

Department of Science & Technology
International Division

An India-Egypt Joint call for proposals under the collaboration between Department of Science & Technology, India and Academy of Scientific Research and Technology (ASRT), Egypt was announced on December 02,2016 in the area of Information and Communication Technology, Nanotechnology and Biotechnology. In total 120 joint proposals were received against the Call for which last date was January 31,2016. Based on scientific merit, national priority of both the countries and scientific strengths of the project coordinators, Department of Science & Technology, India and Academy of Scientific Research and Technology (ASRT), Egypt have jointly decided to support following **20** proposals. Project coordinators are being informed separately to complete administrative formalities for release of DST grant.

Sl. No	Title	Indian Coordinator	Egypt Coordinator
1.	Molecular-physiological Characterization of Epigenetic Components Affecting Plant Development Under Drought and High Temperature Stress	Prof. Sanjay Kapoor, Department of Plant Molecular Biology, University of Delhi.	Dr. Hatem El-Shabrawi; GE & Biotech. Div; NRC
2.	Regulation of the Gonadotrophin- ovarian Axis by kisspeptin Kiss1/R System in cattle and Buffaloes	Dr Mohan Mondal Senior Scientist (Animal Physiology) ICAR-NDRI, Eastern Regional Station, Kalyani, West Bengal	Dr. Hassan Shawky Mohamed Youssef, Reproduction Research Institute, Egypt
3.	Identification and Analysis of microRNA Involved in Regulating Heat Stress Responses in Tomato	Neeti Sanan Mishra, Plant RNAi Biology, ICGEB, New Delhi	Dr. Moahmed Abdelsattar Hassan Ali , A.G.E.R.I. , Egypt
4.	Molecular characterization of major candidate genes associated with milk quality in Egyptian and Indian buffaloes	Dr Vinod Chhokar, Guru Jambheshwar University of Science and Technology, Hisar	Dr. Hossam E. Rushdi; Dept. of Animal Production, Faculty of Agriculture, Cairo
5.	Synthesis, spectroscopic characterization and molecular modeling studies of new metal chelates as therapeutle agents	Prof. Prasad V. Bharatam , Dept. of Medicinal Chemistry, NIPER Mohali	Prof. Abhou Saad El-Table, Chemistry Dept. Faculty of Science, Menoufia , Egypt

6.	Liposome Encapsulated Azadiradione for triple negative breast cancer treatment.	Dr. Ajaikumar B. Kunnammakara, Department of Biosciences and Bioengineering, IIT, Guwahati.	Farid A. Badri , Mansoura University, Egypt
7.	Performance Improvement in Indoor Visible Light Communication (VLC) System using MIMO-OFDM based Techniques	Prof. Anand Srivastava Electronics & Communication Engineering, IIT Delhi	Dr. Hossam A.I. Selmy , Cairo University , Giza, Egypt.
8.	Modeling and implementation of free space optical transceiver for next generation optical communication applications.	Dr. Vijay Janyani Dept. of Electronics and Communication Engineering (MNIT), Jaipur	Dr. Tawfik Ismail Tawfik, Departemnt of Engineering, NILES, Cairo
9.	Decision Support System to Estimate Water Requirements for the Major Crops	Dr. Rakesh Sharda Dept. of Soil and Water Engineering Punjab Agricultural Univ., Ludhiana	Dr. Mohamed Abdrabou, 29 El-Bost St. Cario Egypt.
10.	Fabrication and Characterization of Functional Polymeric matrix by click-chemistry for Medical Applications and 3D bioprinting.	Dr. Sourabh Ghosh Associate Prof. Department of Textile Technology (IIT) Delhi	Dr. Nabil Youssri Abouzied, El- Behouth St. Dokki, Cairo , Egypt
11.	Production of new non-toxic photoluminescent nano-materials and their applications in energy and forensic fields	Dr. L. Robindro Singh Asst. Prof Dept. of Nanotech North-Eastern Hill University, Shillong	Mona Mostafa Saif, Ain Sharms University
12.	Novel porous materials as electrolytes for energy devices	Dr. A. Manuel Stephan, CSIR-CECRI, Karaikudi	Mohmed Helmy Alkordi, University of Science and Technology, Center for Material Science, Zewail, Egypt.
13.	Plastic to Fuel (p2f): Gasification and Pyrolysis of Waste Plastic for Fuel Generation through Nano Catalytic Conversion	Er. Paltu Acharjee Energy Environment Technology Development(TERI)New Delhi	Dr. Asmaa Hamouda ,Faculty of the Postgraduate Studies, Beni-Suef University.

14.	Fabrication of thin film solar cell based on nanostructured Cu₂ZnSn(S_xSe_{1-x})₄	Dr. Pramod S. Patil, Thin Film Materials Laboratory, Shivaji University, Kolhapur	Prof. Mostafa Boshta, Solid State Physics Dept. National Research Centre, Egypt.
15.	Borate based bioactive glass nano-fibres for topical application for treatment of non healing diabetic wounds	Jui Chakraborty , Bioceramics and Coating Division (CGCRI) Jadavpur, Kolkata	Mona K. Marei, Faculty of Dentistry, Alexandria University, Egypt.
16.	High performance 1D metal oxide/Type II QDs hybrid nanoarchitecture for solar energy conversion	Chinnakonda S. Gopinath, Catalysis Division, National Chemical Laboratory , Pune	Aiat Hegazy, National Research Centre, Solar Energy Department, Giza
17.	Damping enhancement of Laminated Composite Plate using CNT.	Dr. S. Devendiran, Dept. of Design and automation Engineering, VIT university	Dr. Nouby mahdy Ghazaly, Dept. of Mechanical Eng. South Valley University
18.	Studying structure and chemistry within and at the interfaces of nano lamella in cold rolled Ti-alloys using Transmission Electron Microscopy to determine reason behind its superior strength	Somnath Bhattacharyya, Dept. of Metallurgical and Materials Engineering IIT-M, Chennai	Mohamed Abdel-hady Gepreel, Japan University for Science and Technology, Egypt.
19.	Organic- inorganic hybrid mesoporous materials as carriers of Anti-inflammatory Drugs for Controlled Delivery Systems	Prof. Asim Bhaumik, Senior Prof. Deptt. of Materials Science Jadavpur, Kolkata	Prof. Amany A. Mostafa, National Research Center, Egypt
20.	Nano materials- RO antifouling membrane formulations for water desalination	Dr. Raghuram Chetty, Prof. Chemical Engineering Department IIT-M, Chennai	Dr. Marwa S. Shalaby , National Research Centre - Giza- Egypt