

India - UK Selected proposals 2016

S. No.	DST File No.	Project Title	Project Area Theme	UK Lead Institution Name	India Lead Institution Name	Email ID of Indian PI
1	DST/INT/UK/P-119/2016	Peptide Based Semiconducting Materials for Organic-electronic devices	Material Science	Prof. Oren A. Scherman, University of Cambridge	Dr. Debapratim Das, Indian Institute of Technology Guwahati, Guwahati	ddas@iitg.ernet.in
2	DST/INT/UK/P-120/2016	Past, present and future of bats in Western and Central India – impact and implications of climate change on species ranges	Climate Research	Prof. Gareth Jones Professor of Biological Sciences School of Biological Sciences, University of Bristol, 24 Tyndall Avenue, Bristol BS8 1TQ	Dr. Chelmala Srinivasulu Assistant Professor in Zoology Department of Zoology (Wildlife Biology and Taxonomy Lab), University College of Science Osmania University, Hyderabad 500007, Telangana State,	chelmalasrinivasulu@gmail.com
3	DST/INT/UK/P-121/2016	Methanol Fed High Energy Density Fuel Cell System with Novel Catalyst and Flow Field Design	Material Science	Professor Rui Chen, Department of Aeronautical and Automotive Engineering (AAE) Loughborough University, Loughborough, Leicestershire LE11 3TU, UK	Dr. P. Karthikeyan, BOYSCAST Fellow & Associate Professor, Department of Automobile Engineering, PSG College of Technology, (Govt. Aided Autonomous Institution & ISO 9001:2000 Certified) Peelamedu, Coimbatore, Tamilnadu-641 004, India.	apk@aut.psgtech.ac.in

4	DST/INT/UK/P-122/2016	Nonlinear Interaction between Extreme Waves and Floating Bodies with Deformable Structures	Climate Research	Dr Shiqiang Yan, Department of Civil Engineering City, University of London Northampton Square EC1V 0HB UK	Dr. V. Sriram, Department Of Ocean Engineering, IIT Madras, Chennai – 600 036, India.	vsriram@iitm.ac.in
5	DST/INT/UK/P-123/2016	Mode of CD40 clustering dictates its functional duality	Human Health	Dr Christoph G. Baumann, University of York	Dr Bhaskar Saha, Lab-5, National Centre for Cell Science, Ganeshkhind, Pune 411007, Maharashtra, India	bhaskar211964@yahoo.com
6	DST/INT/UK/P-124/2016	Novel Computational Methodologies for Modelling and Characterization of Corrosion Pitting and cracking in Metallic Structures	Material Science	Prof. Robert Akid, University of Manchester School of Materials, The University of Manchester Sackville Street M13 9PL	Prof. S. Gopalakrishnan, Indian Institute of Science, Department of Aerospace Engineering, C V Raman Avenue, Bangalore 560012	krishnan@aero.iisc.ernet.in
7	DST/INT/UK/P-125/2016	Theoretical and experimental studies of suspensions of magnetic nanoparticles, their applications and generalizations.	Material Science	Dr Apala Majumdar Associate Professor Department of Mathematical Sciences University of Bath Claverton Down Bath BA2 7AY	Dr. Varsha Banerjee, Department of Physics, Indian Institute of Technology, Delhi Hauz Khas, New Delhi 110016	varsha@physics.iitd.ac.in
8	DST/INT/UK/P-126/2016	Environmental adaptation and resilience to climate change: investigating the sustainability of the Indus Civilization (Indus)	Climate Research	Dr Cameron Andrew Petrie Department of Archaeology University of Cambridge Cambridge, UK	Prof. Ravindra Nath Singh Department of AIHC and Archaeology Banaras Hindu University Varanasi, India	drravindransingh@gmail.com

9	DST/INT/UK/P-127/2016	Tidal Energy for Sustainable Village Electricity Supply in the Indian Sundarbans Biosphere	Climate Research	Dr Vengatesan Venugopal, Institute for Energy Systems School of Engineering The University of Edinburgh The King's Buildings Mayfield Road Edinburgh, EH9 3DW United Kingdom.	Prof. Prasad Kumar Bhaskaran, Department of Ocean Engineering & Naval Architecture Indian Institute of Technology Kharagpur ,Kharagpur - 721 302 West Bengal	pkbhaskaran@naval.iitkgp.ernet.in
10	DST/INT/UK/P-128/2016	Development of Cost-effective and Green Assay Technology for the Selective Detection of Toxic Metal Ions using Functionalized Gold Nanoparticles.	Material Science	Dr Brian G Cousins, 20 Craigavon Road, Hemel Hempstead, Hertfordshire, HP2 6BA.	Dr.(Mrs) Nilotpala Pradhan Environment & Sustainability Department, Institute of Minerals & Materials Technology, Bhubaneswar-751013	nilotpala_pradhan@yahoo.co.in
11	DST/INT/UK/P-129/2016	Big Data Aware High Capacity Wireless Network Architecture Using Caching and Machine Learning	Data Science	Professor Tharmalingam Ratnarajah, The University of Edinburgh (UEDIN) Institute for Digital Communications School of Engineering Alexander Graham Bell Building King's Buildings Mayfield Road	Dr Vimal Bhatia, Discipline of Electrical Engineering Indian Institute of Technology Indore, Simrol, Indore-453552 India	vbhatia@iiti.ac.in

12	DST/INT/UK/P-130/2016	Nature and nurture in arsenic induced toxicity of Bihar, India	Human Health	Dr Debapriya Mondal, University of Salford School of Environment and Life Sciences Room 322, Peel Building, Salford M5 4WT,	Professor Shatrunjay Kumar Singh, Anugrah Narayan College, (A.N.College) Department of Environment and Water anagement (EWM), Technical Block, Boring Road, Patna – 800013, India	shatrunjay54@gmail.com
13	DST/INT/UK/P-131/2016	Facilitating the Intelligent Management of Chronic Wounds in Diabetic Patients: Developing Accessible Wound Monitoring Technologies	Human Health	Prof James Davis, Ulster University School of Engineering Shore Road Jordanstown BT37 0QB Northern Ireland	Dr. Ashish Mathur, Amity Institute of Nanotechnology Amity University Sector-125, Express highway Noida, India	amathur@amity.edu
14	DST/INT/UK/P-132/2016	Engineering novel electronic and magnetic states in pyrochlore iridates - multifunctional materials for next generation devices	Material Science	Dr Niladri Banerjee, Loughborough University Epinal Way Loughborough LE11 3TU, United Kingdom	Prof. Subham Majumdar, Indian Association for the Cultivation of Science , 2A & 2B Raja S C Mullick Road Kolkata 700032, India.	sspsm2@iacs.res.in
15	DST/INT/UK/P-133/2016	Miniaturised particulate sensors for climate science	Climate Research	Prof. Ashwin A. Seshia, University fo Cambridge, UK	Prof. Maryam Shojaei Baghini, Department of Electrical Engineering Indian Institute of Technology- Bombay Powai, Mumbai, 400076 India	mshojaei@ee.iitb.ac.in

16	DST/INT/UK/P-134/2016	Investigating BRCAness in epithelial ovarian cancer (EOC) in India to develop stratified surgical and chemotherapy options	Human Health	Dr. Nicola Curtin, Newcastle University, Northern Institute of Cancer Research (NICR) Paul O'Gorman Building Medical School, Framlington Place NE2	Dr Asima Mukhopadhyay Consultant Gynaecological Oncology, Tata Medical Centre and TTCRC, Kolkata	asima.mukhopadhyay@tmckolkata.com;
17	DST/INT/UK/P-135/2016	Understanding Recent Extreme Events in India in the Context of Climate Change	Climate Research	Dr. Friederike E. L. Otto Senior Researcher and Scientific Coordinator, climateprediction.net, Environmental Change Institute University of Oxford	Prof. Arpita Mondal, Assistant Professor, Department of Civil Engineering & Associate Faculty Member, Interdisciplinary Program in Climate Studies IIT, Bombay	marpita@civil.iitb.ac.in
18	DST/INT/UK/P-136/2016	Investigating the regulation and manipulation of autophagy, mitophagy and xenophagy upon <i>Mycobacterium tuberculosis</i> infection in human embryonic stem cell-derived macrophages.	Human Health	Dr. Sovan Sarkar, Institute for Cancer and Genomic Sciences, Institute of Biomedical Research, College of Medical and Dental Sciences, University of Birmingham, Edgbaston, Birmingham B15 2TT, United Kingdom	Dr. Dhiraj Kumar, International Centre for Genetic Engineering and Biotechnology, Aruna Asaf Ali Marg, New Delhi 110067,	dhiraj@icgeb.res.in

19	DST/INT/UK/P-137/2016	Concentrated Photovoltaic (CPV) Assisted Tandem Artificial Photosynthetic (AP) Device for Effective Solar-to-Chemical Conversion	Material Science	Dr ASIF ALI TAHIR, Lecturer in Renewable Energy, Environment and Sustainability Institute College of Engineering, Mathematics and Physical Sciences University of Exeter Cornwall Campus; Penryn	Dr. Bala Pesala Senior Scientist, CSIR-CEERI Chennai CSIR-Central Electronics Engineering Research Institute CSIR Madras Complex CSIR Road, Taramani Chennai, India 600113	balapesala@gmail.com
20	DST/INT/UK/P-138/2016	Data-Driven Intelligent Energy Management for Environmentally Sustainable Energy Access	Data Science	Dr Aristides E Kiprakis, The University of Edinburgh Institute for Energy Systems School of Engineering Faraday Building The King's Buildings Edinburgh EH9 3DW Scotland - UK	Dr Naran M. Pindoriya, Indian Institute of Technology Gandhinagar Department of Electrical Engineering Palaj, Gandhinagar – 382355, Gujarat, India	naran@iitgn.ac.in
21	DST/INT/UK/P-139/2016	A Wearable Fetal Movement Monitor for Prenatal Care in Community Medicine Practice	Human Health	Ravi Vaidyanathan, Ph.D. Senior Lecturer in Biomechatronics Department of Mechanical Engineering Imperial College London (ICL)	Dr Suresh Devasahayam Head of Bioengineering Christian Medical College, Bagayam, Vellore 632002 Tamil Nadu, India	surdev@cmcvellore.ac.in

22	DST/INT/UK/P-140/2016	Bio-Climate Feedbacks of Melting Himalayan Ice	Climate Research	Professor Jemma L. Wadham, Bristol Glaciology Centre School of Geographical Sciences University of Bristol University Road Bristol BS8 4SS	A.L. Ramanathan , School of Environmental Sciences Jawaharlal Nehru University New Dehli 110 067 India	alr0400@mail.jnu.ac.in
23	DST/INT/UK/P-141/2016	Understanding differences in the patterns of osteoarthritis in Indian and Western population: Impact on symptoms, treatment options and their outcome	Human Health	Professor Hemant Pandit, University of Leeds Woodhouse Lane Leeds , UK LS2 9JT	Prof Rajesh Malhotra, Department of Orthopaedics All India Institute of Medical Sciences Ansari Nagar New Delhi -11002	rmalhotra62@hotmail.com
24	DST/INT/UK/P-142/2016	Advancing MEG based Brain-Computer Interface Supported Upper Limb Post-Stroke Rehabilitation	Human Health	Professor Girijesh Prasad Intelligent Systems Research Centre, School of Computing and Intelligent Systems, Faculty of Computing & Engineering, Ulster University, Magee Campus, Londonderry BT48 7JL, N. Ireland, UK.	Professor Ashish Dutta Department of Mechanical Engineering, IIT Kanpur, Kanpur 208016, India.	adutta@iitk.ac.in

25	DST/INT/UK/P-143/2016	Estimating silicate weathering in a rising CO2 world from river water chemistry and lab-experiments: implications for future climate models	Climate Research	Dr. Alexandra Turchyn, University of Cambridge Department of Earth Sciences Downing Street Cambridge	Dr.Ramananda Chakrabarti, Indian Institute of Science Center for Earth Sciences C. V. Raman Road Bangalore 560012 Karnataka, India	ramananda@ceas.iisc.ernet.in
26	DST/INT/UK/P-144/2016	Towards an integrated approach for assessing the impact of climatic stresses on agriculture and the exchange of greenhouse gas on the Indo-Gangetic Plain	Climate Research	Dr Hartmut Boesch, Earth Observation Science Group Leicester Institute for Space and Earth Observation University of Leicester University Road Leicester LE1 7RH UK	Professor Sachchida Tripathi, Department of Civil Engineering Indian Institute of Technology Kanpur (IIT-Kanpur) P. O. –I.I.T. Kanpur 208 016	snt@iitk.ac.in
27	DST/INT/UK/P-145/2016	Ultrasound based assessment of tissue biomechanics to enhance the clinical management of foot related pathologies	Human Health	Professor Nachiappan Chockalingam, Staffordshire University	Professor Muthaiah Rajappa , SASTRA University	sjamuthaiah@core.sastru.edu
28	DST/INT/UK/P-146/2016	Learning Robotic Motor Skills, Visual Control and Perception for Warehouse Automation	Data Science	Professor Sethu Vijayakumar, University of Edinburgh Department of Informatics 10 Crichton Street Edinburgh EH8 9AB, United Kingdom	Professor Laxmidhar Behera, Department of Electrical Engineering Indian Institute of Technology Kanpur 208016, UP, India	lbehera@iitk.ac.in
29	DST/INT/UK/P-147/2016	Investigation of neurodegeneration associated with defective DNA break repair	Human Health	Professor Sherif El-Khamisy, University of Sheffield Firth Court, Western Bank Sheffield	Professor K. Satyamoorthy, School of Life Sciences Manipal University Manipal 576104 Karnataka, INDIA	ksatyamoorthy@manipal.edu

30	DST/INT/UK/P-148/2016	Pursuit of Novel and Enhanced Optoelectronic Effects in Hybrid Perovskite Based Nanostructures	Material Science	Prof. Sir Richard Friend, University of Cambridge Department of Physics / Cavendish Laboratory JJ Thomson Avenue Cambridge CB3 0HE United Kingdom	Prof. Satishchandra B. Ogale, Department of Physics and Centre for Energy Science Indian Institute of Science Education and Research Dr. Homi Bhabha Road, Pashan Pune 411008, India	satishogale@iiserpune.ac.in
31	DST/INT/UK/P-149/2016	Role of Entropy and information encoding in Guided Self- Assembly of Materials	Material Science	Daan Frenkel, University of Cambridge The University Chemical Laboratory Lensfield Road, Cambridge CB2 1EW, UK	Srikanth Sastry, Jawaharlal Nehru Centre for Advanced Scientific Research Jakkur Campus, Bengaluru 560064, INDIA	sastry@jncasr.ac.in
32	DST/INT/UK/P-150/2016	Non-parametric Smart Sensing Analytics based on Large Spectrum Data and Estimation of Channel Activity Statistics	Data Science	Dr Miguel López-Benítez, University of Liverpool Department of Electrical Engineering and Electronics Brownlow Hill Liverpool L69 3GJ United Kingdom	Dr. Dhaval K. Patel, School of Engineering and Applied Science Ahmedabad University GICT Building, Central Campus Navrangpura, Ahmedabad 380009 Gujarat, India	dhaval.patel@ahduni.edu.in