

**DEPARTMENT OF SCIENCE AND TECHNOLOGY,
GOVERNMENT OF INDIA
&
MINISTRY OF SCIENCE AND ICT,
REPUBLIC OF KOREA**

**2023 KOREA- INDIA JOINT PROGRAM OF COOPERATION
IN SCIENCE & TECHNOLOGY**

CALL FOR JOINT PROJECT PROPOSALS

Proposals to be submitted by 18:00 pm (local time) on May 31, 2023

1. Introduction

The Korea-India Joint Program of Cooperation in Science and Technology facilitates bilateral cooperation between scientists and researchers from the two countries by way of joint R&D projects and technical missions. The Department of Science and Technology (DST), Ministry of Science & Technology of Government of India and Ministry of Science and (MSIT) of the Republic of Korea are the key agencies dedicated to the implementation of the program in India and the Republic of Korea (South Korea). This Call for Proposals is to provide every duly applicants with the detailed information and procedures for the bilateral cooperation program.

2. Potential Areas of Cooperation

Department of Science & Technology (DST), Govt. of India and Ministry of Science and ICT (MSIT) of the Republic of Korea invite Indian and Korean scientists / researchers to submit proposals for joint research projects in the following areas.

- **Green Mobility,**
- **Robotics & Manufacturing**
- **Renewable Energy including Green Hydrogen**
- **Information & Communication Technology**
- **Material Science & Technology with special focus on Semiconductor and Display**
- **Quantum Technologies**

The intention of this Call is to fund up to 12 projects, with 2 projects for each area.

3. Eligibility

The Program is open to researchers, scientists, institutions located in India or the Republic of Korea that are engaged in advanced research in one or more of the subject areas listed above. DST and National Research Foundation of Korea (NRF, an affiliated organization of MSIT) will conduct parallel review of the applications respectively based on the agreed criteria.

Eligible India Applicants

Project proposal **must** include the name of one Principal Investigator (PI) and a Co-Principal Investigator (Co-PI) in India. The PI and Co-PI are responsible for submitting annual scientific and financial reports in order to ensure continued funding; each project will be funded for a period of three years barring failure to adequately report on or complete project activities. PI and Co-PI are also responsible for the technical and administrative coordination of their projects. PIs and other investigators should either be scientists, researchers or faculty members regularly employed by government-recognized universities, academic institutes, national research and development laboratories or institutes. Neither PI should be retired or planning to retire during the proposed period of the project. **Please note that on the Indian side applicant already implementing two projects funded by the International Division of DST is not eligible to submit the project against this call.**

Eligible Republic of Korea Applicants

Researchers affiliated with institutions or organizations defined in Article 2, Clause 3 of the National Research and Development Innovation Act in Korea.

4. Kind of support available for Joint Project:

Basically, each selected project will be funded for a period of **three years**. However, projects on both sides must pass the annual evaluation in each country for continuation of funding. DST would support expenditure on Indian side whereas MSIT would meet the expenditure of Korean side.

On the Korean side, MSIT's tentative funding amount for each project would be approximately 40,000,000 won per year.

To facilitate the objective of the Project, manpower cost (JRF / SRF / Project Associate / Research Associate), consumables, research expenses, contingency, project related visits of Indian and Korean researchers to the counterpart country may be supported. This funding will cover the following expenses in connection with a project:

- Support for research expenses: Expenditure by project team in their country would be borne by the respective country, i.e., DST would support expenditure on Indian side of the project whereas MSIT would meet the expenditure of Korean side. Participating Indian institutions are responsible for expenses regarding equipment.
- Support for Exchange visit component: The sending side will provide round-trip economy-class airfare to the relevant entry city of the host country as well as medical insurance. The receiving side will provide accommodation and living expenses, i.e., transportation including pick-up service to and from the airport, food, etc.
 - ☞ All expenditures must be agreed upon by both parties in the available budget. And since the budget regulations of the two sides are different, consultations must be made within their respective rules.
- Institutional Overhead: Institutional Overhead will be determined in accordance with specific R&D program regulation of Indian and Korean governments.
 - ☞ In the case of Korea, the project should be carried out in accordance with Korean regulations.

5. Proposal Submission

Korean and Indian applicants shall write a common application to be submitted to both DST and MSIT/NRF. The common application must be written in English.

Indian applicants for funding can download the proposal formats from websites www.dst.gov.in / www.onlinedst.gov.in and should submit completed application form and all relevant information through e-PMS portal of the DST. Proposals must be submitted to DST through the e-application system provided at www.onlinedst.gov.in by 31st May 2023. Indian Applicants are also requested to send **one hard copy** to DST to following address by 7th June 2023:

Rajiv Kumar
Scientist

International Cooperation`
Department of Science & Technology
New Mehrauli Road
New Delhi – 110 016

It should be ensured that application with identical title has been submitted by his / her Korean counterpart scientist with NRF by due date **(Indian side)**.

For Korean applicants, a separate application form written in Korean is also required. Please refer to 'call for proposals' posted on the MSIT/NRF website for instructions on completing the Korean-language proposal **(Korean side)**. The Korean corresponding applicants must submit the same research plan(English and Korean version) through Korea' national electronic submission system(<https://iris.go.kr>)

Project proposals **must** be submitted to both DST and MSIT/NRF by 6:00 pm local time (respective to each country) on May 31, 2023. Proposals submitted to only one organization (DST or MSIT/NRF) **WILL NOT BE CONSIDERED**.

6. Assessment of applications

All applications received by the notified deadline will undergo a peer review process and then be referred to an independent advisory panel for consideration and ranking. Applications must attain a positive rating to be considered eligible for funding. Joint selection of successful applications by DST and NRF will be discussed by the respective nodal agencies and informed by the rankings. Decisions made by the India-ROK Joint S&T Committee will be final. The following criteria will be taken into consideration for selection of proposals:

- The scientific merit of the collaborative project
- Scientific excellence of the project
- Synergy / Complementarity aspects
- Mutual advancement of research through the transfer of knowledge and expertise
- Ability of the teams to successfully complete the project
- Expected research outputs

☞ According to independent domestic regulations between Korea and India, the evaluation criteria may change slightly.

7. Time schedule

The time schedule of 2023 Joint research program is as follows:

- ***From 17th April to 31st May 2023, 18:00 (local time) : Announcement of the call and submission***
- ***By the June 2023 : Exchange the submission list***
- ***By the end of September 2023 : Evaluation***
- ***By the early October 2023 : Discussion/Final decision for selection***
- ***By the end of October 2023 : Contract/Financial support at each side***
- ***1st November 2023 : Commencement of the research projects***

8. Contact Information

DST(INDIA)	MSIT/NRF(KOREA)
<u>Rajiv Kumar</u> Scientist International Cooperation Department of Science & Technology New Mehrauli Road New Delhi – 110 016 E-mail: rajivarc@nic.in	<u>Mr. Taesung Lee</u> Researcher American & Asian Affairs Directorate for International Affairs National Research Foundation of Korea E-mail : taesunglee@nrf.re.kr

**APPLICATION FORM FOR 2023 JOINT PROGRAM OF
COOPERATION IN SCIENCE AND TECHNOLOGY**

A. PROJECT

1. Title of Project

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2. Specific research field

Field	Sub-field

※ please be sure to be specific.

3. Project Duration

/ / ~ / / (dd/mm/yyyy)(Years & Months)
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※ Project duration should be 3 years (i.e., 36 months) all together.

4. Summary of Project

Keywords			
Objectives			
Approach			
Expected Outcome			

※ Attention - font: Times New Roman, size: 11 points / Do not exceed space provided.

5. Personal Data

	INDIA	KOREA
Name of PI		
Organization		
Department		
Title		
Address of Institution		
Office phone #		
Cell phone #		
Fax #		
e-mail		
Date of Birth		
Name of Co-Investigator		
Organization		
Department		
Title		
Address of Institution		
Office phone #		
Cell phone #		
Fax #		
e-mail		

B. TECHNICAL INFORMATION

1.Objectives of Project (up to 200 words)

2.Brief introduction to the national and international backdrop to the proposed area of research (up to 200 words)

3. Technical description of the project including methodology

※ **Attention - font: Times New Roman, size: 11 points / Do not exceed space provided.**

4. Justification for collaboration (up to 100 words)

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5. Plan of work (*per annum*)

Timeline	Responsibilities of Indian team	Responsibilities of Korean team
1 st Year (yyyy)		
2 nd Year (yyyy)		
3 rd Year (yyyy)		

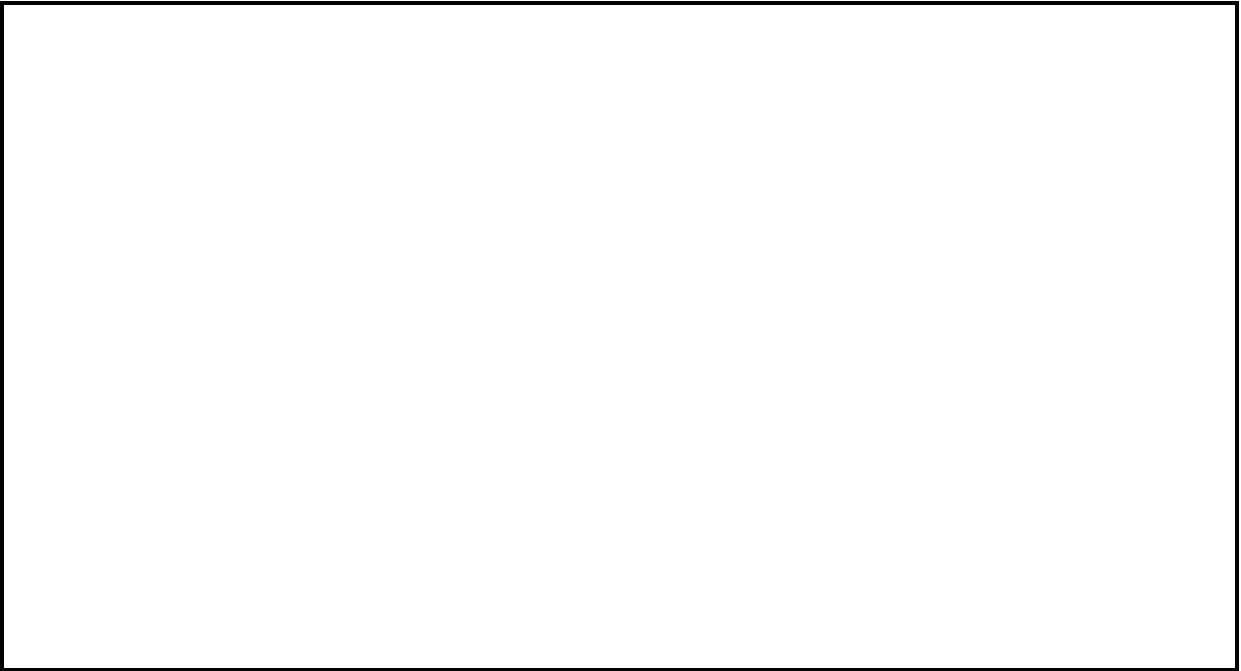
6. Facilities related to project activity available at the institutions where the project will be carried out:

At the Collaborating Indian Institutions	At the Collaborating Korean Institutions

7. Number of exchange visits required to achieve the project objectives (Year wise)

	INDIA TO S. KOREA		S. KOREA TO INDIA	
	Number of persons x visits	Duration for each person's visit	Number of persons x visits	Duration for each person's visit
1 st Year				
2 nd Year				
3 rd Year				

8. Added value to be generated / expected results of this cooperation (e.g. joint publications, patents, etc.). Are any of the expected results likely to have commercial value? How do you propose to share intellectual property rights? Are any of the expected results likely to have commercial value? (Up to 100 words)



9. Personal Data of Indian and Korean investigators to be attached.

※ Describe the expertise of the PI(s) in the proposed field of work by citing relevant publications. Do not exceed one pages A4 size for each PI (Font: Times New Roman, size: 11 points).

10. Research History of both PIs.

※ Describe major scientific publications, patent applications and ongoing / completed national / international projects during the last 5 years. Do not exceed one page A4 size for each PI (Font: Times New Roman, size: 11 points).

Indian PI**National Projects:**

S. No.	Project Title	Sponsoring Agency	Budget	Status

International Projects:

S. No.	Project Title	Name of the Collaborating Scientist & Institute	Sponsoring Agency	Budget	Status

Korean PI**National Projects:**

S. No.	Project Title	Sponsoring Agency	Budget	Status

International Projects:

S. No.	Project Title	Name of the Collaborating Scientist & Institute	Sponsoring Agency	Budget	Status

C. FINANCIAL INFORMATION

Budget plan (Project Cost)– Indian side

(All costs should be in Indian Rs. for projects submitted by Indian PIs to DST)

(Rs.)

	1 st Financial Year	2 nd Financial year	3 rd Financial Year
Consumables			
Manpower			
Contingency			
Exchange Visits			
Indian Scientists to Korea			
Korean Scientists to India			
Total			

- ❖ Please quantified list out consumable items
- ❖ Full justification should be given for each budget head
- ❖ Please note that failing to provide quantified list of consumables and full justification, the support for consumables would not be considered by the evaluation Committee.

Budget plan (Project Cost)–Korean side

(KRW)

		1 st Financial Year	2 nd Financial year	3 rd Financial Year
Direct Costs	Internal Labor			
	External Labor			
	Research Equipment and Materials			
	Research Activity			
	Incentives			
Indirect Costs				
Total				

- Research Equipment and Materials can include Equipment, Materials & Commodities, Costs for Pilot Products.
- Research Activity can include Miscellaneous Expenses, Participant Support.

A. Signatures of the Principal Investigators & Institutions

► Indian PI

Name _____ Signature _____ Date _____

► Korean PI

Name _____ Signature _____ Date _____

B. Declaration from the Heads of the Collaborating Institutions

It is certified that

- i) the Institutions agree to participate in this Joint Research Project;
- ii) the Institutions shall provide necessary facilities for implementing the Joint Research Project;
- iii) the Institutions assume financial & other management responsibilities for the duration of the project to be carried out at their institution; and
- iv) the back-up funding for manpower, consumable etc. is available for this Joint Research Project.

Signature of the Heads of the Institutions

► Head of the Indian Institution

Name _____ Signature _____ Date _____

► Head of the Korean Institution

Name _____ Signature _____ Date _____