,731,325.00	Enabling capabilities	United States of America, Sweden, New Zealand, Singapore	ACCURIX BIO PTY LTD, AGSCENT PTY LTD, ANTEOTECH LTD, BORON MOLECULAR PTY LIMITED, CELLINK , CERAMIC OXIDE FABRICATORS (AUST) PTY LTD, COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION, DMTC LIMITED, PROTON INTELLIGENCE AUSTRALIA PTY LTD, LB AGTECH HOLDINGS PTY LTD, LUBRIS BIOPHARMA LLC, MINOMIC INTERNATIONAL LTD, NEXGEN NANOSENSORS PTY LTD, OPTOTECH PTY. LTD., ORINNO TECHNOLOGY PTE. LTD., POREX LIFE SCIENCES INSTITUTE, RA BIOTECH LTD , SYMEX LABS PTY LTD, VICTORIA POLICE, VLEPIS PTY LTD

National Interest Test Statement

The Hub will develop a range of biosensing technologies for point of use applications ranging from biothreat detection to health testing. It will address the imperative that we build Australia's sovereign manufacturing capability in this sector. Australia has a significant capability gap for the development and production of biosensing devices, as became very clear during the recent pandemic with the scarcity of on-shore rapid antigen tests. The ability to make such measurements at the point of need rather than sending a sample to a laboratory has already had profound impacts for many Australians during Covid. The Hub will expand that impact into new fields such as food, environmental and agricultural testing. With the market for biosensing technologies predicted to grow at a compound annual growth rate of 4%, on-shore manufacture resulting from hub outcomes will stimulate significant economic benefits for Australia,

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	boosting our biotechnology sector and creating new highly skilled jobs. Close partnerships with industry and informed, embedded graduates will ensure effective translation for a transformed industry.										
IH240100024 Bacic, Prof Tony	**ARC Research Hub for Protected Cropping** The Research Hub for Protected Cropping (PC Hub) aims to transform the production of high quality horticultural and medicinal crops into an integrated, national industry that spans primary producers and manufacturers. This will be achieved by establishing a multi-disciplinary Hub in collaboration with industry that addresses knowledge gaps in the protected cropping (PC) sector, including plant health and breeding, waste valorisation, digital technologies, novel extraction technologies and chemistries, through to the discovery and functional characterisation of bioactives. The resulting knowledge will be applicable across related industries and will build the specialised workforce needed to underpin Australia's developing PC industries.	500,000.00	1,000,000.00	1,000,000.00	1,000,000.00	1,000,000.00	500,000.00	5,000,000.00	Value-add in the agriculture, forestry and fisheries sectors, Enabling capabilities	Netherlands, Scotland, Germany, Canada, Czech Republic	THE FLOREY INSTITUTE OF NEUROSCIENCE AND MENTAL HEALTH, CANN GROUP LIMITED, BIOPLATFORMS AUSTRALIA LTD, PHOTON SYSTEMS INSTRUMENTS, INTELLIGENT GROWTH SOLUTIONS, GAIA PROJECT AUSTRALIA PTY LTD, SPEXAI, PHYTOGRO HOLDINGS PTY LTD
	National Interest Test Statement Protected cropping (PC) produces more reliable and higher quality produce with fewer inputs (eg land, water, fertiliser, energy). Yet Australia's PC industry is small: 14,000 ha (17% horticultural production) grown under PC in largely low technology facilities. The Australian PC Strategy (2021-30) highlights that widescale adoption of PC is hindered by sub-optimal varieties, limited knowledge of its specific nutrition requirements, temperature, light quality, developmental traits, and digital monitoring or technological intervention required to generate optimised output of horticultural and medicinal crops. Conversion of valuable agricultural waste is also needed to develop new products, enabling increased profitability and sustainability. This Hub's program has been co-designed with consumers, producers and policy makers, and will leverage existing investments in state-of-the-art plant phenotyping facilities and molecular, cellular, digital and imaging technologies. Innovative research in PC will enable Australian growers and producers to increase the yield and quality of produce and create higher-value premium food products and plant-based medicines in a more sustainable manner. By doing so, and through promotion of outcomes via industry and peak bodies, the program will benefit consumers and the Australian economy and enable a robust, profitable and sustainable export-oriented PC industry, adding an estimated $200+M in national value-add, and over 2,000 direct jobs.										
	La Trobe University	973,132.50	1,946,265.00	1,946,265.00	1,946,265.00	1,946,265.00	973,132.50	9,731,325.00			
Monash University											
IH240100006 Duan, Prof Wenhui	**ARC Research Hub for Infrastructure Net Zero** The NetZero Hub aims to transform Australia's construction sector through digitalising the infrastructure lifecycle for net-zero, targeting challenges like excessive carbon emissions and outdated practices, which currently impede sustainability. In line with Australia's 2030 Digital Economy Strategy, the Hub utilises infrastructure digital twins, integrated with low-carbon materials, eco-friendly structural designs, and state-of-the-art operation and maintenance methods to reinvent the performance and profitability of the infrastructure industry, a critical national economic and employment sector. It will help Australia meet its commitment to net-zero emissions by 2050, and drive a data-driven sustainable industrial revolution.	500,000.00	1,000,000.00	1,000,000.00	1,000,000.00	1,000,000.00	500,000.00	5,000,000.00	Renewables and low emissions technologies, Enabling capabilities	Singapore, United States of America	AIBUILD PTY LTD, IBUILD BUILDING SOLUTIONS, CONTEGRITY PTY LTD, ILLUMIDENT PTY LTD, INTRAX CONSULTING GROUP PTY LTD, AUIC PTY LTD, STAR COMBO AUSTRALIA PTY LTD, NU-ROCK TECHNOLOGY PTY LIMITED, KNOX CITY COUNCIL, ARRB

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											GROUP LTD, VETALI ENGINEERS PTY LTD, HAWK MEASUREMENT SYSTEMS PTY. LTD., ADELAIDE HOLDINGS PTY LTD, GEOENGINEERING SOLUTIONS & SERVICES PTY LTD, CSF ROBOTICS PTY LTD, HBM GROUP PROPERTIES PTY LIMITED, ETEX AUSTRALIA PTY LTD
	National Interest Test Statement The construction industry is responsible for nearly a quarter of Australia's carbon footprint. The NetZero Hub addresses the critical research gap of reducing carbon emissions in infrastructure lifecycle. It will collaborate with industry to introduce digital twins (computational models) powered by AI, robotics, and sustainable practices, into everyday business. This innovation modernises both construction and maintenance, promising reduced overheads, heightened performance, and Australia's transition to a data-driven low carbon industrial revolution. The Hub's benefits to Australians extend beyond economic gains, advancing environmental, social and cultural dimensions. By backing sustainable techniques, it bolsters Australia's pursuit of net-zero emissions by 2050 and positively impacts the environment and quality of life through efficient resource usage and waste reduction. The widespread adoption of AI, robotics, and digital twin technologies cultivates a technological culture, contributing to an innovative and progressive society. The Hub's close partnership with the construction industry will ensure widespread adoption of disruptive technology at both local and international levels. Its pioneering role enhances Australia's global profile, making it an attractive destination for international collaborations and investments, while its expertise in cutting-edge sustainable construction technologies positions the nation at the forefront of innovation in the industry.										
	Monash University	500,000.00	1,000,000.00	1,000,000.00	1,000,000.00	1,000,000.00	500,000.00	5,000,000.00			
RMIT University											
IH240100009 Ma, Prof Tianyi	**ARC Research Hub for Intelligent Energy Efficiency in Future Protected Cropping** This project aims to pioneer solutions in renewable energy, plant quality enhancement, intelligent greenhouse monitoring and analysis to drive forward the vast potential of protected cropping. This project expects to transform the agricultural sector by creating a robust framework positioning Australia at the forefront of protected cropping. Expected outcomes include advanced energy technologies for greenhouses enabling them to be self-sustained, affordable, and powered by renewable energy, and new automated decision-making techniques for farmers. This should provide significant benefits in agriculture including increased efficiency and environmental sustainability, jobs, optimised resource use, and improved crop yields and food security.	500,000.00	1,000,000.00	1,000,000.00	1,000,000.00	1,000,000.00	500,000.00	5,000,000.00	Renewables and low emissions technologies, Value-add in the agriculture, forestry and fisheries sectors, Value-add in resources	United States of America, Singapore, Malaysia, Thailand	INNOFOCUS PHOTONICS TECHNOLOGY PTY LTD, SOUTH EAST WATER CORPORATION, ADVANCED CARBON ENGINEERING PTY LTD, VECOR TECHNOLOGIES PTY LTD, CLEARVUE TECHNOLOGIES LIMITED, GRAPHENEX PTY LTD, GREENSPACE ESG PTY LIMITED, SUNBEAM TECHNOLOGIES PTY

* Note - Indicative funding for approved projects will be made available through a funding variation under section 54 of the ARC Act

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											LTD, GREENPLUS AUS PTY LTD, PROTECTED CROPPING AUSTRALIA LTD, AI REIMAGINED PTY LTD, COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION, EVIDENT AUSTRALIA PTY LTD

National Interest Test Statement

The ARC Research Hub for Intelligent Energy Efficiency in Future Protected Cropping represents a pivotal step in aligning national research initiatives with the country's strategic interests in renewable energy and sustainable agriculture. The Hub will integrate renewable energy technologies with protected cropping systems, a move that addresses Australia's growing need for sustainable food production methods amidst the challenges of climate change. By focusing on holistic renewable energy solutions specific to protected cropping, the Hub will enhance the efficiency and sustainability of food production and food security and contribute to reducing the environmental impact of conventional agricultural practices. This is particularly relevant for Australia, considering its unique climatic conditions and commitment to environmental stewardship. The Hub's research will generate significant economic benefits by fostering advanced materials and renewable energy technologies, creating job opportunities in the green technology sector, and reinforcing Australia's position as a leader in sustainable energy deployment. The outcomes of this Hub will provide valuable insights and scalable models that will be shared through collaborations with industry, promoted through an annual symposium, a biennial international conference, and industry events and workshops. The Hub addresses global challenges of energy efficiency and sustainable food production in the face of environmental constraints.

RMIT University	500,000.00	1,000,000.00	1,000,000.00	1,000,000.00	1,000,000.00	500,000.00	5,000,000.00
Victoria	1,973,132.50	3,946,265.00	3,946,265.00	3,946,265.00	3,946,265.00	1,973,132.50	19,731,325.00
	3,473,132.50	**6,946,265.00**	**6,946,265.00**	**6,946,265.00**	**6,946,265.00**	**3,473,132.50**	**34,731,325.00**