

DST-JSPS Results 2022

Result for joint Proposals by Department of Science & Technology (DST), Government of India and Japan Society for the Promotion of Science (JSPS), Japan under India Japan Cooperative Science Programme (IJCSP), 2022 on joint research projects and workshops 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 vii) COVID-19 related (Pre and post COVID) is finalised.

2. The last date for submitting the proposals was on 6th September, 2022. A total of 117 common eligible joint research project proposals and 7 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 15 project proposals and 2 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 Projects: -

<u>S.No</u>	<u>TPN. No.</u>	<u>Project Title</u>	<u>Indian PI/Institute</u>	<u>Japanese PI/Institute</u>
1.	85287	Mechanochemical cutting of metals	Prof. Koushik Viswanathan/ IISC- Bangalore	Prof. Tatsuya Sugihara Institute- Osaka University
2.	85238	Development of two-dimensional spintronic nanosheets using high-temperature antiferromagnetic oxides with honeycomb lattices	Prof. Sunil Nair/ IISER Pune	Prof. Kazunari Yamaura National Institute of Materials Science NIMS, Tsukuba
3.	84953	Precise observation and statistical analysis of pulsars for pulsar timing array	Prof. Shantanu Desai/ IIT Hyderabad	Prof. Keitaro Takahashi Institute- Kumamoto University
4.	85195	Detection of Viral RNA by Two-Fold Cyclic Amplification Method	Dr. Ankan Dutta Chowdhury/ Amity University, Kolkata	Prof. Enoch Y Park Institute- Shizuoka University

5.	8494 9	Inherent stimuli triggered colloidal nanocarrier-based formulation for the management of ocular ailments and its pharmacokinetic investigation	Dr.ManjuMisra/ Gujarat Technological University	Dr. Noriaki Nagai Institute- Associate professor, Faculty of Pharmacy, Kindai University
6.	8521 1	Understanding the factors affecting the NIR emission intensity and wavelength Structural and photophysical studies using ultrafast NIR spectroscopic techniques.	Prof.SatyenSaha/ Banaras Hindu University	Prof. Koichi Iwata Institute- Gakushuin University koichi.iwata@gakushuin.ac.jp Mobile No.- Telephone No.- 81359049385
7.	8522 9	Development of antiviral and antimicrobial textile based Personal Protective Equipment PPE using polymer nanocomposites with metal and metal oxide nanoparticles immobilized proteolytic enzymes	Dr.SornaGowriVijaya Kumar/ Advanced Materials And Processes Research Institute, Bhopal	Prof. Hideaki Morikawa Institute- Shinshu University Japan
8.	8520 0	Catalytic Strategies for Biomolecule Functionalization and Generation of Pseudo Natural Products	Dr.JaideepSaha/ Centre Of Biomedical Research, Lucknow	Dr. KounosukeOisaki Institute- National Institute Of Advanced Industrial Science And Technology Tsukuba
9.	8606 1	EPR and ENDOR studies on model complexes from metalloenzymes -understanding the activation	Dr.Prabhuodeyara M Gurubasavaraj/ Rani Channamma University, Belagavi	Dr. Masaki Horitani Institute- Saga University Saga

		mechanism		
10.	8528 6	Research on innovative spectral down converting nanomaterials for photovoltaic and photoelectric applications	Prof.ParasharamMarutiShirange/ IIT Indore	Prof. Atsushi Ogura Institute- Meiji University
11.	8509 5	Implementation of Japanese early-warning criteria Soil Water Index SWI for debris flows and slope failures into territorial early warning systems in India for landslide disaster mitigation	Dr.Srikrishnan Siva Subramanian/ IIT Roorkee	Prof. Tatsuya Ishikawa Hokkaido University
12.	8529 5	Systemic delivery of senescence associated miRNA-3140 in pleural mesothelioma tumor by a multifunctional cationic nanocarrier	Dr. Anupama Mittal / Birla Institute Of Technology And Science, Pilani	Prof. Hidetoshi Tahara Hiroshima University
13.	8525 9	Analysis of Fluid Structure Interaction on Subject Specific Ureteral Models by Using Geometrical Big Data and its Application to Medical Treatments	Dr.Mohammad Zuber/ Manipal Institute Of Technology, Manipal	Dr. Masaaki Tamagawa Kyushu Institute of Technology

14.	8520 6	Development and application of machine learning methods to understand polyoxometalates and metalloprotein reactivities	Prof. Debashree Ghosh/ Indian Association For The Cultivation Of Science, Kolkata	Prof. Takeshi Yanai Nagoya University
15.	8493 9	Behavior of SHCC Elements under Shear Loading	Dr. Shamsheer Bahadur Singh/ Birla Institute Of Technology And Science, Pilani	Dr. Toshiyuki Kanakubo University of Tsukuba

List of Selected Joint Research Workshops: -

<u>S.No.</u>	<u>TPN No.</u>	<u>Project Title</u>	<u>Indian PI/Institute</u>	<u>Japanese PI/Institute</u>
1.	85253	Frontiers in Analytical and Applied Pyrolysis for Energy and Environment FAAPEE-2023	Dr. R VINU, IIT, Madras	Dr. Shogo Kumagai Institute- Tohoku University
2.	85312	The Science and Technology of Light Metals with emphasis on Titanium Alloys	Prof. Satyam Suwas, IISC, Bangaluru	Prof. Takanori Kiguchi Institute- Kumamoto University Address- Institute of Light Metals