

Department of Science & Technology
International Division

An India-Tunisia Joint call for proposals under the collaboration between DST, India and Ministry of Higher Education & Scientific Research, Tunisia was announced in November 2015. In total 130 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, Govt. of India and Ministry of Higher Education Scientific Research, Tunisia have jointly decided to support following **19** proposals. Project coordinators are being informed separately to complete administrative formalities for release of DST grant.

SI No	Area	Title	Indian Coordinator	Tunisian Coordinator
1.	Health Sciences	Development of an immunohistochemistry assay to detect Mycobacterium tuberculosis PknB PASTA antigen for diagnosis of extrapulmonary tuberculosis.	Prof. Vinay Nandicoori, National Institute of Immunology, Aruna Asaf Ali Marg, Delhi	Prof. Chaouki Benabdessalem, Institut Pasteur de Tunisia
2.	Material Science	Development of starch based polyurethane nano-coatings for packaging application by sonochemical approach	Dr Shirish Sonawane, National Institute of Technology. Department of Chemical Engineering, Telangana India	Dr. Prof Sami Boufi University of Sfax Faculty of Science of Sfax – University, Tunisia
3.	Agriculture Biotechnology	Consequences of long and intensive use of agrochemicals on the legumes-rhizobia symbiosis and potentialities of remediation.	Prof. Manvika Sahgal, G.B. Pant University Of Agriculture & Technology, Pantnagar, INDIA	Dr. Zribi Kais Centre of Biotechnology of Borj Cedria (CBBC) Tunisia
4.	Renewable Energy	Design, Modeling and diagnostic of wind turbines for sustainable energy efficiency	Prof. Anand Parey, IIT Indore, Simrol, INDIA	Prof Fakher Chaari National School of Engineers of Sfax. BP 1173 – 3038 – Sfax. Tunisia
5.	Information Science and Technology	Real-time end-to-end Text Detection and Recognition in the Wild.	Dr. A. Umapada PAL Indian Statistical Institute, Kolkata, INDIA	Prof. Adel M. ALIMI, National Engineering School of Sfax, University of Sfax, TUNISIA
6.	Water Technology	Characterization of Oil Field Water to Mitigate a Major Environmental Hazard with Recovery of Usable Water	Dr. Subrata Borgohain Gogoi, Dibrugarh University, Dibrugarh, Assam, India	Prof. Dr. Monem KALLEL, National Engineering School of Sfax (ENIS), Sfax University, Tunisia
7.	Health Science	Studying vascular implications of scorpion venom by using whole human kinome testing platform	Prof. Dr. Suvro Chatterjee, Anna University, Chromepet, Chennai, Tamil Nadu, India.	Prof. Dr. Lamia Borchani, University Pasteur Institute of Tunisia, Tunis Belvédère, Tunisia.

8.	Material Science	Development and Tribological Characterization of Self Lubricating Nano- Silicon Nitride and Nano-Sialon Ceramic Composites	Dr. Mohd Farooq Wani, National Institute of Technology (NIT) Srinagar, Hazratbal Kashmir, J&K (India)	Prof. Mohamed KHARRAT, National Engineering School of Sfax . Soukra Road, Tunisia
9.	Agriculture Biotechnology	Phytoremediation of Heavy-Metal-Contaminated Soils in Tunisia and India using Frankia-Alnus symbiosis	Prof. Dr. Arnab Sen University of North Bengal. Address of Institution RajaRammohunpur, Siliguri-734013, West Bengal, India	Dr. Prof. Maher Gtari University of Carthage Institut National des Sciences Appliquées et de Technologie Centre Urbain Nord BP 676-1080 Tunis Cedex. Tunisia.
10.	Renewable Energy	Development of multi stage fluid bed biomass gasification system	Dr. Anbumalar V, Velammal College of Engineering and Technology Viraganoor, Madurai, India.	Prof. Borjini Mohamed Naceur, National School Engineering Monastir. Monastir, Tunisia.
11.	Health Science	Comparative study of Shiga Toxin producing Escherichia coli biodiversity in India and Tunisia: An integrated surveillance and molecular characterization of Shiga Toxin producing Escherichia coli (STEC) and its antimicrobial resistance and zoonotic significance.	Dr. A. JagadeeshBabu, Sri Venkateswara Veterinary University, TIRUPATI, Andhra Pradesh,INDIA.	Dr. Lilia Messaidi, School of veterinary sciences SidiThabet, Tunisia.
12.	Material Science	A new three axis MEMS accelerometer based on piezoresistive nanomaterials.	Prof. V. Ramgopal Rao, Indian Institute of Technology - Bombay (IITB), India.	Dr. Brahim Mezghani, National Engineering School of Sfax (ENIS). ENIS, Tunisia.
13.	Material Science	Synthesis of novel low-cost biosorbents based on modifiedcellulosic agro-wastes by tetraethylenepentamine, triethylenetetramine, or diethylenetriamine and adsorption study for anionic dyesremoval.	Prof. Sunil Khare Indian Institute of Technology Delhi HauzKhas, New Delhi 110016, India.	Prof. Achraf GHORBAL Higher Institute of Applied Sciences and Technology of Gabes. Rue Omar ibn el Khattab - 6072 Gabès
14.	Health Science	Identification of major genetic and epigenetic components in the otosclerosis	Dr. PV Ramchander, Institute of Life Sciences (ILS), (an autonomous Institute of DBT, GOI)), Bhubaneswar, Odisha, India.	Prof. Saber Masmoudi, Center of Biotechnology of Sfax (CBS). Sidi Mansour road Km 6, Tunisia.
15.	Renewable Energy	Hierarchical Control of Hybrid Power Systems	Dr. Somnath Maity, Rourkela Research and Technology Center of Energy (CRTE) National Institute of Technology, Rourkela, Odisha, INDIA	Professor Abdelmajid Jemni , Research and Technology Center of Energy (CRTE), Technopark Borj Cedria, Tunisia.

16.	Health science	An Exploratory Study of the Role of Inflammasomes on Aberrant Neurodevelopment in Schizophrenia	Dr. John P. John, National Institute of Mental Health and Neurosciences (NIMHANS), Dharmaram, Bangalore, Karnataka, India	Dr. Besma BEL HADJ JRAD, Higher institute of biotechnology of Monastir. Av.Taher Haddad, Tunisia
17.	Agriculture Biotechnology	Proteomic analysis of the interaction of Agrobacterium tumefaciens and Erwinia amylovora bacterial phytopathogens with Bacillus biocontrol agents and their active compounds in vitro and in plants	Dr. Sanjeeva Srivastava, Indian Institute of Technology, Bombay, Powai, Mumbai, INDIA.	Dr. Olfa Frikha-Gargouri, Centre of biotechnology of Sfax, Sfax, Tunisia.
18.	Material Science	Sustainable and Economical Functionally Graded Rubberized Concrete Pavements	Dr. Sandeep Chaudhary, Malaviya National Institute of Technology, J. L. N. Marg, Jaipur, India.	Dr. Sami El-Borgi, Applied Mechanics and Systems, Research Laboratory, Tunisia.
19.	Agriculture Biotechnology	Diversity of tomato seed borne endophytes and their applications for the promotion of plant growth and defence against pathogens	Dr. Nutan Kaushik, The Energy and Research Institute, New Delhi	Dr. Naceur Djebali, Centre of Biotechnology of Borj Cedria, Tunisia