

UKIERI Research Awards 2008-09

S.No	Reference No.	Project Title	Key Subject Area	UK Researcher	UK Institution	Indian Researcher	Indian Institution	Scheme
1	SA08-037	Adaptive Security Network Scheme	Security, Ad hoc networks, Agents, Multi-Agent Systems, Adaptation	Dr. Jeremy Pitt	Imperial College London	Prof Pallapa Venkataram	Indian Institute of Science - Bangalore	UKIERI
2	SA08-013	Optimal Vibration Control of Composite Structures	Active Control, Vibration Damping, Composite Structure, Optimization.	Professor Peter Fleming	Sheffield University	Dr Bhattacharya	Indian Institute of Technology - Kanpur	DST
3	SA08-017	Biomimetic hydroxyapatite coating on zirconium based biocompatible alloys	Zr-based alloys, Biomimetic coating, biocompatible	Prof Serena Michelle	University of Cambridge	Ashit Kumar Pramanick	National Metallurgical Laboratory- Jamshedpur	DST
4	SA08-070	Effect of cation substitution on the structure and biocompatibility of ionomer	Modelling, bond length, crystal phase, structural species	Dr Stamboulis	University of Birmingham	Dr Basu	Indian Institute of Technology - Kanpur	DST
5	SA08-079	Clean energy from biomass: catalysing pyrolysed carbon for soil sequestration	Energy, black carbon, biomass, catalysis, sequestration	Dr Trevor Drage	Nottingham University	Dr Sadhana Rayalu	National Environmental Engineering Research Institute (NEERI)- Nagpur	DST
6	SA08-084	Glutathione Peroxidase and Peroxynitrite Reductase Mimetics	Biocatalysis, Essays, Mimetics, Synthesis, Pharmaceuticals,	Prof Wirth	Cardiff University	Prof Mugesh	Indian Institute of Science, Bangalore	DST
7	SA08-040	Impact of demographic and social change on gastroenteric viral infections	Gastroenteritis, norovirus, rotavirus, extended families, immunity	Dr Miren Iturriza-Gomara	Centre for Infections, Health Protection Agency	Prof Gagandeep Kang	Christian Medical College Vellore-Tamil Nadu	UKIERI
8	SA08-047	Verified Software Initiative: Embedded Systems	Hardware-software co-design, embedded systems, verification	Prof. Jim Woodcock	York University	Dr Deepak D'Souza	Indian Institute of Science-Bangalore	UKIERI
9	SA08-053	Structural Health Monitoring and Assessment of Prestressed Concrete Girder	SHM, Condition Assessment, PSC Girder, Life Extension, Bridges,	Dr. Richard Scott	Durham University	Professor Pradipta Banerji	Indian Institute of Technology - Mumbai	UKIERI
10	SA08-071	Communicating Climate Change in India and UK: A Reception Study	Climate Change; media; youth; promotional communication	Dr Hibberd	University of Stirling	Dr. Tomar	Centre for Media Studies (CMS)-Delhi	UKIERI
11	SA08-044	Pioneering Metallurgy: origins of steel-making in the southern Indian subcontinent	crucible steel; wootz; field archaeology; archaeometallurgy; analysis;	Dr Gill Juleff	Exeter University	Dr. Srinivasan	National Institute of Advanced Studies-Bangalore	UKIERI
12	SA08-011	Contacting 3D electrodeposited nanowires: new opportunities for	Spintronics, nanomagnetism, magnetization processes,	Dr. Derek Atkinson	Durham University	Dr. Kaylan Mandal	S. N. Bose National Centre for Basic Sciences-Kolkata	DST
13	SA08-054	Supermacroporous Cryogels for Cartilage Tissue Engineering	Polymers, Supermacroporous Cryogels, Cartilage Tissue	Dr. Felicity Rose	Nottingham University	Dr. Ashok Kumar	Indian Institute of Technology -Kanpur	DST
14	SA08-055	Aberration Corrected In-situ Electron Microscopy of Nanomaterial Structures and	Aberration Corrected, In-situ Electron Microscopy, Nano, Transformations	Professor Edward D Boyes	York University	Professor P S Anil Kumar	Indian Institute of Science, Bangalore	DST
15	SA08-059	Electronic Properties and structures of Quantum Dots and Quantum Wells	Nanocrystals, Quantum Dots, Nanoscience Semiconductor	Prof O'brien	Manchester University	Prof das Sharma	Indian Association for the Cultivation of Science-Kolkata	DST
16	SA08-080	Signal Processing and Information Theoretic study of Cognitive Radio Networks	Next generation wireless networks, Cognitive radio, Wireless Internet, MIMO	Dr. Ratnarajah	Queen's University Belfast (QUB)	Dr. Prakriya	Indian Institute of Technology- Delhi	DST
17	SA08-081	Hydrogen generation by electrolyses of water	Water electrolyses, PEM electrolyser, electrocatalysts, hydrogen	Dr Keith Scott	Newcastle University	Dr. Basu	Indian Institute of Technology- Delhi	DST
18	SA08-088	Design and Fabrication of Nanomachined Thermal Sensors using FIB	Nanoheaters, thermal sensors, Focused ion beam	Prof Prewett	University of Birmingham	Prof RayChaudhuri	S.N.Bose National Centre for Basic Sciences-Kolkata	DST
19	SA08-014	Prospects for Telemedicine and Medical Tourism between India and UK	Telemedicine, Medical Tourism, India, UK	Professor Richard Smith	London School of Hygiene and Tropical Medicine	Professor Rupa Chanda	Indian Institute of Management-Bangalore	UKIERI
20	SA08-036	CityForm-India: achieving sustainable urban development in India's	sustainable development, urban sustainability, urban form	Dr Raman	Oxford Brookes University	Prof Vaidya	National Institute of Urban Affairs-Delhi	UKIERI
21	SA08-038	Genetic basis of ischaemic stroke in an Indian population	Stroke, genetics, cardiovascular, Indian, South Asian	Dr Pankaj Sharma	Imperial College London	Professor Kameshwar Prasad	All India Institute of Medical Sciences (AIIMS)-Delhi	UKIERI
22	SA08-029	Design and development of nano vanadium phosphate as oxidation catalysts	Nano vanadium phosphate, oxidation, hydrocarbon, pollutants	Prof Graham Hutchings	Cardiff University	Dr Kulamani Parida	Institute of Minerals and Materials Technology-Orissa	DST
23	SA08-069	The Structure of the Vitellogenin receptor from Lepidoptera	LDL receptors, vitellogenin(Vg), vitellogenin receptors(VgR),	Prof Sawyer	Edinburgh University	Prof Krishnan	Bharathidasan University Tiruchirapalli-Tamil Nadu	DST
24	SA08-074	Study of nano-materials for their use in engine oil formulations for better fuel	Nano-materials, Antiwear, Antifriction, Engine performance	Dr John Fieldhouse	Huddersfield University	Dr M.R Tyagi	Indian Institute of Petroleum, Dehradun, Uttaranchal	DST
25	SA08-082	Development of a recombinant vaccine in transgenic plants for Chikungunya viral infection	Recombinant vaccine, Transgenic plants, Envelope, glycoproteins, Ion exchange chromatography, Immunization	Dr Julian Ma	St. George's University of London	Dr Sathishkumar Ramalingam	Bharathiar University, Coimbatore, Tamil Nadu	UKIERI
26	SA08-005	Sustainable Materials Processing of Strategic Metals	Sustainability, Materials Processing, Bio-technology, Strategic Metals, Pollution	Ramachandran Vasant Kumar	University of Cambridge	Dr.Sankaran Subramanian	Institution Indian Institute of Science-Bangalore	UKIERI

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27	SA08-006	Tumour suppressing activity of sclerotium rolfsii lectin on colon	lectin/anticancer agent / drug delivery	Lu-Gang Yu	Liverpool University	Shashikala Inamdar	Karnatak University Dharwad-Karnataka	UKIERI
28	SA08-009	Personalised mobile authentication to prevent fraud on mobile commerce	mobile authentication, data fraud, electronic crime, cyber laws, single sign on, data	Dr Raj Muttukrishnan	City University	Professor Rajanish Dass	Indian Institute of Management- Ahmedabad	UKIERI
29	SA08-031	Reinforcement Learning of Visual Routines in Autonomous Systems	Visual routines, Reinforcement learning, Object recognition, Robotics,	Dr Jeremy Wyatt	Birmingham	Dr Balaraman Ravindran	Indian Institute of Technology-Chennai	UKIERI
30	SA08-052	Use of Biofuels for the Development of Low Carbon Emission Engines:	Biofuels, Low Carbon Emission, Diesel Engines, Laser Diagnostics,	Dr.Lionel Ganippa	Brunel University	Prof. Ravikrishna Rayavarapu	Indian Institute of Science-Bangalore	DST
31	SA08-061	Development of a solar concentrator for solar-water desalination	Solar concentrator, water desalination, energy efficiency	Dr Tadhg O'Donovan	Heriot-Watt University	Dr K S Reddy	Indian Institute of Technology-Chennai	DST
32	SA08-063	In vivo autonomic markers in early diagnosis of Parkinson's disease.	Autonomic dysfunction, Parkinson's disease, neuroprotective,	Christopher Mathias	Imperial College London	Dr. Uday Muthane	Parkinsons and Aging Research Foundation-Bangalore	UKIERI
33	SA08-072	Evaluation of Quantitative Dispersion Models for Urban Air Quality Assessment	Air pollution, traffic, Gaussian model, standards, management, local air	Professor Margaret Bell	Newcastle University	Dr.Mukesh Khare	Indian Institute of Technology-Delhi	UKIERI
34	SA08-086	Transport Phenomena across Biological Cell Membranes within	Bioengineering; Biomechanics; Modelling; Bioanalysis; Cells;	Dr Zhang	University of Southampton	Dr. Chakraborty	Indian Institute of Technology-Kharagpur	UKIERI
35	SA08-043	Multi-Processor Electronic Design Automation	Electronic Design Automation, Processors	Professor Mark Zwolinski	University of Southampton	Dr Manoj Gaur	Malaviya National Institute of Technology-Rajasthan	UKIERI

