



Department of Science & Technology
Government of India

For Use by DST

Area:.....
TPN. No.....
Date of Receipt



IC-IMPACTS
Centres of Excellence
Canada

COLLABORATIVE RESEARCH PROJECT PROPOSAL

APPLICATION FORMAT

FOR

DST - IC IMPACTS JOINT CALL FOR PROPOSAL (CFP-2022)

(Indian Applicants applying for *Carbon reduction or Water themes* as mentioned in the Call need to fill this form)

Project Summary

Project Title:	
Keywords:	
Proposed Duration of Project:	_____ year(s)
Indian Principal Investigator (PI):	
Indian PI Institution:	
Indian Co-Principal Investigator:	
Indian Co-PI Institution:	
Canadian Principal Investigator (PI) :	
Canadian PI University:	
Canadian Co-Principal Investigator (if any):	
Canadian Co-PI University:	
Total Requested Budget from DST (Indian Rs.):	
Total Requested Budget from IC-IMPACTS (CAD):	
Expected Cash Contribution by Partners:	/per year



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Expected In-kind Contribution by Partners:	/ per year
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1. Research Team

1.1. Principal Investigators

Indian Principal Investigator Information:			
Last Name:		First Name:	
Title:			
Department:			
Institution:			
Telephone:		Mobile:	
Email:		Fax:	
Street Address:			
City:		State:	
Postal Code:			
Date of Birth:			
Canadian Principal Investigator Information:			
Last Name:		First Name:	
Title:			
Department:			
Institution:			
Telephone:		Mobile:	
Email:		Fax:	
Street Address:			
City:		Province:	
Postal Code			

1.2. Co-Principal Investigators

Indian Co - Principal Investigator Information:			
Last Name:		First Name:	
Designation:			
Department:			
Institution:			
Telephone:		Mobile:	
Email:		Fax:	
Street Address:			
City:		State:	
Postal code:			



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Canadian Co - Principal Investigator Information:			
Last Name:		First Name:	
Designation:			
Department:			
Institution:			
Telephone:		Mobile:	
Email:		Fax:	
Street Address:			
City:		State:	
Postal Code:			

1.3. Other Project Team Members:

List the core members of the research team, their role and expertise. Distinguish between core project members for whom you would seek funding through this process and those who would be providing input, but would be supported through “leveraged” or “in-kind” support funded from other sources (if available). Indicate each team member’s anticipated overall role in the project.

1.3.a Proposed Core Research Team Members			
Name	Academic Institution or Organization	Project Role	Area of Expertise / Qualifications

1.3.b. Other Researchers and Partners (supported by other “leveraged” funding if available)			
Name	Academic Institution or Organization	Project Role	Area of Expertise / Qualifications



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1.4. Excellence of the Research Team:

Briefly describe how the scientific qualifications, breadth of experience and roles of each of the Principal Investigators, Co-Principal Investigators and other Project team members are best suited to achieve the outcomes of this project. Be sure to highlight their expertise in the proposed field of work.

1.5. Relevant Publications of Project Leaders:

Identify Three (3) Key Publications by **each** of the Canadian and Indian Principal Investigators and Co-Principal Investigators Relevant to the Proposed Project:

1.6. Ongoing / Completed Projects by Indian Principal Investigator:

List National and International Ongoing and Completed projects by the Indian Principal Investigator (DST information requirements)

National Projects: (add rows as necessary)				
S. No.	Project Title	Sponsoring Agency	Budget	Status

International Projects: (add rows as necessary)					
S. No.	Project Title	Name of the Collaborating Scientist and Institute	Sponsoring Agency	Budget	Status



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2. Collaboration Opportunity:

(maximum 500 words)

Is this a new opportunity for Canada-India Collaboration or is there a past record of collaboration in this project area? If so, describe past collaboration and results.

Describe necessity and significant of proposed research exchange between Canada and India (whether project could be done without the collaboration and if not complementary aspects the demonstrate benefit and impact of collaboration)

3. PROJET TECHNICAL INFORMATION

3.1 Research Project Overview

(maximum 1000 words)

Include a discussion of the following:

- discussion of origin of the proposal
- rational of the subject supported by cited literature,
- hypothesis and key questions
- current status of research and development in the subject
- relevance and expected outcome of the proposed study
- preliminary work done to date

3.2 Research Project Objectives

(maximum 3000 words)

Should be written in bulleted form, a short paragraph indicating the methods to be followed for achieving the objective and verifiable indicators of progress should follow each specific objective



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3.3 Key Milestones:

Project Element	Milestone To Be Achieved	Year 1	Year 2	Impact of Outcome
Add more lines if required				

3.4 Expected Results of the Collaboration:

(maximum 1000 words)
Describe expected outcomes (for example: joint publications, patents, etc.)
Describe if any of the expected results are likely to have commercial value?

3.5 Research Outcomes Deployment:

(maximum 1000 words)
Discuss the following issues:
(1) Specify the strategy for deployment or knowledge transfer of the research outcomes into a community context.
(2) Identify any anticipated challenges in the deployment or knowledge transfer or research outcomes into a community context and how you plan to mitigate these challenges if they arise.
(3) Address how you will identify opportunities for knowledge translation and end-user utilization in the development and application of the proposed innovations and technologies?

3.6 Unique and Innovative Aspects of the Proposed Research Project (Max 1000 words)



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3.7 Partner Involvement and Technology Utilization:

(maximum 1000 words)

Discuss the following issues:

- Describe the specific role of partners involved in the project and how they will contribute.
- Describe any opportunities for networking within, as well as external to, your proposed project to inform and increase the value and potential of your project and network to benefit other research projects of your institution, within your field, and within the IC-IMPACTS Network.

4. Project Relevance

Describe the relevance of the project to Communities in India and Canada and explain how findings of the project will be applied towards improving the lives of habitants in these partner communities. Identify any potential road-blocks to successful translation of findings from your project into these communities.

(maximum 500 words)

5. Highly Qualified Personnel Training Summary:

Summarize the quantity and identify the role of graduate students, other highly qualified personnel (HQP) or professional practitioner training in the proposed project and summarize the anticipated nature of their role in the research project.

HQP Training Summary					
Level of HQP	Number participating from Canada		Number participating from India		How involved in project
	Year 1	Year 2	Year 1	Year 2	
Total # HQP					

6. Highly Qualified Personnel Training – Justification for requested Manpower:

(maximum 1000 words)

Describe the unique potential training opportunities and also justify your request for manpower



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7. Experts in the Field:

List names, institutions and addresses of 3 experts in the field who would be in a position to evaluate your research proposal. Note: DST and IC-IMPACTS may solicit independent external reviews from individuals not identified on this list.

Full Name	Position	Institution	Area of Expertise	Email Address

8. Project Management:

Indicate how you will ensure effective project management, including: (maximum 500 words)

- (1) A clear plan and demonstrated capacity to manage the various elements of the project,
- (2) Ensuring that the project proceeds on time and on budget, and addresses key milestones;
- (3) Ensuring appropriate integration of project elements and avoiding silos among project participants;
- (4) Overseeing effective HQP development and maximization of training potential; and
- (5) Ensuring effective collaboration among international project team members and partners

9. Rationale for Requested Budget from DST and IC-IMPACTS and Funding from Other Sources

- (1) Use the budget application forms to specifically outline the project budget requested from DST and IC-IMPACTS and as provided from other funding sources.
- (2) **In writing below** address each of the following issues: (maximum 500 words)
 - a) Describe how any leveraged sources, funding or programs available to you will contribute to the budget and enhance the outcomes of this project or make it more achievable.
 - b) Describe budget provisions for knowledge translation and commercialization activities, including face-to-face meetings with end users and within partner communities during the life of the project.
 - c) Describe budget provisions for knowledge dissemination and technology commercialization at end-of-project.



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10. Additional Critical Considerations:

(maximum 500 words)

Identify any additional critical considerations you would like to bring to the attention of the review committees.

11. FINANCIAL AND ADMINISTRATIVE INFORMATION

Generally limited to the extent of expenditure on approved exchange visits viz. international airfare for Indian scientists and local hospitality to the Canadian scientists as per approved norms. Major items of expenditure should be met from internal resources of the Implementing Institution or any other sources.

11.1 Total cost of the project:

11.2 List of equipment and other facilities available in the participating Institutes for implementation of the project

(In case facilities of other institutes are utilized, a consent letter from these institute(s) may be enclosed)

11.3 Exchange visit which may be required to meet targets

	INDIA TO CANADA		CANADA 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				

11.4 Financial support required from DST:

Budget Head	1 st Financial Year	2 nd Financial year
Consumables and Accessories		
Manpower		
Contingency		



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Exchange Visits		
Total		

Note: The Project Leader is required to submit periodic reports and its continuation in the next year would depend upon its progress assessed by DST & IC IMPACTS. At the end of each financial year the Indian Project Leader is also required to submit the Utilization Certificates and Statement of Expenditure in prescribed to DST.

11.4 (a) Justification for consumables (Quantified list to be provided)

11.4 (b) List of facilities being extended by parent institution(s) for the project implementation.

Equipment available with the Institute/ Group/ Department/ Other Institutes for the project:

Equipment available with	Generic Name of Equipment	Model, Make & year of purchase	Remarks including accessories available and current usage of equipment
PI & his group			
PI's Department/Institute			
Other Inst In the region			

11.4 (c) OTHER SOURCES OF SUPPORT

i) Is this research currently being supported by other sources?

YES	NO
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If yes, please indicate the sources, amounts and periods of support.

Indian side:

Canadian side:

ii) Has this project been submitted to other agencies for financial support?

YES	NO
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If yes, please indicate which agencies, and when.



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Indian side:

Canadian side:

11.5 Designation and address of the Authorized official in Indian Institute/ University to receive the grant

11.6 Documents need to be added with the application form before final submission:

- A consent letter from the Canadian Principal Investigator agreeing with the objectives, work plan including projected visits from both sides may be enclosed.
- No objection / Forwarding letter of PI's Institute. (Annexure A attached for your reference)
- Bio-data of Project Coordinators (max: (2 pages) including date of superannuation / completion tenure, field of specialization, Gender, current research interests, significant accomplishment.

Note : i) The PI is required to submit periodic reports and its continuation in the second year would depend upon its progress assessed by DST. At the end of each financial year. The PI is also required to submit the Utilization Certificates and Statement of Expenditure in prescribed format

ii) Visit of one person is to be counted as one visit.

We hereby certify the statements above to be true and correct.

**Signature with Date
Indian Principal Investigator**

**Signature with Date
Indian Co-Principal Investigator**



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Annexure-A

CERTIFICATE OF HEAD OF THE INDIAN INSTITUTION

It is certified that

- 1) The institution agrees to participate in this joint research project;
- 2) In the event of the Indian Principal Investigator (PI) leaving the Institute due to retirement or otherwise, the Co-PI would become the PI and be responsible for completing the project and submitting the periodic progress report and financial statements;
- 3) The institution shall provide infrastructure & available facilities as mentioned above, for implementing the joint project;
- 4) The institution assumes to undertake financial & other management responsibilities for part of the project work to be carried out in this institution;
- 5) The breakup funding for manpower, consumables etc. is available to this project;
- 6) All necessary formalities as per our institution have been completed.

(Signature and seal of the Head of the institution)