

DST-JSPS Results 2025

Under the Indo-Japan Cooperative Science Programme (IJCSP) Call 2025, a Joint Call for Proposals was issued by the Department of Science and Technology (DST), Ministry of Science & Technology, Government of India and Japan Society for the Promotion of Science (JSPS), Japan for inviting joint research projects and workshops carried out by Indian and Japanese researchers on the mutually agreed areas of i) Physical Sciences ii) Chemical Sciences iii) Life Sciences and Agriculture iv) Mathematics and Computational Science v) Astronomy and Earth Science vi) Materials and Engineering.

2. The last date for submitting the proposals 3rd September, 2025. A total of 281 joint research project proposals and 20 workshop proposals were received against the call. After judicious assessment based on scientific strength, Technical aspects, project objectives and national priorities of both the countries, Department of Science and Technology (DST), India and Japan Society for the Promotion of Science (JSPS), Japan have jointly decided to support the following 30 Research Project proposals and 4 Workshop proposals. The India side PI will be emailed to submit security sensitivity clearance and bank details to process further for release of grant.

List of Selected Joint Research Workshops: -

S.no.	TPN No	Project Title	Indian PI Details	Foreign PI Details
1.	139021	Thermoelectric power generation Advances in solid-state material development, module fabrication and metrology	Dr. Titas Dasgupta, IIT Bombay, Powai, Mumbai 400076	Dr. Michihiro Ohta, National Institute of Advanced Industrial Science and Technology (AIST), Tsukuba, Japan
2.	138561	Workshop on Characterization of the lunar polar volatiles and landing site candidates for volatile exploration missions	Dr. Megha Upendra Bhatt, Physical Research Laboratory Ahmedabad Gujarat, 380009	Prof. Makiko Ohtake, Okayama University, Japan
3.	139066	Anderson Localization, dynamics, and quantum information	Prof. Soumya Bera, IIT Bombay, Powai, Mumbai 400076	Prof. Hideaki Obuse, Hokkaido University, Sapporo, Japan
4.	137552	India-Japan Workshop on Biomolecular Electronics and Organic Nanotechnology for Environment Preservation IJWBME 2026	Prof. Parameswar K Iyer, IIT Guwahati Assam 781039	Prof. Manaka Takaaki, Institute of Science Tokyo, Tokyo, Japan

List of Selected Joint Research Projects: -

S.no.	TPN No	Project Title	Indian PI Details	Foreign PI Details
1.	139164	Unravelling Cereal Genetic and Soil Microbiome Information for Resilient Crop Production	Prof. Sivakumar Uthandi, Agricultural Microbiology, Tamil Nadu Agricultural University	Dr. Akihiko Kamoshita, The University of Tokyo, Japan

2.	139042	Chemical Pollution in India A One Health Perspective on Impacts to Wildlife, Livestock and Environment	Dr. Hemen Sarma, Bodoland University Kokrajhar Assam 783370	Dr. Shouta Nakayama, Hokkaido University, Hokkaido, Japan
3.	137409	Probing cosmic magnetism and cosmic web structure in the Universe employing numerical simulations and uGMRT radio observations	Dr. Surajit Paul, Manipal Academy of Higher Education Karnataka 576104	Dr. Takuya Akahori, National Institutes of Natural Sciences, Mitaka, Japan
4.	139128	Machine Learning-Driven Convergent Electrochemical Organic Transformations	Prof. V Sridharan, University Of Hyderabad Telangana 500046	Prof. Shinobu Takizawa, The University of Osaka, Japan
5.	139120	Understanding the orbital Hall effect using time domain THz spectroscopy	Prof. Rohit Medwal, IIT Kanpur, Uttar Pradesh 208016	Prof. Yasuhiro Fukuma, Kyushu Institute of Technology, Iizuka, Japan
6.	139094	Investigation of Long-term effect of residual nanoparticles, microplastics and antibiotics in reuse wastewater on agriculture soil microbes and plant growth	Dr. Arun Kumar, IIT Delhi, Hauz Khas, New Delhi 110016	Prof. Toru Watanabe, Life and Environmental Sciences, Yamagata University, Tsuruoka, Japan
7.	139139	Concentration, symmetry and other geometric properties of solutions of nonlinear PDEs on manifolds.	Prof. Jyotshana V Prajapat, University Of Mumbai, Maharashtra 400032	Dr. Futoshi Takahashi, Osaka Metropolitan University, Osaka, Japan
8.	139096	Collaborative research on genomic engineering of saturniid silkmoths in Asian regions toward innovative biotechnology	Dr. Himanshu Dubey, Seribiotech Research Laboratory Bangalore Karnataka 560035	Prof. Toru Shimada, Gakushuin University, Tokyo, Japan
9.	139097	Exploration of novel high thermal conductivity materials by higher-order phonon informatics	Dr. Navaneetha Krishnan Ravichandran, Indian Institute Of Science, CV Raman Road Bengaluru Karnataka 560012	Prof. Junichiro Shiomi, The University of Tokyo, Tokyo, Japan
10.	139108	High temperature creep- fatigue behavior of additively manufactured metal-ceramic composite material under non- proportional multiaxial loading	Dr. Niloy Khutia, Indian Institute Of Engineering Science And Technology, Shibpur West Bengal 711103	Dr. Takamoto Itoh, College of Science and Engineering, Ritsumeikan University, Shiga, Japan

11.	139095	Exploring Cosmic reionizers using the Indian Space Telescope AstroSat and JWST	Prof. Kanak Saha, Inter University Centre For Astronomy And Astrophysics, Pune Maharashtra 411007	Prof. Akio Inoue, Faculty of Science and Engineering, Waseda University, Shinjuku-ku, Tokyo, Japan
12.	139111	Development of nitrogen-smart and ecologically sustainable wheat cultivation system harnessing biological nitrification inhibition (BNI)	Dr. Ajay Kumar Bhardwaj, Central Soil Salinity Research Institute, Haryana132001	Dr. Junichi Kashiwagi, Hokkaido University, Sapporo, Japan
13.	139127	High-Resolution Measurement and Modeling of Flow, Mass Transfer, and Reaction in Thrombus Formation	Dr. Supreet Singh Bahga, IIT DELHI, Hauz Khas New Delhi	Prof. Kazuya Tatsumi, Kyoto Institute of Technology, Kyoto, Japan
14.	136599	Multi-functional carbon layers for aerospace composite structures	Dr. Bhanu Pratap Singh, National Physical Laboratory, Delhi 110012	Prof. Tomohiro Yokozeki, The University of Tokyo, Tokyo, Japan
15.	139074	Targeted Neurodegeneration Therapy using Biomimetic Nanoparticle Transcription Factors	Prof. Subramaniam Ganesh, IIT Kanpur, Uttar Pradesh 208016	Dr. Ganesh Pandian, Institute for Advanced Study, Kyoto University, Kyoto, Japan
16.	138295	Photochemical Strategies for Skeletal Editing of Heteroaromatic Frameworks	Prof. Debabrata Maiti, IIT Bombay, Powai Mumbai 400076	Mr. Hideki Yorimitsu, Kyoto University Japan
17.	139078	Microfluidics-assisted synthesis of gold nanoparticles for optoporation-mediated CAR-T cell production Japan side Topic- Optoporation with Microfluidically Synthesized Gold Nanoparticles for CAR-T Cell Manufacturing	Prof. Tuhin Subhra Santra, IIT Madras Chennai Chennai Tamilnadu-600036	Prof. Moeto Nagai, Toyohashi University of Technology, Toyohashi, Japan
18.	138686	Search for novel quantum states in altermagnets for device application	Dr. Jayita Nayak, IIT Kanpur Uttar Pradesh 208016	Prof. Kenya Shimada, Hiroshima University, Higashi-Hiroshima, Japan

19.	136961	Harnessing Iontronic Memtransistors for Next-Generation Reservoir Computing	Dr. Bikas Chandra Das, Indian Institute Of Science Education And Research Thiruvananthapuram Kerala, 695551	Dr. Takashi Tsuchiya, National Institute for Materials Science, Tsukuba, Japan
20.	138182	Interdisciplinary Research towards Hydrogen-Compatible Self-Healing Polymer Coatings Integrating Chemistry and Mechanical Engineering	Dr. Prabakaran Saravanan, BITS Pilani Hyderabad Telangana 500078	Prof. Masanobu Kubota, IICNER Kyushu University, Fukuoka, Japan
21.	137166	Exploring the new avenues for precision genome editing for trait improvement in crops	Dr. Ajay Kumar Pandey, National Agri Food Biotechnology Institute Nabi Mohali Punjab 140306	Prof. Takashi Yamamoto, Hiroshima University, Hiroshima, Japan
22.	135223	Bilateral Advancement of Regenerative Therapies Through Induced Pluripotent Stem Cell-Derived Mesenchymal Stem/Stromal Cells iMSCs	Dr. Binulal Nelson Sathy, Amrita Center For Nanosciences And Molecular Medicine, Kochi Kerala 682041	Dr. Makoto Ikeya, Kyoto University, Kyoto, Japan
23.	138290	Intersection of Topology and Strong interactions in Quantum Matter	Dr. Ankur Das, IISER Tirupati Andhra Pradesh 517507	Prof. Yasuhiro Tada, Hiroshima University, Hiroshima, Japan
24.	138205	THz spin and magnon dynamics in quantum magnetic heterostructures	Prof. Anjan Barman, Satyendra Nath Bose National Centre For Basic Sciences, Kolkata West Bengal 700106	Prof. Shigemi Mizukami, Tohoku University, Sendai, Japan
25.	138047	Pathophysiological Analysis Of Hemolysis And Cell Free Histone Induced Thromboinflammation Using Vascular-On-A-Chip	Prof. Kesturu S Girish, Biochemistry, Tumkur University, Vishwavidyanilaya Karyalaya Karnataka 572103	Prof. Kenichi Funamoto, Professor, Tohoku University, Sendai, Japan
26.	138082	High-Entropy Alloy Electrocatalysts Supported on Carbon Nanostructures for Low-Cost, Large-Scale Green Hydrogen Production via AEM Water Electrolyzer	Dr. Kaushik Ghosh, Institute of Nano Science Technology, Punjab Mohali Punjab 160062	Prof. Takahiro Maruyama, Meijo University, Nagoya 468- 8502, Japan
27.	138081	Linking Field Studies and Simulation Experiments for Exploration, Construction, and Habitability Japan side Topic -Testing Martian Regolith Analogs:	Dr. Sajin Kumar KS, University Of Kerala, Thiruvananthapuram 695581	Dr. Trishit Ruj, Institute for Planetary Materials, Okayama University, 827 Yamada, Misasa, Tohaku District, Tottori 682-0193, Japan

		Linking Field Studies and Simulation Experiments for Exploration, Construction, and Habitability		
28.	137637	Investigation of topochemically synthesized helical polymer crystals as stationary phases for chiral chromatography	Prof. Kana M Sureshan, Professor, IISER Thiruvananthapuram, Trivandrum Kerala 695551	Prof. Tomoyuki Ikai, Nagoya University, Nagoya 464-8603, Chikusa-ku, Japan
29.	137420	Bacteria-mediated organic selenium metabolism in the selenium cycle	Prof. MS Reddy, Thapar Institute Of Engineering And Technology, Patiala Punjab 147004	Dr. Hisaaki Mihara, Ritsumeikan University, Kusatsu, Japan
30.	135503	Development of High-Efficiency and Long-Lifetime Blue Circularly Polarized Organic Light-Emitting Diodes for Next-Generation 3D Display Applications	Prof. Achalkumar Ammathnadu Sudhakar, Indian Institute of Technology Guwahati 781039	Prof. Kazumasa Funabiki, Gifu University, 1-1 Yanagido, Gifu 501-1193, Japan