

Successful recipients of the Australia-Germany Joint Research Cooperation Scheme 2024

Australian University	Project Title	German University/Institution
Deakin University	Enhancing physical understanding of solid state metal recycling technique Friction Extrusion	Leuphana University Lüneburg and Helmholtz-Zentrum Hereon
Flinders University	Polarity of Liquid Surfaces as Driving for the Adsorption of Ions at the Surface	Fritz Haber Institute of the Max Planck Society
Flinders University	LumiWind – Mechanoluminescent material for digitalised filament winding monitoring and non-destructive test of fibre reinforcement composites for hydrogen storage	University of Bayreuth
Griffith University	Optimising VR-Based Tools for Adolescent Alcohol and Other Drug Prevention	Institute of Health & Nursing Science
La Trobe University and Monash University	From Light to Lithic: Differentiating microbial photosynthetic and chemosynthetic primary production in cave ecosystems	University of Bayreuth
Macquarie University	Developing a point-of-need testing (PONT) platform for in vitro cancer diagnosis	University of Duisburg-Essen
Monash University	Engineering glycopeptide antibiotic biosynthesis to produce novel antibiotics	Eberhard Karls University of Tübingen
Monash University	Control of heterojunction alignment in organic solar cells	University of Bayreuth
Queensland University of Technology	Multiphoton Imaging of Engineered Microfluidic Organ-on-Chips	Friedrich Alexander University Erlangen-Nürnberg
Queensland University of Technology	New Approaches to Mapping News Media Polarisation and News Engagement	Leibniz Institute for Media Research Hans-Bredow-Institut
Queensland University of Technology	Multiscale mechanobiological simulations of osteoporosis treatments	Technische Hochschule Nürnberg Georg Simon Ohm
RMIT University	Enhanced 3D printed Titanium alloys with nano-particle additions	University of Duisburg-Essen
Swinburne University of Technology	Combining Deep Observations and Supercomputer Simulations to Probe Galaxy Dark Matter Halos	Ludwig Maximilian University
Swinburne University of Technology	Enhanced Lightning Protection for Carbon Fiber Composites Using Metal and Carbon Nanoparticles	Leibniz-Institut für Verbundwerkstoffe GmbH
The Australian National University	Small-scale Magnetic Fields in the Milky Way and the Magellanic Clouds Using Square Kilometre Array Precursors	Max Planck Institute for Radio Astronomy
The University of Adelaide	Microlasers to enhance volumetric imaging	University of Cologne
The University of Adelaide	Robust Enhancement of All-fibre Laser For the Layering Advancement of Mid-Infrared Emission (REAL FLAME)	Leibniz Institute of Photonic Technology
The University of Melbourne	Identifying variant surface antigens expressed by parasites causing severe malaria	Bernhard Nocht Institute for Tropical Medicine

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The University of Melbourne	Photoswitchable QD Arrays for Next Generation All-Optical Logic	University of Bayreuth
The University of Melbourne	Structure and function assessment in iPSC derived muscle organoids	University of Erlangen-Nürnberg
The University of Newcastle	Can tropical cyclone fingerprints be found in Australian tree rings? A pilot study using palaeotempestology	Helmholtz Centre Potsdam German Research Centre for Geosciences
The University of Newcastle	Innovative Strategies for Resilient and Sustainable Port-Hinterland Transport	Technical University of Braunschweig
The University of Queensland	MOBSTER: Integrating antimicrobial resistance gene mobility analysis into surveillance to estimate risks	Dresden University of Technology
The University of Queensland	A multidisciplinary approach to investigate the effect of multiple environmental exposures and genetics on respiratory health and lung trajectories in Germany and Australia (AGREE Study)	Leibniz Research Institute for Environmental Medicine
The University of Sydney	Critical AI Literacy as Digital Citizenship Competence	Leibniz University Hannover
University of Southern Queensland	Advancement of reforming techniques for low-carbon emission and sustainable thermoplastic GFRP rebar for resilient infrastructure	Fraunhofer Institute for Casting, Composite and Processing Technology IGCV
University of Technology Sydney	Toolbox for start-ups for designing convergent business models	Ruhr University Bochum
University of Wollongong	In-vitro study investigating biological and physical effects of microbeams on tumor cells depending on target field size and dose rate at the German and Australian synchrotron sources	University of Rostock
UNSW	Utilizing Advanced Scaffold Fabrication Technologies for Functional Cardiac Implants	The University Hospital of Würzburg
UNSW	Subjective views of ageing and their dynamic interplay with cognitive performance: A cross-national study	Humboldt University of Berlin
UNSW	Archetypes for Resilient Underground Structures under Thermal Changes (ArcRUS)	Karlsruhe Institute of Technology
Western Sydney University	Trait-based understanding of diverse fungal responses to global change	Freie Universität Berlin