

**Department of Science & Technology**  
**International Division**

Under the joint call for proposal-2021 with German Academic Exchange Service (DAAD) and the Department of Science and Technology (DST), total 48 common proposals were jointly received and shortlisted for evaluation for the financial support for exchange visits between scientists and researchers of India and Germany. Based on scientific merit, complementarities of the project objectives, scientific strengths of the project coordinators and national priorities, the Department of Science & Technology, India and German Academic Exchange Service (DAAD) have jointly decided to support following 21 proposals. Project coordinators are being informed separately to complete administrative formalities for release of DST grant.

Sl.	TPN	Project Title	Indian PI	German PI
1.	73708	Formation of “smart“ hybrid PEO/LDH coating of magnesium alloys for corrosion protection (FoMag)	Prof. Dr. Subodh Kumar, IISc, Bangalore.	Dr. Maria Serdechnova, Helmholtz Zentrum hereon GmbH, Geesthacht
2.	73835	Equilibrium and non-equilibrium behavior of complex systems with multi-state variables, long-range interactions and disorder	Prof. Varsha Banerjee, IIT Delhi	Prof. Martin Weigel, Chemnitz University of Technology, Chemnitz
3.	73769	Planning Human-Robot interactions with learnable DNN modules	Dr. Rahul Kala, IIIT Allahabad	Dr. Andrew Melnik, Institute- Bielefeld University
4.	73812	Revealing Ultrafast Charge Transfer Dynamics Controlling Efficiency of Photofunctional Materials Combination of Femtosecond Pump-Probe and EPR Spectro	Dr. Karunakaran Venugopal, CSIR-NIIST, Thiruvananthapuram	Prof. Jan Behrends, Free University of Berlin
5.	73918	Geo-electrical characterization of the fault zone in the Himalayan foothills and Sub-Himalayan region in and around Mohand area Uttarakhand, India	Prof. Mohammad Israil, IIT Roorkee	Prof. Dr Bulent Tezkan. Institute of Geophysics and Meteorology, Univ. of Cologne
6.	73771	Probing spin-electric effect	Dr. Nayanmoni	Prof. Winfried Plass,

		in cyanido bridged heterometallic chains	Gogoi, Tezpur University	Friedrich Schiller University, Jena
7.	73716	Jump to Contact Suppression during Force Spectroscopy Measurements inside a Scanning Electron Microscope - A Micro Robotic Approach	Prof. Saikat Kumar Shome, Csir- Central Mechanical Engineering Research Institute	Prof. Sergej Fatikow, University of Oldenburg
8.	73964	Development of Metal-Organic Framework Derived Single-Atom Catalysts for Industrial Scale Water Electrolysis and Selective Synthesis of Value Added Products	Dr. Arindam Indra, IIT BHU, Varanasi	Dr. Prashanth Wilfred Menezes, Helmholtz-Zentrum Berlin für Materialien und Energie
9.	73814	Numerical analysis of liquid crystals	Prof. Neela Nataraj, IIT Bombay	Prof. Carsten Carstensen, Humboldt-Universität zu Berlin
10.	73772	GPU Accelerated Meshfree Method Solution for FSI Problem on Hemodynamics and its influence on cancer treatments	Dr. Panchatcharam, IIT Tirupati	Prof. Axel Klar, Technische Universität Kaiserslautern
11.	73983	Study of the Venusian climate through Radio Occultation experiments from orbiting spacecraft and modelling	Prof. Varun Sheel, Physical Research Laboratory, Ahmedabad	Prof. Martin Paetzold, Universität zu Köln, Cologne
12.	73866	Tuning of In-Plane 3D Porous Efficient Electrodes for Microsupercapacitors	Dr. R Ananthakumar, Central Institute of Plastic Engineering And Technology (CIPET), Bhubaneswar	Prof. Lukas Schmidt Mende, University of Konstanz, Konstanz
13.	73984	Exploration of solar flare X-ray emission magnetic reconnection, heating and particle acceleration	Dr. Bhuwan Joshi, Physical Research Laboratory	Dr. Alexander Warmuth, Leibniz Institute for Astrophysics Potsdam AIP, Potsdam
14.	73943	Functional Genomics and Genome editing for Iron biofortification in pigeon pea	Prof. Sanjib Kumar Panda, Central University of Rajasthan, Ajmer	Prof. Petra Bauer, Heinrich Heine University, Düsseldorf

15.	73692	Compact, low-cost digital holographic microscope using VCSEL laser sources and Diffractive lens for point-of-care hematology analysis	Dr. Arun Anand, Maharaja Sayajirao University of Baroda	Dr. Daniel Claus, Institute for laser technologies in medicine and metrology University of Ulm, Ulm
16.	73982	Game-theoretic approach of modelling and estimating the impact of human migration behaviour on malaria endemicity in Sub-Saharan Africa	Prof. Samit Bhattacharyya, Shiv Nadar University, Dadri, Uttar Pradesh	Prof. Ina Danquah, Heidelberg University, Heidelberg
17.	73712	FlyCamXR - Autonomous Camera Drones for Interactive Experiences in Extended Reality Telepresence Applications with Enhanced Naturalness	Dr. Gunasekaran R, Anna University, Madras Institute of Technology Campus, Chennai	Dr. Sebastian Knorr, University for Applied Sciences Jena,
18.	73985	Light-induced processes in spin-crossover coordination nanostructures	Dr. Pradip Kumar Chakraborty, IIT Kharagpur	Prof. Birgit Weber, University of Bayreuth
19.	73931	Thermodynamic and structural characterization of pathways for crystal nucleation in solutions	Prof. Sudeep Neelakantan Punnathanam, IISc, Bangalore	Prof. Michael Engel, nstitute for Multiscale Simula- tions, FAU Erlangen-Nürnberg Cauerstraße 3, 91058 Erlangen
20.	73970	A comprehensive approach to disentangle climate and land cover change impact on water resources DECLARE	Dr. Athira P, IIT Palakkad	Dr. Jens Kiesel, Institute for Natural Resource Conservation Christian-Albrechts- University of Kiel
21.	73937	Femtosecond X-ray photonics with nano- and micro-scale droplets -- dynamics and imaging	Dr. Sivarama Krishnan, IIT Madras, Chennai	Prof. Milutin Kovacev, Leibniz University Hannover