

DST-DAAD Joint call 2016: Recommended projects

SL. NO.	Project Title	Indian PI	German PI
1.	Synthesis of Heterocyclic Compounds from 1,1-Diaminoazines: Theoretical and Experimental Studies	Prof. Prasad V. Bharatam Department of Medicinal Chemistry National Institute of Pharmaceutical Education and Research (NIPER) Sector 67, Mohali S.A.S. Nagar – 160 062, India	Prof. Dr. Uwe Beifuss University of Hohenheim, Institute of Chemistry, Garbenstr. 30 D-70599 Stuttgart
2.	Evolutionary change in the structure and composition of fossil shark, crocodile and mammal teeth in the past 50 million years	Dr. Rajeev Patnaik Department of Geology, Panjab University, Chandigarh-160014	Dr. Matthias Epple Professor Institute of Inorganic Chemistry, University of Duisburg-Essen D-45117 Essen, Germany
3.	Design, fabrication and characterization of high-NA lenses with dielectric Huygens metasurfaces	Dr. Balamati Choudhury Centre for Electromagnetics, CSIR National Aerospace Laboratories, Kodihalli, Bangalore, India, 560017	Dr. Isabelle Staude Functional Photonic Nanostructures Junior Research Group Institute of Applied Physics Abbe Center of Photonics Friedrich-Schiller-University Jena Albert-Einstein-Str. 6 07745 Jena Germany
4.	Gas Metal Arc Additive Manufacturing (GMAAM) - Simulation and Adaptive Control	Amitava De, Professor Mechanical Engineering Department, Indian Institute of Technology, Bombay, Powai, Mumbai – 400 076 INDIA	Sven-Frithjof Goecke, Professor Manufacturing Engineering, Mechanical Engineering in Department of Engineering, Technical University of Applied Sciences, Brandenburg an der Havel, D-14770, Germany
5.	Role of nano-structuring on the magneto-structural properties of magnetic thin films and multilayers for data storage application	Dr. Jyoti Ranjan Mohanty Asst. Professor, Dept. of physics IIT Hyderabad Kandi, Sangareddy, 502285, Telangana, India	Dr. Christian Günther Max-Born-Institute, Max-Born-Str. 2a 12489, Berlin, Germany
6.	Experimental and Theoretical Investigation of Rate Dependent Bifurcation in the Context of Thermoacoustic Instability	Prof. R. I. Sujith, Professor Department of Aerospace Eng. IIT Madras, Chennai 600036, India	Jürgen Kurths Professor Humboldt-University Berlin, Full Professor of Nonlinear Dynamics, Institute of Physics Newtonstr. 15, D-12489 Berlin Chair of Research Domain Transdisciplinary Concepts & Methods, Potsdam Institute for Climate Impact Research (PIK), Telegraphenberg A 31, D-14473 Potsdam

7.	Sustainable molecular architecture through C-H bond functionalization.	Dr. Baskar Sundararaju Department of Chemistry, Indian Institute of Technology, Kanpur, Uttar Pradesh	Dr. Ruping Landoltweg 152074 Aachen Germany.
8	Phosphorylation of the Inner Membrane Complex of the malaria parasite.	Pushkar Sharma, Staff Scientist VII National Institute of Immunology, New Delhi	Prof. Tim Wolf Gilberger, Dr. Bernhard Nocht Institute for Tropical Medicine & University of Hamburg
9.	Circulating levels of miRNA and secretory protein profile in diabetic cardiomyopathy: a clinical study on Indo-German cohorts	Dr. V. Aravindhan Assistant Professor Dept of Genetics, Dr ALM PG IBMS, University of Madras Taramani, Chennai-600113.	Prof. Dr. med. Norbert Frey, MD University of Kiel, Dept. of Cardiology, Schittenhelmstr. 12, D-24105 Kiel; Germany
10.	Simulation and Optimization of Complex Railway Junctions.	Narayan Rangaraj Indian Institute of Technology, Bombay Powai, Mumbai, India	Anita Schobel University of Gottingen Lotzestra_ e 16-18, 37083 Gottingen
11.	Material development for non-toxic, affordable thermoelectric waste heat recovery	Dr. Titas Dasgupta Assistant Professor Department of Metallurgical Engineering and Materials Science, Indian Institute of Technology Bombay, Powai, Mumbai, 400 076, India	Dr. Johannes De Boor Project leader, designated group leader Dept. of Thermoelectric Materials and Systems Institute of Materials Research German Aerospace Center (DLR) Linder Hoehe, Geb. 51, D-51147 Cologne, Germany
12.	Nanostructured oxide based materials for thermoelectric applications	Dr. Mayandi Jeyanthinath Assistant Professor Department of Materials Science, School of Chemistry, Madurai Kamaraj University, Madurai – 625021, Tamilnadu, India	Prof. Dr. Klaus Rademann Professor Department of Chemistry, Humboldt-Universität zu Berlin, Brook-Taylor-Strasse 2 12489 Berlin, Germany
13.	Strong light-matter interactions in active metallic nanoantennas	Dr. Parinda Vasa Associate Professor Department of Physics, IIT Bombay, Powai, Mumbai, India 400076	Prof. Christoph Lienau Full Professor (W3) Institute of Physics, Carl von Ossietzky Universität Oldenburg, Oldenburg, Germany 26129
14.	Early stage PEO coating growth study on different substrates – influence of intermetallic phases	Prof. Subodh Kumar Professor Materials Engineering Indian Institute of Science	Dr. Carsten Blawert wissenschaftlicher angestellter magnesium innovation center (magic) helmholtz zentrum geesthacht

15.	Multi-scale modelling of precipitation processes in Al-Cu and Al-Cu-Li alloys	M P Gururajan Assistant Professor Department of Metallurgical Engineering and Materials Science, Indian Institute of Technology Bombay, Powai, Mumbai 400076 INDIA	Ferdinand Haider, University professor Institut f. Physik, Universitat Augsburg, Universitätsstr. 1, D-86135 Augsburg, Germany
16.	Investigations on Structural and thermo-mechanical behavior of the Cu- based shape memory alloy bi-morphs prepared by laser assisted manufacturing	Dr.I.A.Palani, Associate Professor IIT Indore	Dr.Pauly Simon Institute for Complex material”IFW Poetfach Dresden
17.	Dynamic Response Analysis for the installation of offshore Hybrid Concrete Jacket based support structure for wind energy (DRACONJACK).	Dr. V. Sriram Assistant Professor Department of Ocean Engineering Indian Institute of Technology Madras Chennai 600 036, INDIA	Dr. Arndt Hildebrandt Junior Professor for Offshore Construction and Logistic. Leibniz Universität Hannover Franzius-Institute for Hydraulic, Estuarine and Coastal Engineering Nienburger Straße 4, 30167 Hannover, Germany
18.	Investigation of production parameters of supercapacitor electrodes and their influence on electrical performance	Dr. S.K.Tripathi, Assistant Professor (Senior Grade) Department of Physics, Jaypee University of Engineering and Technology, AB Road, Raghogarh-473226, Guna, Madhya Pradesh, India	Prof. Dr.-Ing. Julia Kowal, Chair of Electrical Energy Institute of Energy and Automation Technology, Einsteinufer 11, Sekr. EMH 2, 10587-Berlin, Germany
19.	Comparative transcriptomics of <i>Crocus sativus</i> corm in presence and absence of pathogenic <i>Fusarium oxysporum</i>	Dr. Jyoti Vakhlu Associate Professor, School of Biotechnology University of Jammu, Jammu-180006, J&K. India	Prof. Reinhold-Hurek Head, Department of Plant-microbe interaction, Fachbereich 2, Postfach 33 04 40, D-28334 Bremen, Germany
20.	Integration of mastitis resistant gene (lysozyme) into the beta-casein locus of buffalo/bovine genomes using CRISPR/Cas9	Dr. P. S. Yadav Principal Scientist and Head ICAR-Central Institute for Research on Buffaloes, Sirsa Road, Hisar, Haryana-125001, Indi	Prof. Dr.Heiner Niemann Director Institut für Nutztiergenetik (Institute of Farm Animal Genetics), Friedrich-Loeffler-Institut, Mariensee, 31535 Neustadt, Germany
21.	Epitaxial rare earth lanthanide lanthanide oxides on AIGAN	Prof. Apurba Laha IIT Bombay	Dr. H Jorgosten Director Lenbinzi university
22.	Advanced Photo-Plethysmography devices for Medical Diagnostics	Dr. Mohanasankar Associate Professor, Department of Electrical Engineering, IIT Madras.	Dr.-Ing. Marian Walter Chair for Medical Information Technology

23.	Leptons from heavy-flavour hadron decays in proton-proton collisions at the LHC	Ankhi Roy (Associate Professor) 302 A, School Building, Indian Institute of Technology (IIT) Indore, Khandwa Road, Simrol, Indore 453552, India	Ralf Averbeck (Senior Staff Scientist) GSI Helmholtzzentrum für Schwerionenforschung Planckstraße 1 64291 Darmstadt Germany
24.	Design of a Sciento-text Computational Framework for Retrieval and Contextual Recommendations of High Quality Scholarly Articles	DrVivek Kumar Singh Assistant Professor Department of Computer Science Banaras Hindu University Varanasi-221005	Dr Philipp Mayr Team Leader GESIS - Leibniz Institute for the Social Sciences, Department of Knowledge Technologies, UnterSachsenhausen 6-8, D-50667 Köln, Germany
25.	Influence of particle size on the <i>in vivo</i> and <i>in vitro</i> toxicity of metal oxides causing toxicity in a model zebrafish, in normal human bladder cells and bladder tumor cells.	Dr. V. Rajendran Centre for Nano Science and Technology, K. S. Rangasamy College of Technology, K S R Group of Institutions, KSR Kalvi Nagar, Tiruchengode, Namakkal (Dt.) Tamil Nadu, India Pin: 637 215	Prof. Dr. Wilhelm K.Aicher Laborleiter, KlinikfürUrologie ZentrumfürMedizinischeForschung Eberhard-KarlsUniversität Waldhörnlestr. 2272072 Tübingen, Germany
26.	Largescale text analytics to identify temporal and mediaspecific	Dr. Animesh Mukherjee, Assoc. Professor Dr. PawanGoyal, Asst. Professor	Dr. Timo Baumann PostDoctoral researcher Dr. Chris Biemann Asst. Professor
27.	Delivery of siRNA for masking resistance to chemotherapy in non-small cell lung cancer”	Prof. AmbikanandanMisra Professor of Pharmaceutical technology Faculty of Pharmacy, The Maharaja Sayajirao University of Baroda, Kalabhavan campus, Vadodara – 390 001, Gujarat, India	Prof. Paola Luciani Professor for Phospholipids in Drug Development Department of Pharmaceutical Technology, Institute of Pharmacy, Friedrich Schiller University of Jena, Lessingstraße 8, 07743 Jena, Germany
28.	Formation of room temperature ferrite thin films for the application of spintronic devices	Rajesh Kumar Assistant Professor Deptt. of Physics and Materials Science, Jaypee University of Information Technology, Waknaghat, Solan (H.P.)-173234, India	Joachim Wollschläger Professor Department ofPhysics, Universität Osnabrück Fachbereich Physik Barbarastr. 7 D-49069 Osnabrück Germany

29.	“Targeting Lysyl Oxidase-2 and miRNA for Effective Gene Therapy of Liver	Dr. Chandraiah Godugu Assistant Professor Room No. 83, Department of Regulatory Toxicology, National Institute of Pharmaceutical Education and Research (NIPER), Balanagar, Hyderabad, India-500037	Dr. rer. nat. Ralf Weiskirchen, University Professor Institut für Molekulare Pathobiochemie, Experimentelle Gentherapie und Klinische Chemie RWTH-University Hospital, Pauwelsstr. 30, Aachen, D- 52074, Germany
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The above proposals have been recommended by the Joint Committee in its meeting held on 23rd November 2016, based on the evaluation by the subject expert committees from both sides.

The Indian Project Investigators are requested to submit the enclosed check list(Annexure-I), bank details (Annexure-II) and Budgetary details as proposed in the project with sufficient justification for processing the individual cases for sanctioning the Projects from DST side. The documents submitted by post to the following address.

Dr. Chadaram Sivaji
Scientist – F
International Bilateral Cooperation Division
Department of Science & Technology
Ministry of Science and Technology
Government of India
Technology Bhavan, New Mahrauli Road
New Delhi – 110016
Email: sivaji@nic.in

Annexure-I

CHECKLIST

1. Title of the Project :
2. Initiating Institute of project :
3. Sponsoring Agency/Ministry :
4. Total cost of the project :

Nature and Quantum of foreign

Collaboration sought

- (i) Financial support: :
 - (ii) Equipment support :
 - (iii) Technical support :
 - (iv) Manpower training :
 - (v) Miscellaneous :
5. Is there any possibility, however :
remote of use of data, information

of result of the work which may

impinge on India's national security?

If yes, the nature of such a use may

be indicated. (In case the concerned

scrutinizing Ministry do not have clear

answer, the matter should be referred

to the DRDO and MHA for examination).

II. ORIGIN OF THE PROJECT AND ITS SPONSORS:

6. If the proposal is foreign-originated,
what is the background of the foreign

agency or organization which is sponsoring the project? Information available, if any on past collaboration by foreign agency with Indian Institution.

7. Are the foreign agency, organization, scientists concerned, known to have taken up any project of military significance in the past or are known to be associated with any military organization or project?

(if the above information is not known or if there is definite information that there is no such association, these should be clearly indicated).
8. Is the proposer (Indian) known to the foreign collaborator and his group for some time and has this emerged naturally from the research work done by the two sides?

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III. FUNDING OF THE PROJECT

9. Is the foreign source known to have funded research into sensitive and national security areas in its own country or in other countries?
10. Are there reasons to believe that the foreign source is a cover name for some other sponsor?

ADMINISTRATION AND CONTROL OF THE PROJECT

11. Give a list of the likely places of visit : within the country planned by the foreign collaborator. Also give a list of the institutions which the collaborator is likely to visit.

12. Will any sensitive source material be

referred to during the course of the research?

13. (I) Does the collaboration involve

- a) Transfer of biological material(s) :
- b) Use of radioactive materials :
- c) Use of environmentally or otherwise hazardous material(s) :
- d) Use of Genetically Modified Organisms :
- e) Field trials or testing :
- f) Ethical issues :
- g) Issues related to Intellectual Property Rights (IPR) :

14. If answer to any section of question 13 is yes, are the investigators/ proposers

aware of the relevant regulations and have

they agreed to abide by them?

15. Will the research be conducted in accordance not only with the country's

own ethical and environmental standards,

but with international standards as well?

Signature with date of the Principal Investigator

Signature with date and seal of Head of Department/ Institute

PROJECT SUMMARY

1. Project Title:
2. Total cost of the project (Indian side) (in Rs.):
3. Duration of the Project.
4. Project Investigators (PIs) and Co-Investigators:
 - 4.1 Indian PIs
 - 4.2 Foreign
5. Other Project participants:
 - 5.3 Indian
 - 5.2 Foreign
6. Implementing Agencies / Institutions:
 - 6.1 Indian
 - 6.2 Foreign
7. Sponsoring Agency / Department / Ministry
 - 7.3 Indian

-: 10 :-

7.2 Foreign

8. Administrative Ministry in Government of India:

9. Has the Project been cleared by Secretary of the Administrative/
Sponsoring Ministry/Department from security/sensitivity angle?: Yes/No

10. If answer to (9) above is 'No', then does the Administrative/
sponsoring Ministry/Department recommend the Project to
be considered by High Level Committee of Secretaries? Yes/No

Signature of the concerned Officer
in the Administrative/Sponsoring
Ministry/Department

International Cooperation Division

Department of Science & Technology

Bank details for transfer of DST fund electronically

Agency name as registered with DST CPMS	
Agency Code as per CPMS	
Account Holders name/ designation	
Name of Bank and address	
Saving Bank Account Number	
IFSC Code	
MICR Code	

-: 12 :-

I do hereby certify that the above mentioned account is an interest bearing account and I take all responsibility for declaring the interest so accrued on the released grant from DST in the SE/UC to be furnished to DST.

Signature of Finance Authority with seal

(Please note that Agency name and Account holders name should be identical.)