

Major International Sponsored Research Projects Undertaken During the Financial Year 2018-19

Title	Sponsoring Agency / Collaborating Institute	Sanctioned Funds (Rs. Lacs)	Principal Investigator / Department
IBM - IITD AI Horizons Network - Neuro-Symbolic Information Systems	International Business Machines Corporation United States	450.00	Srikanta Bedathur Jagannath Dept. of Computer Science & Engineering
Research in Human-Centered Robotics with special emphasis on Field and Bio-Medical Rehabilitation (Indo-Korea Joint Network Centre on Robotics)	Undertaken through DST <u>Participating Institutes</u> Chungnam National University Kyungpook National University Knokuk University Korea Aerospace University Daegu Gyeongbuk Institute of Science & Technology IIT Roorkee NAL Bangalore CSIR-CMERI Durgapur CSIR-CEERI Pilani	223.77	Subir Kumar Saha Dept. of Mechanical Engineering
Biotechnology for the recovery of germanium, indium and copper from industrial copper dust waste (Bio-CuInGe)	Indo German Science and Technology Centre (IGSTC) <u>Participating Institutes</u> Helmholtz Zentrum Dresden Rossendorf, Germany GEOS Ingenieurgesellschaft mbH, Germany Laksmi Life Sciences Coimbatore, India	161.00	Shaikh Ziauddin Ahammad Dept. of Biochemical Engineering & Biotechnology
Geography of Philosophy	John Templeton Foundation United States	71.34	Purnima Singh Dept. of Humanities & Social Sciences
The development of a taxi-based dispatcher-controlled EMS for Low- and Middle- Income Countries	University of Chicago United States	52.58	Geetam Tewari Dept. of Civil Engineering

Strategic University Network to Revolutionize Indian Solar Energy (SUNRISE)	<p>EPSRC UK</p> <p><u>Participating Institutes</u> Swansea University University of Oxford Brunel University London Imperial College London University of Cambridge IISER Pune IIT Kanpur IICT Hyderabad NPL New Delhi JNCASR Bangalore IISc Bangalore</p>	48.66	Viresh Dutta Centre for Energy Studies
Nanoparticle-2D hybrid structures for smart environmental sensing (2D Sense)	<p>Undertaken through DST</p> <p><u>Participating Institute</u> SINTEF Digital, Norway</p>	35.75	Bodh Raj Dept. of Physics
Harnessing the robust, scalable, and highly porous nonwoven metamaterials with interface engineering aided carbon nanotubes for oil spill clean-ups	<p>Undertaken through DST</p> <p><u>Participating Institute</u> University of Szeged, Hungary</p>	27.54	Amit Rawal Dept. of Textile Technology
Autonomous calibration of robot cameras using on-body markers	<p>Undertaken through DST</p> <p><u>Participating Institute</u> Kazan Federal University, Russia</p>	25.55	Subir Kumar Saha Dept. of Mechanical Engineering
Games and Optimization for Energy Management with Stochasticity-GOEMS	<p>Indo French Centre for Promotion of Advanced Research (IFCPAR)</p> <p><u>Participating Institute</u> Paris Sud University, France</p>	19.08	Vikas Vikram Singh Dept. of Mathematics

Setting up a educational video streaming service over low-bandwidth connections	Brilyant Networks Inc. USA	15.00	Subrat Kar Dept. of Electrical Engineering
Sensing and Security for Smart IoT	DST - UKIERI <u>Participating Institute</u> Queen Mary University of London	14.13	Ranjan Kumar Mallik Dept. of Electrical Engineering
Flexible Supercapacitors based on conducting polymer coated metal oxide aerogel nanostructures	Undertaken through DST <u>Participating Institute</u> University of Bradford, UK	13.44	Pravin Popinand Ingole Dept. of Chemistry
Creation of novel organic-inorganic hybrid materials as sorbents for wastewater treatment from heavy metal ions (Indo-Ukraine Joint Project)	Undertaken through DST <u>Participating Institutes</u> Chuiko Institute of Surface Chemistry, Ukraine	13.03	Bijay Prakash Tripathi Dept. of Material Science & Engineering
Spin Hall nano-oscillator using ferromagnet/antiferromagnet based heterostructures.	Undertaken through DST <u>Participating Institute</u> Kyushu Institute of Technology, Japan	7.52	Pranaba Kishor Muduli Dept. of Physics
Validation and Fine Tuning of the Computer Aided Diagnosis of Pulmonary Tuberculosis Model for the Indian Subcontinent	CRDF Global USA	7.37	Brejesh Lall Dept. of Electrical Engineering
VMware Principal Engineer Grant by Ben Pfaff	VMWare USA	6.54	Sorav Bansal Dept. of Computer Science & Engg.
Novel lipid-filled high strength polymer composite for highly functional joint prosthesis application	Undertaken through DST <u>Participating Institute</u> Kyushu University, Japan	4.36	Sujeet Kumar Sinha Dept. of Mechanical Engineering

Major International Consultancy Jobs Undertaken During the Financial year 2018-19

Title	Sponsoring Agency	Sanctioned Funds (Rs. Lacs)	Consultant Incharge / Department
NV and Tribo-Performance Evaluation and Analysis of Graphite Particles in NAO Brake-pads	Imerys Graphite & Carbon Switzerland Ltd. Switzerland	19.64	Jayashree Bijwe Industrial Tribology, Machine Dynamics & Maintenance Engineering
Review of the Structural Design of Mauritius Cancer Hospital	Swadesh Civil Infrastructure Pvt. Ltd. Mauritius	5.00	Shashank Bishnoi Dept. of Civil Engineering