



**Australian Government**  
**Department of Industry, Science,**  
**Energy and Resources**

**Projects and workshops funded under the Australia-India Strategic Research Fund as at July 2021**

Reference Number	Round	Award Year	Priority Area	Project Title	Activity Type	Australian Lead Organisation	Australian Project Manager	Indian Lead Organisation	Aust Govt Grant
BF010002	1	2007	Vaccines / medical diagnostics	A shield and sword approach to control streptococcal infections	Collaborative Research Project	Queensland Institute of Medical Research	Dr K S Sriprakash	Indian Institute of Science	\$536,000
BF010018	1	2007	Vaccines / medical diagnostics	Raman spectroscopy and imaging for understanding molecular processes in live cells	Workshop in India	Monash University	Professor Don McNaughton	Indian Institute of Science	\$15,500
BF010019	1	2007	Vaccines / medical diagnostics	Establishing a "risk assessment chip" for the eye disease age related macular degeneration (AMD)	Collaborative Research Project	Centre for Eye Research Australia Ltd	Professor Paul Baird	LV Prasad Eye Institute	\$448,000
BF010024	1	2007	Nutraceuticals and Functional Foods	Milk nutraceuticals: a biotechnology opportunity for Australian and Indian dairy producers	Collaborative Research Project	University of Melbourne	Dr Sally Gras	Jadavpur University	\$342,328
BF010026	1	2007	Bioremediation	Enabling technologies for the enzymatic bioremediation of cyclic organochlorine residues	Collaborative Research Project	Commonwealth Scientific and Industrial Research Organisation (CSIRO)	Dr John Oakeshott	University of Delhi	\$518,637
BF010028	1	2007	Transgenic Crops and Marker-assisted Breeding	Genetic enhancement of chickpeas (Cicer arietinum L) using a two gene strategy to confer protection against Pod Borer (Helicoverpa armigera)	Collaborative Research Project	Commonwealth Scientific and Industrial Research Organisation (CSIRO)	Dr TJ Higgins	Assam Agricultural University	\$192,500
BF010049	1	2007	Biomedical Devices and Implants	Biosynthetic silk-hydrogel extracellular matrix analogues for mammalian cell support and drug delivery	Collaborative Research Project	University of New South Wales	Dr Laura Poole-Warren	Indian Institute of Technology Kharagpur	\$232,572
BF010055	1	2007	Transgenic Crops and Marker-assisted Breeding	RNA interference as an antiviral mechanism against hepatopancreatic parvovirus	Collaborative Research Project	James Cook University	Professor Leigh Owens	Karnataka Veterinary, Animal and Fisheries Sciences University	\$40,625
ST010002	1	2007	Environment Sciences (including climate change research)	Advanced Oxidation Processes for the Degradation of Organic Pollutants in Aqueous Environments	Collaborative Research Project	University of Melbourne	Associate Professor Muthupandian Ashokkumar	Madurai Kamaraj University	\$374,000
ST010003	1	2007	Agricultural Research	Eco-geographical and physiological approaches to improve chilling tolerance in chickpea in Australia and India	Collaborative Research Project	Commonwealth Scientific and Industrial Research Organisation (CSIRO)	Dr Jens Berger	Punjab Agricultural University	\$380,000
ST010005	1	2007	Environment Sciences (including climate change research)	Synthesis and characterization of doped iron oxide nanoparticles for selective removal of dissolved species from contaminated water / hydrometallurgical process solutions	Collaborative Research Project	Murdoch University	Professor Pritam Singh	CSIR Regional Research Laboratory Bhubaneswar	\$282,000
ST010006	1	2007	Astronomy & Astrophysics	Developing the Swinburne software correlator to process data from the Indian Giant Metre Wave Radio Telescope, for enhanced low frequency astrophysics	Collaborative Research Project	Swinburne University of Technology	Dr Ramesh Bhat	National Centre for Radio Astrophysics	\$20,000
ST010007	1	2007	Agricultural Research	Meiosis in wheat and rice: are the interactions and regulation of this process conserved between other diverse eukaryote organisms?	Collaborative Research Project	University of Adelaide	Dr Jason Able	University of Delhi	\$322,500
ST010009	1	2007	Agricultural Research	Research opportunities on effective technologies to increase the performance and adoption of conservation tillage	Workshop in India	University of South Australia	Dr Jack Desbiolles	Tamil Nadu Agricultural University	\$17,100
ST010013	1	2007	Nanotechnology	Developing Molecularly targeted polymer nanoparticles for cancer therapeutics and diagnostics	Collaborative Research Project	Deakin University	Associate Professor Wei Duan	Vision Research Foundation Sankara Nethralaya	\$321,219
ST010014	1	2007	Micro-electronics Devices and Materials	Exploiting Crystallographic Texture for Improved Nano-Crystalline Metals	Collaborative Research Project	Deakin University	Associate Professor Matthew Barnett	Indian Institute of Technology Kanpur	\$328,315
ST010016	1	2007	Micro-electronics Devices and Materials	Multifunctional Zinc Oxide Films for Acoustic and Optoelectronics Sensing Device Applications	Collaborative Research Project	Australian National University	Professor Chennupati Jagadish	University of Delhi	\$107,469
ST010030	1	2007	Nanotechnology	Processing of Smart Biodegradable Polymeric Composites	Collaborative Research Project	Royal Melbourne Institute of Technology	Professor Sati Bhattacharya	Indian Institute of Technology Delhi	\$16,300
ST010042	1	2007	Astronomy & Astrophysics	Galaxies in the Local Volume	Workshop in Australia	Commonwealth Scientific and Industrial Research Organisation (CSIRO)	Dr Baerbel Koribalski	National Centre for Radio Astrophysics	\$17,650
ST010072	1	2007	Environment Sciences (including climate change research)	Developing strategic alliances and capability linkages between CSIRO and Indian textile R&D organisations	Workshop in India	Commonwealth Scientific and Industrial Research Organisation (CSIRO)	Mr Tim Head	Bombay Textile Research Association	\$10,900
TA010001	1	2007	N/A	The establishment of a strategic partnership between the Commonwealth Scientific and Industrial Research Organisation (CSIRO) and India's Council of Scientific and	N/A	Commonwealth Scientific and Industrial Research Organisation (CSIRO)	Ms Kaye Britten	Council of Scientific and Industrial Research	\$3,500,000
TA010002	1	2007	N/A	Establishment and operation of a joint research academy between Monash University and the Indian Institute of Technology at Bombay	N/A	Monash University	Professor Tam Sridhar	Indian Institute of Technology Bombay	\$1,500,000
BF020007	2	2008	Nutraceuticals and Functional Foods	Esterified starch and oral rehydration solution as a treatment for acute infectious diarrhoea	Collaborative Research Project	Commonwealth Scientific and Industrial Research Organisation (CSIRO)	Dr Julie Clarke	Christian Medical College, Vellore	\$305,752
BF020032	2	2008	Bioremediation	Bioremediation of oil-contaminated marine and freshwater environments	Collaborative Research Project	Flinders University	Professor Andrew Ball	The Energy and Resources Institute	\$400,000
BF020053	2	2008	Transgenic Crops and Marker-assisted Breeding	Sustainability of pyramided Bt genes for insect control in crop plants	Collaborative Research Project	University of Melbourne	Associate Professor Philip Batterham	The Energy and Resources Institute	\$400,000
BF020055	2	2008	Vaccines / medical diagnostics	Developing a Global Blueprint for Zero PCG: Towards a Complete Understanding of the Molecular Basis of Primary Congenital Glaucoma (PCG)	Collaborative Research Project	University of Western Australia	Professor Luba Kalaydjieva	LV Prasad Eye Institute	\$125,500
BF020056	2	2008	Nutraceuticals and Functional Foods	Plant Nutraceuticals and Bioactive Molecules: A growth opportunity for the pharmaceutical industry in Australia and India	Workshop in India	University of Sydney	Mr Stephen Brancatisano	JSS College of Pharmacy	\$20,579
BF020074	2	2008	Biomedical Devices and Implants	An Advanced Surface for the Cell Therapy of Limbal Epithelium for Ocular Surface Disease: Proof of Concept and Clinical Trials	Collaborative Research Project	Centre for Eye Research Australia Ltd	Dr Mark Daniell	LV Prasad Eye Institute	\$400,000
BF020079	2	2008	Bioremediation	Development and optimization of combined plant/microbe technologies for bioremediation of soils contaminated with hydrocarbons and heavy metals	Workshop in India	University of Sydney	Associate Professor Balwant Singh	Institute of Advanced Study in Science & Technology	\$15,000
BF020084	2	2008	Stem Cells	Endogenous Adult Cardiac Stem Cells: Genome Wide Analysis of Multipotency and Differentiation in Homeostasis and Regeneration	Collaborative Research Project	Victor Chang Cardiac Research Institute	Professor Richard Harvey	Centre for Cellular and Molecular Biology	\$400,000
ST020009	2	2008	Agricultural Research	Identification of molecular markers closely linked with stem rust resistance genes in wheat	Collaborative Research Project	University of Sydney	Dr Harbans Bariana	National Chemical Laboratory	\$310,477
ST020050	2	2008	Nanotechnology	Fluid flow and lubrication on the nanometre scale	Collaborative Research Project	University of South Australia	Dr Rossen Sedev	Indian Institute of Science	\$292,200
ST020055	2	2008	Nanotechnology	Catalytic conversion of carbohydrates as renewable raw materials to key platform chemicals using novel metal supported mesoporous materials	Collaborative Research Project	University of Queensland	Professor Max Lu	Indian Institute of Technology Madras	\$326,568
ST020066	2	2008	Environment Sciences (including climate change research)	Re-establish trace gas monitoring of climate-forcing gases at Cape Rama, India	Collaborative Research Project	Commonwealth Scientific and Industrial Research Organisation (CSIRO)	Dr Paul Fraser	National Institute of Oceanography	\$40,500
ST020071	2	2008	Astronomy & Astrophysics	Development of the Giant Metrewave Radio Telescope for pulsar astrophysics and Square Kilometre Array demonstration	Collaborative Research Project	Swinburne University of Technology	Professor Matthew Bailes	National Centre for Radio Astrophysics	\$350,000
ST020078	2	2008	Micro-electronics Devices and Materials	Hybrid Magnetoelectric Nanostructures : Optimizing interface coupling for enhanced functionality	Collaborative Research Project	University of New South Wales	Dr Nagarajan Valanoor	National Chemical Laboratory	\$324,500



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ST020144	2	2008	Renewable Energy	Technical and economic assessment of improved Solar Photovoltaic Linear Concentrators and determination of market potential in India	Collaborative Research Project	Australian National University	Dr Andrew Blakers	Anna University	\$382,021
TA020002	2	2008	N/A	Protecting Critical Infrastructure from Denial of Service Attacks	N/A	Queensland University of Technology	Professor Ed Dawson	Indian Institute of Technology Madras	\$2,250,000
TA020003	2	2008	N/A	Workshop: 'NANOCOMPOSITES' For Electronics, Light yet Strong Engineering Applications, Coatings, Fuel Cell and Clean Energy Use	N/A	University of New South Wales	Dr Leigh Schwartzkoff	Saha Institute of Nuclear Physics	\$50,000
TA020004	2	2008	N/A	Part 2: 'NANOCOMPOSITES' For Electronics, Light yet Strong Engineering Applications, Coatings, Fuel Cell and Clean Energy Use	N/A	University of New South Wales	Associate Professor Sri Bandyopadhyay	Saha Institute of Nuclear Physics	\$720,000
TA020006	2	2008	N/A	Biomedical Devices and Implants Workshop 2009	N/A	Australian Academy of Technological Sciences and Engineering Limited	Dr John Ramshaw	All India Institute of Medical Sciences	\$55,000
BF030013	3	2009	Vaccines / medical diagnostics	Mechanisms of Chikungunya virus disease: mouse model, virulent and fitness determinants and the development of novel therapeutics	Collaborative Research Project	Griffith University	Professor Suresh Mahalingam	All India Institute of Medical Sciences	\$400,000
BF030016	3	2009	Nutraceuticals and Functional Foods	Anti-tumour and anti-microbial activities of orally administered Fe-saturated lactoferrin: a potential alternative medicine	Collaborative Research Project	Deakin University	Dr Jagat Kanwar	Postgraduate Institute of Medical Education & Research, Chandigarh	\$280,000
BF030018	3	2009	Biomedical Devices and Implants	Utilizing novel medical techniques/technologies and devices to enhance our understanding of common health problems (atrial arrhythmias and stroke) associated	Collaborative Research Project	University of Adelaide	Professor Prashanthan Sanders	Christian Medical College, Vellore	\$400,000
BF030027	3	2009	Transgenic Crops and Marker-assisted Breeding	Comparative genomics of important nematode pathogens leading to transgenic nematode resistance in wheat and sugarcane	Collaborative Research Project	Murdoch University	Professor Michael Jones	Indian Agricultural Research Institute	\$400,000
BF030031	3	2009	Biomedical Devices and Implants	Developing Biodegradable Magnesium Alloys for Implant Materials	Collaborative Research Project	Deakin University	Dr Cui'e Wen	Centre for Cellular and Molecular Biology	\$225,000
BF030062	3	2009	Vaccines / medical diagnostics	Development of blood-stage vaccines for Plasmodium falciparum malaria based on the EBA and PfPRH proteins	Collaborative Research Project	Walter and Eliza Hall Institute of Medical Research	Dr James Beeson	International Centre for Genetic Engineering and Biotechnology	\$400,000
ST030017	3	2009	Environment Sciences (including climate change research)	Impact of rainwater harvesting on the regional hydrological balance in the Arawali foothills region of India: Combining catchment modelling with RS-GIS	Collaborative Research Project	University of Sydney	Dr Willem Vervoort	Water Technology Centre at IARI	\$137,871
ST030019	3	2009	Micro-electronics Devices and Materials	All-optical actuation and interrogation of MEMS and NEMS resonant mode sensors	Collaborative Research Project	University of Western Australia	Professor John Dell	Indian Institute of Science	\$350,000
ST030020	3	2009	Astronomy & Astrophysics	Establishing Australian-Indian Collaboration on Gravitational Wave Astronomy	Workshop in Australia	University of Western Australia	Professor David Blair	Raman Research Institute	\$30,000
ST030046	3	2009	Renewable Energy	The Thermal Evolution of Peninsula India: Past Behaviours and Future Potential	Collaborative Research Project	University of Adelaide	Dr Alan Collins	National Geophysical Research Institute	\$350,000
ST030061	3	2009	Earth Sciences	Long-term system evolution of the Krishna-Godavari Basin and its hinterland in eastern India: a partnership for enhancing offshore hydrocarbon exploration success	Collaborative Research Project	University of Melbourne	Dr Andrew Gleadow	National Geophysical Research Institute	\$330,000
ST030088	3	2009	Astronomy & Astrophysics	Gas in Galaxies in the Distant Past	Collaborative Research Project	Australian National University	Professor Frank Briggs	National Centre for Radio Astrophysics	\$236,307
ST030105	3	2009	Environment Sciences (including climate change research)	Does climate change drive evolution?	Collaborative Research Project	Griffith University	Professor David Lambert	Environment Protection Training and Research Institute	\$194,635
ST030111	3	2009	Agricultural Research	Managing change in Soil Moisture and Agricultural Productivity under a Global Warming scenario using a Catchment Scale Climate Change Assessment Framework	Collaborative Research Project	University of New South Wales	Dr Ashish Sharma	Indian Institute of Science	\$208,500
ST030125	3	2009	Micro-electronics Devices and Materials	The Impact of Noise in Quantum Electronics	Collaborative Research Project	University of New South Wales	Professor Michelle Simmons	Indian Institute of Science	\$260,000
TA040004	4	2009	N/A	Remote sensing of marine ecosystems workshop	N/A	Commonwealth Scientific and Industrial Research Organisation (CSIRO)	Professor Arnold Dekker	Indian Space Research Organisation	\$70,000
TA040005	4	2009	N/A	Indo-Australian Workshop on Solar Energy	N/A	Australian National University	Dr Igor Skryabin	Amity University	\$50,000
BF040005	4	2010	Vaccines / medical diagnostics	APPROACHES TO DEVELOP AN EFFECTIVE HCV VACCINE	Collaborative Research Project	University of Adelaide	Professor Eric Gowans	Indian Institute of Science	\$300,000
BF040017	4	2010	Vaccines / medical diagnostics	Identification of diagnostic and prognostic biomarkers to improve management of diabetic ulcers	Collaborative Research Project	Queensland University of Technology	Professor Zee Upton	Manipal University	\$299,917
BF040030	4	2010	Bioremediation	Molecular recognition between alkane hydroxylase and rubredoxin in alkane-degrading bacteria	Collaborative Research Project	Monash University	Associate Professor Anna Roujeinikova	Tata Institute of Fundamental Research	\$297,838
BF040035	4	2010	Nutraceuticals and Functional Foods	Extraction and Purification of Sorghum Seed Protein for Delayed Delivery of Bioactives	Collaborative Research Project	Curtin University	Dr Vishnu Pareek	Institute of Chemical Technology, Mumbai	\$299,673
BF040037	4	2010	Bioenergy and Biofuels	Solar Bio-fuel and Carbon Sequestration with Cyanobacteria: Role of Genetic Networks	Collaborative Research Project	Monash University	Dr Madhusudan Chetty	Indian Institute of Technology Bombay	\$296,461
BF040038	4	2010	Vaccines / medical diagnostics	Rational development and evaluation of an effective Vaccine for the prevention of Staphylococcal Mastitis in bovines using mouse mastitis as a model system	Collaborative Research Project	Curtin University	Associate Professor Trilochan Mukkur	Bharat Biotech Foundation	\$300,000
BF040059	4	2010	Transgenic Crops and Marker-assisted Breeding	Molecular Approaches for Sustaining Crop Productivity under Abiotic Stress Conditions	Collaborative Research Project	University of Melbourne	Professor Mohan Singh	International Centre for Genetic Engineering and Biotechnology	\$300,000
BF040066	4	2010	Transgenic Crops and Marker-assisted Breeding	Engineering novel disease resistance in wheat and rice by silencing disease susceptibility genes	Collaborative Research Project	Commonwealth Scientific and Industrial Research Organisation (CSIRO)	Dr John Manners	Tamil Nadu Agricultural University	\$300,000
ST040007	4	2010	Nanotechnology	Smart bombing of cancer stem cells using aptamer-guided nanoliposomal siRNA	Collaborative Research Project with End User Partner	Deakin University	Associate Professor Wei Duan	Indian Institute of Science	\$400,000
ST040010	4	2010	Earth Sciences	Exposing the gold potential of the Neoproterozoic "Himalaya" of the Dharwar Craton in southern India	Collaborative Research Project	Curtin University	Professor Neal McNaughton	National Geophysical Research Institute	\$300,000
ST040103	4	2010	Renewable Energy	Renewable Energy from Biogas: Technology Development	Collaborative Research Project	Monash University	Professor Paul Webley	Indian Institute of Petroleum	\$270,180
ST040111	4	2010	Astronomy & Astrophysics	Enabling new science with the Murchison Widefield Array, an international low frequency pathfinder for the Square Kilometre Array	Collaborative Research Project with End User Partner	Curtin University	Professor Steven Tingay	Raman Research Institute	\$380,362
ST040116	4	2010	Nanotechnology	Flexible Carbonaceous Hybrid Membranes for Separation Applications	Collaborative Research Project	Monash University	Professor Huanting Wang	Indian Institute of Technology Bombay	\$298,954



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ST040124	4	2010	Astronomy & Astrophysics	From the Magellanic Clouds to the Milky Way: A New Understanding of Galaxy Structure and Interactions Based on Kinematics of 5000 Stars	Collaborative Research Project	University of Tasmania	Dr Andrew Cole	Indian Institute of Astrophysics	\$257,360
ST040130	4	2010	Micro-electronics Devices and Materials	The study of microwave losses in ferrite thin films for meta materials applications	Collaborative Research Project	University of Western Australia	Professor Robert Stamps	Indian Institute of Technology Bombay	\$232,000
ST040148	4	2010	Information and Communication Technology	Design and Implementation of a Content Distribution Architecture for Remote and Rural Areas	Collaborative Research Project	National ICT Australia Limited	Dr Anirban Mahanti	Indian Institute of Technology Delhi	\$299,577
ST040171	4	2010	Nanotechnology	A novel way to reduce Platinum metal loadings in a carbon nano-composite electrode to produce low cost-high efficiency commercially viable Polymer Electrolyte	Collaborative Research Project	Queensland University of Technology	Dr Andrew Dicks	National Physical Laboratory	\$296,956
TA040006	4	2010	N/A	Australia - India Nanotechnology Workshop	N/A	Australian National University	Professor Chennupati Jagadish	Saha Institute of Nuclear Physics	\$50,000
BF050014	5	2011	Vaccines / medical diagnostics	Development of selenazole drugs as a novel class of anti-cancer agents targeting the immune regulatory enzyme indoleamine 2,3-dioxygenase	Collaborative Research Project	University of New South Wales	Dr Shane Thomas	Indian Institute of Science	\$300,000
BF050024	5	2011	Stem Cells	Therapeutic approaches to augmentation of adult cardiac stem cells	Collaborative Research Project with End User Partner	Victor Chang Cardiac Research Institute	Professor Richard Harvey	Institute for Stem Cell Biology and Regenerative Medicine	\$400,000
BF050038	5	2011	Biomedical Devices and Implants	Engineering a Novel Bioreactor and Cell Sorter for Pluripotent Stem Cell Culture	Collaborative Research Project	Monash University	Dr Paul Verma	Indian Institute of Technology Bombay	\$299,539
BF050044	5	2011	Nutraceuticals and Functional Foods	Novel marine-derived lipases and processing methods for the production of omega-3 concentrates for functional foods, pharmaceuticals and nutraceuticals.	Collaborative Research Project	Deakin University	Professor Colin Barrow	Centre for Cellular and Molecular Biology	\$298,755
BF050053	5	2011	Vaccines / medical diagnostics	Structure-based design of malaria vaccines: application to the intrinsically disordered antigen MSP2	Collaborative Research Project	Monash University	Professor Raymond Norton	Indian Institute of Science	\$299,340
BF050063	5	2011	Transgenic Crops and Marker-assisted Breeding	Discovery and manipulation of miRNAs involved in high-temperature tolerance in crop plants	Collaborative Research Project	University of Queensland	Associate Professor Bernie Carroll	International Centre for Genetic Engineering and Biotechnology	\$299,700
BF050079	5	2011	Nutraceuticals and Functional Foods	Two day workshop to plan a programme of collaborative laboratory and clinical research on the role of bovine lactoferrin to prevent prematurity, neonatal sepsis and	Workshop in India	University of Sydney	Professor William Tarnow-Mordi	Postgraduate Institute of Medical Education & Research, Chandigarh	\$11,200
BF050090	5	2011	Vaccines / medical diagnostics	Sustainable prawn aquaculture by delivering interfering RNA to knockdown Penaeus merguensis densovirus and Infectious hypodermal and hematopoietic necrosis virus	Collaborative Research Project	James Cook University	Associate Professor Leigh Owens	Karnataka Veterinary, Animal and Fisheries Sciences University	\$294,099
ST050014	5	2011	Marine Sciences	Preparing for climate change on marine systems in Australia and India	Workshop in Australia	University of Tasmania	Associate Professor Stewart Frusher	Central Marine Fisheries Research Institute	\$78,930
ST050041	5	2011	Environment Sciences (including climate change research)	The changing risks posed by petroleum hydrocarbons in groundwater environments: multiphase fluid dynamics coupled to multispecies biodegradation	Collaborative Research Project with End User Partner	Commonwealth Scientific and Industrial Research Organisation (CSIRO)	Dr Greg Davis	Indian Institute of Technology Madras	\$400,000
ST050061	5	2011	Nanotechnology	Hybrid Organometallic-Coordination Complex Materials for Nonlinear Optics	Collaborative Research Project	Australian National University	Professor Mark Humphrey	Raman Research Institute	\$299,038
ST050084	5	2011	Marine Sciences	Towards a unified East Gondwanaland reconstruction and its implications for Himalayan Orogeny	Collaborative Research Project	University of Sydney	Professor Dietmar Muller	National Institute of Oceanography	\$295,766
ST050106	5	2011	Earth Sciences	Characterization of the seismic cycle in the central Himalayan seismic gap using precise U-Th dating of deformed speleothems	Collaborative Research Project	University of Melbourne	Professor Michael Sandiford	Indian Institute of Science	\$225,536
ST050115	5	2011	Nanotechnology	Energy Conversion Reactions: Fine Tuning of Electrocatalytic Activity through Surface Manipulation Guided by in situ Spectroscopic and Microscopic Studies	Collaborative Research Project	Monash University	Professor Alan Bond	Central Electrochemical Research Institute	\$299,439
ST050119	5	2011	Nanotechnology	New Generation Molecular Magnetic Materials: Experiment and Theory	Collaborative Research Project	Monash University	Professor Keith Murray	Indian Institute of Technology Bombay	\$300,000
ST050162	5	2011	Agricultural Research	Securing chickpea productivity under contemporary abiotic stresses: improvement of podding and seed-filling under heat, drought and salinity	Collaborative Research Project	University of Western Australia	Professor Timothy Colmer	International Crops Research Institute for the Semi-Arid Tropics	\$299,837
ST050173	5	2011	Earth Sciences	Highwall Mining Design and Development of Norms for Indian conditions	Collaborative Research Project with End User Partner	Commonwealth Scientific and Industrial Research Organisation (CSIRO)	Dr Shivakumar Karekal	Central Institute of Mining and Fuel Research	\$286,292
ST050184	5	2011	Environment Sciences (including climate change research)	Improving our ability to predict plant distributions under changed climates: incorporating dispersal into predictions of species and community distributions	Collaborative Research Project	Commonwealth Scientific and Industrial Research Organisation (CSIRO)	Dr David Westcott	Indian Institute of Science	\$288,342
GCF010006	1	2012	Food and Water Security	Ensuring food security: harnessing science to protect our grain harvest from insect threats	Grand Challenge Project	University of Queensland	Associate Professor Gimme Walter	Tamil Nadu Agricultural University	\$2,984,247
GCF010009	1	2012	Food and Water Security	Crop plants which remove their own major biotic constraints	Grand Challenge Project	University of Melbourne	Professor Derek Russell	International Centre for Genetic Engineering and Biotechnology	\$2,925,533
GCF010013	1	2012	Food and Water Security	Genomic Approaches for Stress Tolerant Chickpea	Grand Challenge Project	Australian Centre for Plant Functional Genomics	Dr Tim Sutton	International Crops Research Institute for the Semi-Arid Tropics	\$2,976,123
BF060012	6	2012	Stem Cells	Novel Cell Surface Markers for Endodermal Stem and Progenitor Cells in Health and Disease	Collaborative Research Project	University of Melbourne	Professor Martin Pera	Institute for Stem Cell Biology and Regenerative Medicine	\$297,000
BF060017	6	2012	Stem Cells	An Insertional Mutagenesis System to Identify Epigenetic Factors that Control Embryonic Stem Cell Differentiation	Collaborative Research Project	Australian National University	Dr Danny Rangasamy	National Centre for Cell Science	\$299,818
BF060023	6	2012	Stem Cells	Molecular Pathways Regulating Ovarian Cancer Cell Plasticity and Stem Cell Properties	Collaborative Research Project	Queensland University of Technology	Professor Judith Clements	National Centre for Cell Science	\$300,000
BF060025	6	2012	Vaccines / medical diagnostics	Novel Vaccine Delivery Systems that Elicit Robust and Enduring T Cell Memory Responses: Alternatives to BCG Vaccination in Tuberculosis Endemic Regions	Collaborative Research Project with End User Partner	University of Melbourne	Professor David Jackson	Institute of Microbial Technology	\$400,000
BF060026	6	2012	Nutraceuticals and Functional Foods	Workshop for the strategic development of Muricidae natural medicines	Workshop in Australia	Southern Cross University	Dr Kirsten Benkendorff	Central Marine Fisheries Research Institute	\$34,115
BF060034	6	2012	Vaccines / medical diagnostics	Designing combination immunotherapy and drug treatment to control chronic infectious diseases	Collaborative Research Project with End User Partner	Queensland Institute of Medical Research	Dr Christian Engwerda	Banaras Hindu University	\$300,000
BF060042	6	2012	Stem Cells	Locked nucleic acid modified aptamer-siRNA chimeric conjugates for improved chemosensitivity and eradication of cancer stem cells	Collaborative Research Project	Deakin University	Associate Professor Jagat Kanwar	Vision Research Foundation Sankara Nethralaya	\$296,030
ST060005	6	2012	Materials Science (including nanotechnology)	Nanocomposite Material for High-power Lithium Battery Cathodes	Collaborative Research Project	University of Western Sydney	Dr Adriyan Milev	Indian Institute of Technology Madras	\$280,000
ST060012	6	2012	Environment Sciences (including climate change research)	Safe and sustainable use of arsenic contaminated aquifers in the upper Gangetic plain: establishing a multi-disciplinary Australian-Indian collaboration	Workshop in India	Southern Cross University	Dr Scott Johnston	Jawaharlal Nehru University	\$23,500





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ST060022	6	2012	Materials Science (including nanotechnology)	Topological Defects In Non-Collinear Multiferroics: A Nanodomain Approach To Multifunctionality	Collaborative Research Project	University of New South Wales	Dr Nagarajan Valanoor	National Chemical Laboratory	\$300,000
ST060030	6	2012	Materials Science (including nanotechnology)	Functionalised Hierarchical Nanocomposites for Synthetic Fuels Production	Collaborative Research Project	Commonwealth Scientific and Industrial Research Organisation (CSIRO)	Dr Ken Chiang	Indian Institute of Petroleum	\$280,000
ST060040	6	2012	Earth Sciences	Workshops on Himalayan Gneiss Domes	Workshop in India	Australian National University	Professor Gordon Lister	University of Kashmir	\$40,000
ST060041	6	2012	Environment Sciences (including climate change research)	Novel Approach for Processing Hazardous Electronic Waste	Collaborative Research Project with End User Partner	University of New South Wales	Professor Veena Sahajwalla	Institute of Minerals and Materials Technology	\$365,000
ST060048	6	2012	Materials Science (including nanotechnology)	Magnetron Sputtering of Nanolaminates with Materials Designed and Engineered Properties	Collaborative Research Project with End User Partner	Swinburne University of Technology	Professor Cuie Wen	Banaras Hindu University	\$400,000
ST060051	6	2012	Information and Communication Technology	Optimization Techniques for Human Language Technology	Workshop in India	Macquarie University	Dr Diego Molla Aliod	Indian Institute of Technology Patna	\$23,000
ST060053	6	2012	Information and Communication Technology	Utilisation of leading edge ICT to enhance Australian and Indian ground water and land resources under climate change scenarios	Workshop in India	Edith Cowan University	Dr Marcia Taylor	Indian Institute of Technology Bombay	\$22,220
ST060056	6	2012	Renewable Energy	Workshop on Techno Economical Challenges of Integrating Renewable Energy Sources on Power System Operations and Control	Workshop in India	Queensland University of Technology	Dr Yateendra Mishra	Indian Institute of Technology Delhi	\$20,670
ST060085	6	2012	Materials Science (including nanotechnology)	A new route to ultra-high quality hole-based nanoelectronic devices	Collaborative Research Project	University of New South Wales	Professor Alex Hamilton	Indian Institute of Technology Bombay	\$295,959
ST060088	6	2012	Information and Communication Technology	Spatially Enabled Nations: Workshop on a meta-integrative framework towards improving disaster management practices in India and Australia	Workshop in India	University of Melbourne	Associate Professor Nelson Lam	Madras University	\$34,000
ST060095	6	2012	Environment Sciences (including climate change research)	Development of innovative spent wash treatment systems and resource recovery options for distillery applications	Collaborative Research Project	University of New South Wales	Associate Professor Gregory Leslie	Indian Institute of Technology Roorkee	\$280,000
GCF020005	2	2013	Health	A point-of-care diagnostic tool for tuberculosis	Grand Challenge Project	Commonwealth Scientific and Industrial Research Organisation (CSIRO)	Dr Graeme Woodrow	Institute of Microbial Technology	\$2,308,241
GCF020013	2	2013	Health	Reducing the burden of injury in India and Australia through development and piloting of improved systems of care	Grand Challenge Project	Monash University	Professor Russell Gruen	All India Institute of Medical Sciences	\$1,913,832
GCF020009	2	2013	Energy	Mini DME: A custom designed solution to bring stranded gas to the energy markets	Grand Challenge Project	Commonwealth Scientific and Industrial Research Organisation (CSIRO)	Dr Jim Patel	CSIR Indian Institute of Petroleum	\$2,944,300
GCF020010	2	2013	Energy	Integrated technologies for economically sustainable bio-based energy	Grand Challenge Project	Queensland University of Technology	Professor William Doherty	Institute of Chemical Technology, Mumbai	\$2,978,749
AISRF07021	7	2013	Earth Sciences	Inter-dependencies of deep crustal and surficial geological processes during continental collision	Collaborative Research Project	University of Sydney	Professor Jonathan Aitchison	University of Kashmir	\$284,500
AISRF06660	7	2013	Information and Communication Technology (incl. computer science)	Building triangulations for fast topological computing	Collaborative Research Project	University of Queensland	Associate Professor Benjamin Burton	Indian Institute of Science	\$295,972
AISRF06300	7	2013	Information and Communication Technology (incl. computer science)	The Role of Noise in Silicon Based Quantum Computing	Collaborative Research Project	University of New South Wales	Professor Michelle Simmons	Indian Institute of Science	\$300,000
AISRF06220	7	2013	Earth Sciences	What will the future be? Projecting environmental change in a warming world for semi-arid landscapes	Collaborative Research Project	University of New South Wales	Professor Ashish Sharma	Indian Institute of Science	\$297,998
AISRF06240	7	2013	Marine Sciences	Hydrodynamic characteristics of porous barriers under nonlinear shallow water waves	Collaborative Research Project	Monash University	Professor Murray Rudman	Indian Institute of Technology Bombay	\$265,742
AISRF06940	7	2013	Marine Sciences	Characterising the changing Indian Ocean's biogeochemistry and ecology using revolutionary new robotic tools	Collaborative Research Project with End User Partner	Commonwealth Scientific and Industrial Research Organisation (CSIRO)	Dr Nick Hardman-Mountford	National Institute of Oceanography	\$400,000
AISRF08140	7	2013	Information and Communication Technology (incl. computer science)	Innovative Solutions for Deployment of Big Data and Disaster Management Applications on Clouds	Collaborative Research Project with End User Partner	Commonwealth Scientific and Industrial Research Organisation (CSIRO)	Dr Rajiv Ranjan	Tata Institute of Fundamental Research	\$400,000
AISRF07160	7	2013	Information and Communication Technology (incl. computer science)	Planar High-Gain Antennas Based on Electromagnetic Band Gap Concept	Collaborative Research Project with End User Partner	Macquarie University	Professor Karu Esselle	Indian Institute of Technology Kanpur	\$394,062
AISRF07140	7	2013	Agricultural Research	Workshop on Reproductive Biotechnologies for Agricultural Research	Workshop in Australia	South Australian Research and Development Institute	Professor Paul Verma	National Institute of Animal Biotechnology	\$42,450
AISRF08060	7	2013	Renewable Energy	Australia-India Workshop on Smart Functional Nanomaterials	Workshop in Australia	University of Melbourne	Dr David Jones	Jawaharlal Nehru Centre for Advanced Scientific Research	\$34,540
AISRF07480	7	2013	Information and Communication Technology (incl. computer science)	Indo-Australian Workshop on Modelling Large-Scale Linked Data	Workshop in India	University of New South Wales	Professor Arcot Sowmya	Indraprastha Institute of Information Technology, Delhi	\$27,400
AISRF06641	7	2013	Agricultural Research	Bio-nanotechnology applications to improve plant productivity and ecosystems services	Workshop in Australia	Deakin University	Professor Tes Toop	The Energy and Resources Institute	\$56,280
AISRF07621	7	2013	Renewable Energy	Bio-Jet Fuel - A Key to Future Green and Sustainable Aviation	Workshop in India	University of Melbourne	Dr Gregory Martin	CSIR Indian Institute of Petroleum	\$27,720
AISRF08020	7	2013	Vaccines, immunomodulators and immunotherapeutics	Antibody-dependent cellular cytotoxicity (ADCC): a new frontier in vaccine research	Collaborative Research Project with End User Partner	University of Melbourne	Professor Stephen Kent	National AIDS Research Institute	\$400,000
AISRF06680	7	2013	Vaccines, immunomodulators and immunotherapeutics	Nanoengineered autoantigens to prevent and treat autoimmunity	Collaborative Research Project	Monash University	Professor Claude Bernard	Amrita Institute of Medical Sciences and Research Centre	\$291,960
AISRF06520	7	2013	Biotechnological interventions for improved agricultural productivity	Creating a new Brassica crop species for food and biofuel	Collaborative Research Project	University of Queensland	Dr Annaliese Mason	Punjab Agricultural University	\$299,688
AISRF07440	7	2013	Vaccines, immunomodulators and immunotherapeutics	The immunomodulatory and angiogenic role of bone marrow-derived endothelial progenitor cells in chronic liver disease	Collaborative Research Project	Centenary Institute of Cancer Medicine & Cell Biology	Dr Devanshi Seth	Institute of Liver and Biliary Sciences	\$300,000
AISRF06200	7	2013	Vaccines, immunomodulators and immunotherapeutics	Endothelial progenitor cells (EPC) and sphingosine-1-phosphate (S1P) as immunomodulators and immunotherapeutic targets during DENV infection	Collaborative Research Project	Flinders University	Dr Jillian Carr	Christian Medical College, Vellore	\$295,621
AISRF07840	7	2013	Vaccines, immunomodulators and immunotherapeutics	Novel immunomodulatory agents for type II diabetes through targeting the NLRP3 inflammasome signaling cascade	Collaborative Research Project	University of Queensland	Professor Matthew Cooper	Indian Institute of Chemical Technology	\$282,365
AISRF08240	7	2013	Biotechnological interventions for improved agricultural productivity	Comparative transcriptomics of rice and resurrection plants, and exploitation of novel genes for dehydration tolerance for improvement of drought tolerance in rice	Collaborative Research Project with End User Partner	Queensland University of Technology	Professor Sagadevan Mundree	International Centre for Genetic Engineering and Biotechnology	\$300,000
AISRF08163	7	2013	Biomedical Devices and Implants	Workshop on multi-drug resistant Pseudomonas aeruginosa and ocular infections	Workshop in India	University of New South Wales	Professor Mark Willcox	LV Prasad Eye Institute	\$5,065
AISRF07266	7	2013	Biomedical Devices and Implants	Collaborative workshop on MEMS and its applications in health care	Workshop in Australia	Deakin University	Professor Lingxue Kong	University of Mumbai	\$31,000



**Projects and workshops funded under the Australia-India Strategic Research Fund as at July 2021**

Reference Number	Round	Award Year	Priority Area	Project Title	Activity Type	Australian Lead Organisation	Australian Project Manager	Indian Lead Organisation	Aust Govt Grant	
AISRF07080		7	2013	Stem Cells	Joint Australian/Indian Workshop on Epithelial Development, Function and Disease - New Frontiers and Therapies	Workshop in India	Queensland University of Technology	Professor Zee Upton	Manipal University	\$32,500
AISRF33901		8	2015	Agricultural Research	Tailoring plant protease inhibitors for control of the crop pest <i>Helicoverpa armigera</i>	Collaborative Research Project	University of Queensland	Professor Glenn King	Tata Institute of Fundamental Research	\$199,496
AISRF33700		8	2015	Agricultural Research	Value Adding to Agriculture Waste by Catalytic Gasification to Bio-Fuel Production	Collaborative Research Project	University of Queensland	Dr Jorge Beltramini	Indian Institute of Chemical Technology	\$199,052
AISRF33820		8	2015	Agricultural Research	Harnessing the plant-microbiome for drought tolerance and improved wheat productivity in Australian and Indian environments	Collaborative Research Project	Flinders University	Professor Christopher Franco	International Centre for Genetic Engineering and Biotechnology	\$200,000
AISRF33760		8	2015	Agricultural Research	Mining alleles for heat tolerance of wheat in Australian and Indian environments for development of heat resilient cultivars	Collaborative Research Project	Australian Centre for Plant Functional Genomics	Dr Delphine Fleury	Punjab Agricultural University	\$199,468
AISRF33021		8	2015	Water management	Sustainable water management system for water desalination and agricultural irrigation independent of electric grid	Collaborative Research Project	Royal Melbourne Institute of Technology	Dr Abhijit Date	University of Pune	\$132,104
AISRF33742		8	2015	Water management	Biomonitoring of pesticides in rivers and streams vis-a-vis ecological services and functions	Collaborative Research Project	University of Canberra	Dr Ben Kefford	Assam University	\$126,401
AISRF33660		8	2015	Water management	Identification and management of sewage effluent discharges to keep our rivers healthy: Comparative investigations in India and South Australia	Collaborative Research Project	Commonwealth Scientific and Industrial Research Organisation (CSIRO)	Dr Anupama Kumar	CSIR Indian Institute of Toxicological Research	\$200,000
AISRF33160		8	2015	Vaccines, immunomodulators and immunotherapeutics	Preclinical trials of a quadrivalent hepatitis C virus vaccine	Collaborative Research Project	University of Adelaide	Professor Eric Gowans	Indian Institute of Science	\$200,000
AISRF33500		8	2015	Nutraceuticals and Functional Foods	Integrated biorefinery for production of sorghum seed protein	Collaborative Research Project	Curtin University	Dr Ranjeet Utikar	Institute of Chemical Technology, Mumbai	\$200,000
AISRF33780		8	2015	Transgenic Crops and Marker-assisted Breeding	Comparative genomics of important nematode pathogens leading to transgenic nematode resistance in wheat and sugarcane (Follow on project)	Collaborative Research Project	Murdoch University	Professor Michael Jones	Indian Agricultural Research Institute	\$200,000
AISRF48508		9	2016	Clean Energy Technologies	Hotwiring microbial communities for enhanced unconventional gas production	Collaborative Research Project	University of New South Wales	Associate Professor Michael Manefield	The Energy and Resources Institute	\$967,192
AISRF48515		9	2016	Clean Energy Technologies	New materials for large scale, high stability, high energy density batteries: from material design to prototype development	Collaborative Research Project	Deakin University	Professor Maria Forsyth	Indian Institute of Science	\$999,925
AISRF48454		9	2016	Food and Agribusiness	Genetic control and genomic selection for important traits in sugarcane, and comparison of elite Indian and Australian germplasm	Collaborative Research Project	Sugar Research Australia Limited	Dr Prakash Lakshmanan	Sugarcane Breeding Institute	\$644,332
AISRF48490		9	2016	Food and Agribusiness	Developing salt tolerant rice for food security in India and Australia	Collaborative Research Project	University of Tasmania	Professor Sergey Shabala	M. S. Swaminathan Research Foundation	\$997,500
AISRF48516		9	2016	Food and Agribusiness	Deploying biotechnology-based decision-making tools in post-harvest grain pest management to enhance food security and market access	Collaborative Research Project	Department of Agriculture and Fisheries, Queensland Government	Dr Manoj Navak	Tamil Nadu Agricultural University	\$999,699
AISRF48538		9	2016	Food and Agribusiness	Improving Chickpea Adaptation to Environmental Challenges in Australia and India	Collaborative Research Project	South Australian Research and Development Institute	Dr Tim Sutton	International Crops Research Institute for the Semi-Arid Tropics	\$998,749
TA100003	N/A	2016	N/A	Women in STEMM Workshop		Workshop in India	Australian Academy of Science	Ms Nancy Pritchard	Department of Science and Technology	\$129,600
AISRF53749		10	2017	Disease control – tropical, lifestyle and emerging diseases	Eliminating Visceral Leishmaniasis - An Australian-Indian Partnership	Collaborative Research Project	Monash University	Professor Jonathan Baell	Indian Institute of Chemical Biology	\$999,894
AISRF53783		10	2017	Medical Technologies	Novel Imaging Diagnostics for Alzheimer s Disease	Collaborative Research Project	Florey Institute of Neuroscience and Mental Health	Professor Ashley Bush	National Brain Research Centre	\$999,812
AISRF53807		10	2017	Medical Technologies	An advanced low cost minimally invasive cardiac assist device	Collaborative Research Project	BioQ Devices Pty Ltd	Dr Peter Walsh	Frontier Lifelong Hospital	\$995,550
AISRF53820		10	2017	Medical Technologies	New class of intelligent robotic imaging system for keyhole surgeries	Collaborative Research Project	Queensland University of Technology	Professor Ross Crawford	Indian Institute of Technology Madras	\$995,977
AISRF53765		10	2017	Advanced Manufacturing and Innovative Technologies	Large Area Opto-Electronics (LAOE) for Australia and India	Collaborative Research Project	University of Queensland	Dr Ebinazar Namdas	CSIR-National Institute for Interdisciplinary Science and Technology (NIIST)	\$1,000,000
AISRF53782		10	2017	Advanced Manufacturing and Innovative Technologies	Enhancing Dairy Milk Shelf Life with PCM Thermal Energy Storage and Renewable Energy	Collaborative Research Project	University of South Australia	Professor Frank Bruno	Anand Agricultural University	\$973,944
AISRF53731		10	2017	Advanced Manufacturing and Innovative Technologies	Advanced manufacturing of new high entropy alloys	Collaborative Research Project	Deakin University	Dr Matthew Barnett	Indian Institute of Technology Madras	\$995,968
TA110003	N/A	2017	N/A	Sustainable Urban Water Management Workshop		Workshop in India	Australian Academy of Technology and Engineering	Dr Matthew Wenham	Indian National Academy of Engineering	\$28,750
TA120002	N/A	2017	N/A	Water Resource Management in Mining Workshop		Workshop in India	Commonwealth Scientific and Industrial Research Organisation (CSIRO)	Dr Anupama Kumar	Udaipur Chamber of Commerce & Industry	\$19,250
SKAIN000002	N/A	2019	N/A	Australia-India Research & Development in Radio Astronomy (ARDRA) Workshop		Workshop in India	Curtin University	Professor Melanie Johnston-Hollitt	National Centre for Radio Astrophysics	\$74,000
AISRF75413		11	2019	Plant genomics	Functional Genomics of Chickpea to enhance drought tolerance	Collaborative Research Project	University of Western Australia	Professor Harvey Millar	International Crops Research Institute for the Semi-Arid Tropics	\$500,000
AISRF75426		11	2019	Energy storage (batteries)	New Barrier Encapsulation for Flexible Energy Storage and PV Devices	Collaborative Research Project	Commonwealth Scientific and Industrial Research Organisation (CSIRO)	Dr Hasitha Weerasinghe	Indian Institute of Science	\$497,570
AIRXII000124		12	2020	Food processing, storage and distribution	Thermal Energy Storage for Food/Grain Drying with CST/RE to Lower Pollution	Collaborative Research Project	University of South Australia	Professor Frank Bruno	Lovely Professional University	\$977,585
AIRXII000075		12	2020	Climate change mitigation and adaptation	Enhancing climate change adaptation processes for farmers and agribusiness	Collaborative Research Project	University of Southern Queensland	Professor Roger Stone	Tamil Nadu Agricultural University	\$998,979
AIRXII000019		12	2020	Climate change mitigation and adaptation	Harnessing Solar Energy to Attain Near Zero Carbon Emission Brine Treatment	Collaborative Research Project	University of Technology Sydney	Professor Michael Blumenstein	Indian Institute of Technology Gandhinagar	\$500,000
AIRXII000200		12	2021	Cancer therapeutics / theranostics	Gold-based drugs for the effective treatment of ovarian cancer	Collaborative Research Project	Royal Melbourne Institute of Technology	Professor Magdalena Plebanski	CSIR-Indian Institute of Chemical Technology	\$965,992
AIRXII000172		12	2021	Pest-resistant crops	RNA-based Biopesticides for Sustainable Crop Protection	Collaborative Research Project	University of Queensland	Professor Neena Mitter	Maharashtra Hybrid Seeds Company Pvt. Ltd. (Mahyco)	\$865,000
AIRXIIICO000045		13	2020	Antiviral coatings, other preventive technologies	Nanoscale manufacturing platform to combat pandemics like COVID-19	Collaborative Research Project	Metro North Hospital and Health Service	Professor Michael Schuetz	Indian Institute of Science	\$577,130
AIRXIIICO000063		13	2020	Screening and diagnostic testing	Photonic Viropsy: Harnessing light on chip for precise SARS–CoV–2 diagnosis	Collaborative Research Project	University of Adelaide	Dr Abel Santos	Amity University	\$573,998
AIRXIIICO000068		13	2020	Screening and diagnostic testing	Aortic & lung Inflammation following COVID: a marker of cardiac events	Collaborative Research Project	University of Western Australia	Professor Girish Dwivedi	All India Institute of Medical Sciences	\$351,068