

India-Austria Joint Call for Proposals 2021 Jointly Selected Proposals

The Department of Science and Technology (DST), Government of India and Austrian Federal Ministry of Education, Science and Research has announced a joint call for proposals in all scientific disciplines within the thematic areas of science and technology which was closed on November 2021.

Based on scientific merit, complementarities of the project objectives, scientific strengths of the project coordinators, national priorities and availability of budget, the Department of Science and Technology (DST), Government of India and Austrian Federal Ministry of Education, Science and Research have jointly decided to support following 15 project proposals. Project coordinators shall be informed separately to complete administrative formalities for release of grant:

Project Title	Principle Investigator / Organisation / Institute in Austria	Principle Investigator / Organisation / Institute in India
1	Investigations on High-Tc Superconducting single crystals Under Uniaxial Pressure. Prof. Neven BARIŠIĆ Vienna University of Technology, TUW Institute of Solid State Physics	Dr. Suja Elizabeth SAJI Indian Institute of Science, IISc Department of Physics, Bangalore;
2	Machine Learning-based Condition Monitoring at Constrained Edge Devices Dr. Maximilian GOETZINGER Vienna University of Technology, TUW Institute of Computer Technology	Prof. Sudip MISRA Indian Institute of Technology Kharagpur Dept. of Computer Science and Engineering Kharagpur
3	Roadmap to flat holography: field theory candidates Daniel GRUMILLER Vienna University of Technology, TUW Fakultät für Physik	Dr. Rudranil BASU BITS Pilani, KK Birla Goa Campus Department of Physics
4	Developing a Wetland – Photobioreactor – Microbial Fuel Cell system for Household Wastewater Treatment Prof. Gunter LANGERGRABER University of Natural Resources and Life Sciences BOKU Department für Wasser, Atmosphäre und Umwelt	Dr. Srikanth MUTNURI BIRLA Institute of Technology and Science BITS Pilani, KK Birla Goa Campus Department of Biological Sciences

5	Terrestrial network offloading for enhancement of vehicular communication through integration of microwave with optical wireless communication	Dr. Erich LEITGEB Graz University of Technology Institute of Microwave and Photonic Engineering	Dr. Brijesh KUMBHANI Indian Institute of Technology, Ropar Department of Electrical Engineering
6	Miniaturized Electrochemical Devices for Insulin Detection with Molecularly Imprinted Nanoparticles	Prof. Peter LIEBERZEIT University of Vienna Faculty for Chemistry Department of Physical Chemistry	Dr. Sanket GOEL BIRLA Institute of Technology and Science BITS, Pilani, Hyderabad Campus Department of Electrical and Electronics Engineering
7	Configuration and testing of smart occupant-centric thermal and indoor air quality controls in buildings	Dr. Ardeshir MAHDAVI Vienna University of Technology, TUW Institut für Architekturwissenschaften	Dr. Prashant ANAND Indian Institute of Technology Kharagpur Faculty of Engineering and Architecture
8	Modeling the effect of top predators and habitat on the distribution of mesocarnivores in large-carnivore landscapes of India and central Europe	Prof. Brady MATTSSON University of Natural Resources and Life Sciences BOKU Institute of Wildlife Biology and Game Management, University of Natural Resources and Life Sciences	Dr. Tharmalingam RAMESH Sálím Ali Centre for Ornithology and Natural History Department of Conservation Ecology; Division of Environmental Impact Assessment
9	Forest Characterization using LiDAR and Image Data	Dr. Norbert PFEIFER Vienna University of Technology Department of Geodesy and Geoinformation	Prof. Bharat LOHANI Indian Institute of Technology, Kanpur Department of Civil Engineering, Geoinformatics Laboratory
10	A Data-Driven Toolkit for Fostering a Modal Shift of Freight on Inland Waterways in India and Austria	Dr. Lisa-Maria PUTZ EGGER University of Applied Sciences Upper Austria School of Business & Management	Dr. Agnivesh PANI Indian Institute of Technology (BHU) Varanasi Department of Civil Engineering
11	Enhanced contrast functionality via nanoparticle-loaded capsules: investigating in-vivo cell tracking potential by multimodal imaging	Dr. Haider SAMI University of Vienna Department of Pharmaceutical Sciences, Faculty of Life Sciences	Prof. Sri SIVAKUMAR Indian Institute of Technology, Kanpur Department of Chemical Engineering
12	To study the drugs targeting cholesterol/lipogenic pathway as therapeutic intervention for Alzheimer's Disease	Dr. Simone SARTORI University of Innsbruck Department of Pharmacology and Toxicology Institute of Pharmacy	Prof. Bikash MEDHI Chandigarh University Postgraduate Institute of Medical Education and Research Chandigarh
13	Investigating Novel Lightweight Cryptographic Primitives in the Quantum Era from Design and Implementation Perspectives	Dr. Sujoy SINHA ROY Graz University Of Technology Institute for Applied Information Processing and Communications	Dr. Dhiman SAHA Indian Institute of Technology Bhilai Faculty of Electrical Engineering and Computer Science

14	Assessment of permeation and toxicity of nanoparticles on polysaccharide-based 3D bioprinted bilayered skin substitute	Dr. Karin STANA KLEINSCHEK Graz University of Technology Institute of Chemistry and Technology of Biobased Systems	Dr. Amit KUMAR JAISWAL Vellore Institute of Technology (VIT) Centre for Biomaterials, Cellular and Molecular Theranostics
15	Photodissociation cross-section measurements of nucleotides to understand the photostability of DNA and RNA building blocks	Prof. Roland WESTER University of Innsbruck Institut f. Ionenphysik und Angewandte Physik	Dr. S Sunil KUMAR Indian Institute of Science Education and Research IISER, Tirupati Center for Atomic, Molecular and Optical Sciences & Technologies
