

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 in September 2018 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 March 31, 2019. 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 **25** proposals. Project coordinators are being informed separately to complete administrative formalities for release of DST grant.

S.no.	Area	Title	Indian Coordinator	Egypt Coordinator
1.	Biotechnology	Domesticating soil microbiome for mitigation of drought stress tolerance in tomato via rhizosphere engineering	Dr.Shilpi Sharma Indian Institute Of Technology Delhi	Mervat Hamza on behalf of Prof. Nabil Abraham Hegazi Cairo University
2.	Biotechnology	Biogas for people Multi feed-stock solid-state anaerobic co-digestion and role of bio-nano-particles for the development of robust and sustainable methanogenesis in India and Egyptian cooperation with India and Egypt.	Dr.Vivekanand Malaviya National Institute Of Technology, Jaipur	Dr. Mohamed Ahmed Mosa Mohamed Nanotechnology And Advanced Materials Laboratory,Plant Pathology Research Institute
3.	Biotechnology	Mining the genetic diversity for rust resistance in wild wheat <i>Aegilops tauschii</i> through combination of and Genome AgRenSeq Wide Association Mapping	Dr.Parveen Chhuneja Punjab Agricultural University	Dr Ahmed Fawzy Elkot Wheat Research Department, Field Crops Research Institute, Agricultural Research Center
4	Biotechnology	Economical and ,Social issues of Environmental biofilm formation and marine biofouling in RO systems	Dr.Asifa Qureshi CSIR NEERI	Dr. Reyed M Reyed City For Scientific Research And Applied Technology 'SRTA-CITY'

5.	Information & Communication Technology	Use Of Big Data Analytics For Adapting Impact Of Climate Change On Water Resources	Dr.Rajan Aggarwal Punjab Agricultural University	Dr. Ahmed Awny Ahmed Farag Cairo, Egypt
6.	Chemistry, Veterinary Sciences	Single/ Binary Metal Nanoparticles Loaded Nano-Carriers Using Medicinal Plants Extract And Their Application In Tissue Culture Medium As Media Additive For Optimizing Laboratory Production Of Bovine Embryos.	Dr.Saiqa Ikram Jamia Milia Islamia, Central University	Prof. Dr. Saber Mohamed Abd- Allah Beni-Suef University
7.	Organic Chemistry And Physical Chemistry	High Performance Biofuel Cells Based On Novel Conducting Polymers Nanocomposites	Prof.Santosh J Gharpure Indian Institute Of Technology Bombay	Ass. Prof. Ziad Khalifa Petroleum Engineering And Gas Technology Department, British University
8.	Information & Communication Technology	Investigations On The Physical And Optical Performances Of Er ³ /Yb ³ Co-Doped Silica-Phosphate Glasses To Develop High Gain Laser Materials With Enhanced Wave Guide Optical Application	Dr.D Geetha Anna University, Madras Institute Of Technology Campus	Prof. Inas Kamal Battisha Solid State Physics Department, Physics Research Division, National Research Centre, Dokki, Giza 12622, Egypt
9.	Nanotechnology	Development And Fabrication Of Electrochemical Nanostructured Immunosensing Strips For Point-Of-Care Biomedical Testing Of Vitamin D Deficiency	Dr.Pradeep Kumar Brahman Koneru Lakshmaiah Education Foundation Deemed To Be University	Dr. Rabeay Y. A. Hassan Nanoscience Program, Zewail City For Science And Technology, Cairo, Egypt.
10.	Energy Application	Fuel Cell Powered Electric Bicycles With Solar Generator Based Refueling Technique For Sustainable Transportation	Dr.Elangovan D Vellore Institue Of Technology	Dr. Abdel Halim 1 Elsaryat St. Abbasis, Cairo, Egypt
11.	Immunology And Microbiology	Molecular Dissection Of The Pseudomonas Aeruginosa Phage	Dr.Vikas Jain Indian Institute Of	Dr. Ayman El- Shibiny

		Endolysin A Step Toward The Next Generation Therapeutics	Science Education And Research Bhopal	University Of Science & Technology, Giza, Egypt
12.	Information & Communication Technology	Detection And Forecasting Of Extreme Weather Events In Egypt And India Using Deep Learning	Dr.Shovan Barma Indian Institute Of Information Technology Guwahati (IIITG)	Dr.Marwa Sayed Moustafa 23 Joseph Tito Street El-Nozah El-Gedida
13.	Nanotechnology	Hybridization Of Flexible Thermoelectric And Piezoelectric Devices For Energy Harvesting	Dr.Pandiyarasan Veluswamy Indian Institute Of Information Technology Design And Manufacturing Kancheepuram, Chennai	Dr. Alaa Adam Sohag University
14.	Nanotechnology	Development Of Cost-Effective New Catalyst Technologies For High Performance Polymer Electrolyte Membrane Fuel Cells	Dr.Santosh Mysore Jyothy Institute Of Technology	Dr. Islam M. Al-Akraa The British University In Egypt
15.	Nanotechnology	Novel Nano-Structured Enabled Drug Delivery System For The Treatment Of Tauopathy In Animal Model	Dr.Gurpal Singh University Institute Of Pharmaceutical Sciences, Panjab University, Chandigarh	Ass. Prof. Rehab Hamdy Ahmed Elsaid Ashour 60 El-Gomhoria St., Mansoura University
16.	Information & Communication Technology	Development Of Irrigation Management Information And Communication System (IMICS) For Humid Tropical Kerala And Arid Climate Of Egypt As A Decision Support Systems (DSS) Tool For Improving The Crop Productivity	Dr.U Surendran Centre For Water Resources Development And Management (CWRDM)	Dr. Karam A. Elzopy Alexandria University
17.	Nanotechnology	Experimental Investigations On FDM And SLA Printed Personalised Drug Delivery Systems	Dr.Varun Sharma Indian Institute Of Technology, Iit Roorkee	Dr. Haytham Elgazzar Central Metallurgical Research & Development

				Institute
18.	Nanotechnology	Fabrication And Development Co-Doped Lanthanum Gallate Perovskite Nanoparticles Materials As Electrolyte For Solid Oxide Fuel Cells Sofcs	Dr.Suresh Babu K Pondicherry University	Dr. Diaa El Rahman Ahmed Rayan Central Mettalogical Research & Development Institute(CMRDI)
19.	Nanotechnology	Nanotechnological Interventions To Convert Tannery Solid Waste Into Value Added Nanofibrous Membranes	Dr.N Nishad Fathima CSIR Central Leather Research Institute	Dr. Ahmed Ibrahim Nasr 1 Mathaf, El-Matarya, Cairo, Egypt
20.	Nanotechnology	Development Of Graphene Based Nanomaterials For Bioelectricity Generation Through Tannery Wastewater Treatment Using Microbial Fuel Cell	Dr.Samsudeen N National Institute Of Technology Tiruchirappalli Trichy	Prof.Kamel Mohamed Mahmoud El-Khatib National Research Center, Giza, Egypt
21.	Nanotechnology	A Novel Integration Of Tio2 Nanotubes And Hydrogen Storage Alloy For A Solar-Water Based Rechargeable Fuel Cell Battery	Prof.Ranjit Bauri IIT MADRAS	Dr. Ahmad M. Mohammad Cairo University, Egypt
22.	Biotechnology	Evaluation Of The Production Strategies, Nutritional Value And Therapeutic Properties Of Probiotic Seabuckthorn Juice	Dr.Ashwani Mathur Jaypee Institute Of Technology Noida	Sobhy EI Sohaimy Arid Lands Cultivation Research Institute
23.	Nanotechnology	Therapeutic Drug Monitoring TDM Of Anticancer Drug In Human Biological Fluid Graphene-Wrapped Plasmonic Nanostructures As Surface-Enhanced Raman Scattering SERS Substrate	Dr.Tamilarasan Palanisamy CSIR “ Central Electrochemical Research Institute	Prof. Maged El-Kemary Kafrelsheikh University

24.	Chemistry And Material Chemistry	Metal Cross-Linked Oxygenated Multi-Layer Polymeric Scaffold For Diabetic Foot Ulcer Wound Healing	Dr.Mariappan Rajan Madurai Kamaraj University	Prof. Wafaa Ismail Abdel-Fattah National Research Centre,
25.	Therapeutic Biochemistry, Biomedical Sciences	Molecular Simulation To Explore Therapeutic Efficacy Of Novel Compounds For Prevention And Management Of Alzheimer Disease	Prof.Rajat Sandhir Panjab University, Chandigarh	Maha Zaki Rizk Therapeutic Chemistry Department, National Research Centre, Dokki, Cairo, Egypt