

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

**INDO-KOREA JOINT PROGRAMME OF COOPERATION
IN SCIENCE & TECHNOLOGY**

CALL FOR JOINT PROJECT PROPOSALS

Proposals to be submitted by 5:30 pm (local time) on February 28, 2011

1. Introduction

The Indo-Korean Joint Programme 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 National Research Foundation of Korea (NRF), Ministry of Education, Science and Technology (MEST), the Republic of Korea, are the key agencies dedicated to the implementation of the programme in India and the Republic of Korea (South Korea). This Call for Proposals is to provide for every duly applicants the detail information and procedure about the bilateral cooperation program.

2. Potential Areas for Cooperation

Department of Science & Technology (DST), Govt. of India and National Research Foundation of Korea (NRF), Republic of Korea invite Indian and Korean scientists / researchers to submit proposals for joint research projects in the following broad subject areas. Fusion between the two aforesaid areas is also suitable.

- **Transportation**
- **Robotics & Engineering Sciences**
- **Nutrition & Food Safety**
- **Renewable Energy**
- **Chemical & Biochemical Technologies**
- **Health & Medical Sciences**
- **Material Science & Technology**
- **Water Resources & Environment**
- **Information Technology**

3. Eligibility

The Programme is open to scientists, engineers, 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 NRF will conduct parallel review of the applications respectively based on the agreed criteria. TO BE CONSIDERED, project proposals **must** be submitted to both DST and NRF by 5:30 pm local time (respective to each country) on **February 28, 2011**. Proposals submitted to only one organization (DST or NRF) WILL NOT BE CONSIDERED.

Project proposal **must** include the name of one Principal Investigator (PI) and a Co-Principal Investigator (Co-PI) each in both India and the Republic of Korea. 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, or national research and development laboratories or institutes. Neither PI should be retired or planning to retire during the proposed period of the project.

4. Kind of support available for Joint Project:

Basically, each selected project will be funded for a period of three years. However, projects of both sides must pass the annual evaluation in each country for continuation of funding. To facilitate the objective of the Project, the manpower cost, consumables and minor equipments, research expenses, 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 NRF 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.
- **Institutional Overhead:** Institutional Overhead can be considered @ 10 % Research expenses and 5 % on exchange visit component.(Indian side), Institutional Overhead will be determined in accordance with specific R&D program regulation of Korean government.(Korean side)

5. Proposal Submission

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

Indian applicants for funding should submit completed application [form](#) and all relevant, clearly labelled attachments in a single email to the email address: rajivarc@nic.in to reach by 5:30 pm on 28th February 2011. An email acknowledging receipt of the application will be provided to the applicant in 3-5 working days. They are also requested to **send eight hard copies** to DST by 10th March 2011. 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)**.

Korean applicants must submit one original and ten copies of the project proposal to NRF by 5:30 pm on 28th February 2011. For Korean applicants, a separate application form written in Korean is also required. Please refer to 'call for proposals' for instructions on completing the Korean-language proposal.

(Korean side)

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 are 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 projects
- Mutual advancement of research through the transfer of knowledge and expertise
- Ability of the teams to successfully complete the project
- Expected research outputs

7. Contact Information

DST(INDIA)	MEST- NRF(KOREA)
<u>Rajiv Kumar</u> Scientist International Cooperation Department of Science & Technology New Mehrauli Road New Delhi – 110 0049 Tel +-11 -26862503; Fax: 26862412 E-mail: rajivarc@nic.in	<u>Ms. Yun Sook KIM (NRF)</u> Researcher Asia Programs Tel : +82-2-3460-5623 E-mail : kkimys@nrf.re.kr

**APPLICATION FORM FOR JOINT PROGRAMME OF
COOPERATION IN SCIENCE AND TECHNOLOGY**

A. PROJECT

1. Title of Project

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2. Specific research field

Field	Sub-field
Example) Environmental Technology	Example) Hydrogen energy utilization and savings

※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		

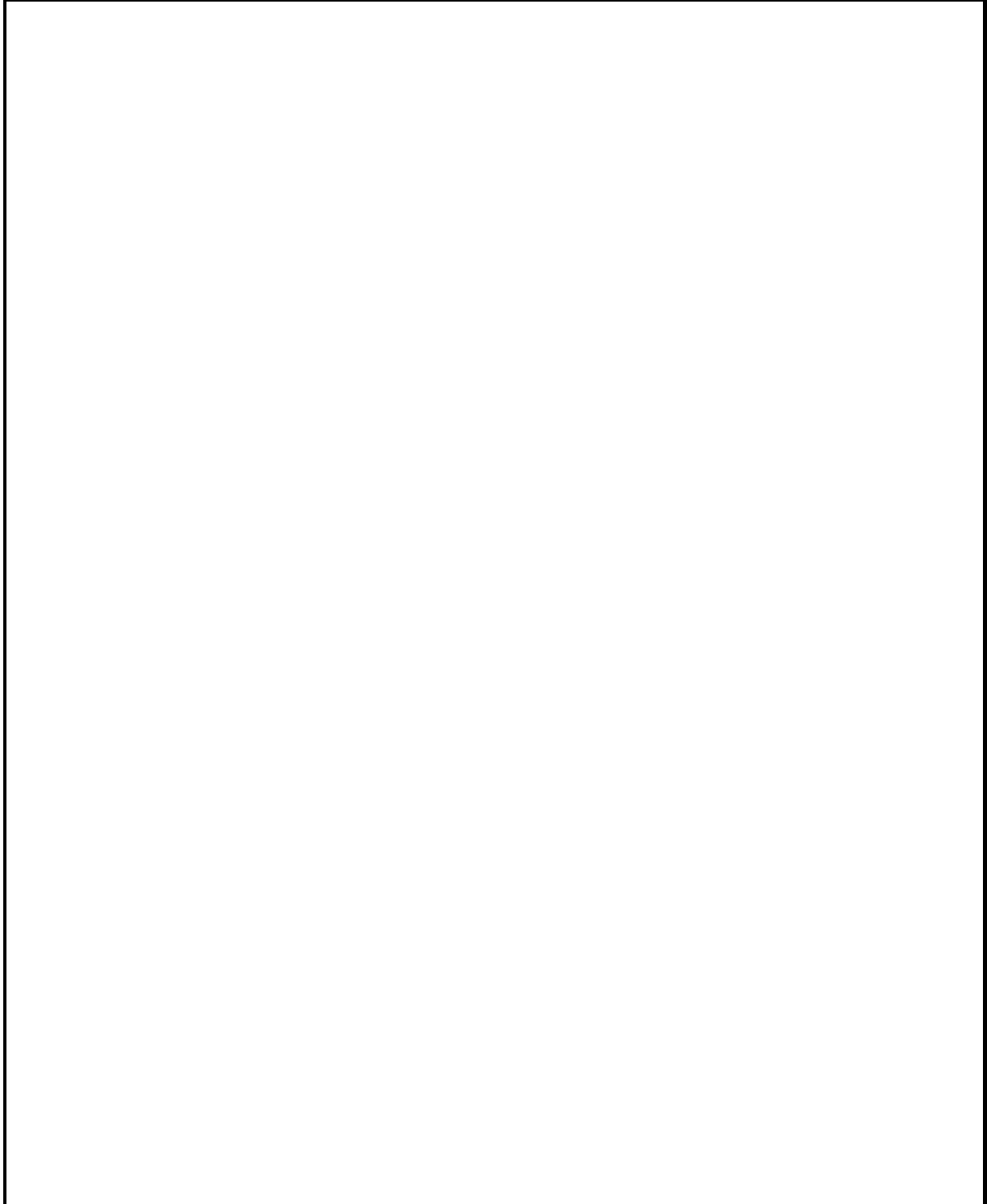
B. TECHNICAL INFORMATION

1. Objectives of Project (up to 200 words)

2. Justification for collaboration & brief introduction to the national and international backdrop to the proposed area of research (up to 400 words)

3. Technical description of the project including methodology

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

A large, empty rectangular box with a black border, intended for the technical description of the project. The box is currently blank.

4. 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)		

5. 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

6. Information of visiting persons for technical mission (*per annum*).

A. India to Korea

	Name	Organization	Duration	Purpose
1 st Year				
2 nd Year				
3 rd Year				

B. Korea to India

	Name	Organization	Duration	Purpose
1 st Year				
2 nd Year				
3 rd Year				

※ Attention: Please add lines if necessary.

7. Expected results of Cooperation (e.g. joint publications, patents etc.)

Are any of the expected results likely to have commercial value? (up to 100 words)

8. 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).

9. Research History of both PIs.

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

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
Minor Equipment			
Consumables			
Manpower			
Contingency			
Exchange Visits			
Indian Scientists to Korea			
Korean Scientists to India			
Total			

- ❖ Only minor equipment / instrument/ accessories, which are not available with the institute and essential to implement the project are permissible.
- ❖ Please indicate name of consumable its.

Budget plan (Project Cost) – Korean side

(KRW)

		1 st Financial Year	2 nd Financial year	3 rd Financial Year
Labor Costs	Internal Labor			
	External Labor			
Direct Costs	Research Equipment and Materials			
	Research Activity			
	Incentives			
Consigned Research				
Indirect Costs				
Exchange Visits				
Indian Scientists to Korea				
Korean Scientists to India				
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 _____

FORM FOR THE TECHNICAL MISSION

1. Project Title

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2. Project Code

3. Last Name

First and Middle Names

Title: (Professor/Dr./Mr./Ms./Mrs./Miss)

4. Sex

5. Date and Place of Birth

6. Family Information

- Father: (Last) _____ (First) _____ (Middle) _____,

- Mother: (Last) _____ (First) _____ (Middle) _____,

7. Passport No.

Date & Place of Issue

8. Designation / Position,

Address of the Organization

(including Phone / Fax / E-mail)

9. Area of Specialization

10. Duration of Visit

11. Date of Arrival in Host Country

Date of Departure

12. Expected Port of Landing

13. Institutions to be visited (no more than three)

14. Write a brief essay on the purpose of the visit and the expected outcomes. (please attach separate sheet if necessary.)

Signature of the Visiting Scientist

1. Date: _____

FINANCIAL SUPPORT FROM NRF
(ONLY FOR KOREAN APPLICANT)

A. Budget for Cooperative Research Project

Budgets may differ *per annum*, depending on the content of activities, but the annual budget for the Korean partner shall be approximately XXX million KRW, in principle. Due to budget limitations of this programme, amounts will be adjusted *per annum*.

B. Details of Support

This programme is designed to support cooperative research activities for tangible research outputs; travel expenses and/or seminar/symposium organization can be also supported, with the precondition that the main research infrastructure is already ensured by each research group.

C. Contract between Korean Applicants and NRF

Support will be given according to a contract for commissioned research entered between NRF and universities, research institutions, etc. (hereafter referred to as “institution”).

The contract for commissioned research will be renewed yearly for the duration of the research project. However, renewal of the contract is contingent on proper completion of all administrative procedures related to the project. Hence, the PI should consult with the department in charge at his/her institution for further details on project funding renewal.

D. Funded expenses

The principal cost category includes personnel and direct project costs, such as equipments and consumables. All budget items must conform to the “Specific R&D Program Regulation” of the Korean government.