

Department of Science & Technology
International Division

An India-South Africa Joint call for proposals under the collaboration between Department of Science & Technology, Govt. of India and National Research foundation, Republic of South Africa was announced in July 2019 in the area of Biotechnology, Advanced Materials including Manufacturing and Renewable Energy. In total 82 joint proposals were received against the Call for which last date was September 30, 2019. 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 National Research foundation, Republic of South Africa have jointly decided to support following **10** proposals. Project coordinators are being informed separately to complete administrative formalities for release of DST grant.

S. no.	Area	Title	Indian Coordinator	South African Coordinator
1.	Biotechnology	Vitamin biofortification through fermentation of common energy-dense foods of India and South Africa for young children (3-10 years)	Dr. Sandeep Kumar Panda KIIT School of Biotechnology	Prof Elna Buys University of Pretoria
2.	Biotechnology	Fate of micro-plastics, its occurrence and identification in South Africa and India (Chennai) water systems - a sustainable approach	Dr. Keerthi Anna University, Chennai	Dr Soraya Malinga University of Johannesburg
3.	Advanced Materials incl. manufacturing	Development of a genome engineered stem cell drug toxicity model for developing countries	Prof. K Satyamoorthy School of Life Sciences, Manipal University, Manipal	Dr Janine Scholefield CSIR
4.	Renewable Energy	Extremely Large-Scale Modeling of Elementary Processes in Hydrocarbon Combustion using High-Throughput Atomistic Simulations and Data Science	Dr. Raghunathan Ramkrishnan Tata Institute of Fundamental	Prof LyudmilaMoskaleva University of the Free State

			Research Hyderabad	
5.	Biotechnology	Investigation of cellular and molecular mechanisms involved in conversion of white adipose tissue to brown adipose tissue, as a therapeutic target to alleviate obesity, using selected marine algae	Dr.BalajiMeriga Sri Venkateswara University, Tirupati	Prof Md. Shahidul Islam University of KwaZulu Natal
6.	Biotechnology	Design, preparation and characterization of materials for tunable anomalous thermal expansion and anomalous compressibility	Dr.Dinabandhu Das Jawaharlal Nehru University	Prof Leonard Barbour Stellenbosch University
7.	Renewable Energy	Solar driven co-generation of electricity and water in small, rural communities	Dr. Sujith Kumar C S National Institute of Technology Calicut	Dr Jacob Elisa Hoffmann Stellenbosch University
8.	Renewable Energy	Performance Improvement of Solar Thermal Systems using Magnetic Nanofluids	Dr. Suvanjan Bhattacharyya Bits Pilani	Prof Zhongjie Huan Tshwane University of Technology
9.	Advanced Materials incl. manufacturing	Organic-Inorganic Magnetic Hybrids for Spintronic Device applications	Prof.Amlan J Pal Indian Association for The Cultivation Of Science	Prof Somnath Bhattacharyya University of Witwatersrand
10.	Advanced Materials incl. manufacturing	Experimental and numerical assessment of nanoparticle and micro-balloon infused natural and synthetic fiber reinforced composite sandwich and honeycom	Prof. R Velmurugan Indian Institute of Technology Madras	Prof KrishnanKanny Durban University of Technology