FRIENDSHIP 2 Research Grant 2022

APPLICATION
for
Academic Collaboration (AC)

I. PI and Co-PI

1	Applicant (Principal Investigator, PI)	
1.1	Family Name	
	Given Name(s)	
1.2	Current Position at IITH	
	Title	
	Department	
1.3	Contact	e-mail: Mobile Phone:
1.4	Curriculum Vitae	Attachment 1
2	**Japanese Co-PI**	
2.1	Family Name	
	Given Name(s)	
2.2	Current Position	
	Title	
	Department/ School	
	University/Institute	
2.3	Contact	e-mail: Mobile Phone:
2.4	Agreement	☐ Original Letter ☐ e-mail Attached
3.	**Past Collaboration between PI and Co-PI**	
3.1	Academic Interaction (including interactions by research team members and long-term trainees)	
3.2	Collaborative Achievement (including co-authored papers, joint seminars, etc. if any)	
3.3	Others	

II. Research Description

4.1	Research Title (no subtitles)

4.2	Rationale and Objective of Proposed Research (200 words)

1) Necessity of Research

2) Objectives (Specify a <u>concrete research question</u> to be cleared through FRIENDSHIP 2 joint research with Japanese Co-PI.)

4.3	Novelty of Proposed Research

1) Advanced Research (List 5 academic papers and explain the novelty of this research within 100 words)

2) Patent Search (Search patents, registered/applied for, on the United States Patent and Trademark Office, US PTO: https://www.uspto.gov/patents/search, list related prior arts if any, and explain the novelty of this research within 100 words)

4.4	Research Method and Procedure (300 words)

4.5	Research Team Member (PI and Co-PI)

Attachment 2 (Excel Sheet)

Clarify the research tasks of each team member, including graduate students.

Note that the travel costs of students are not covered.

4.6	Time Schedule

Attachment 3 (Excel Sheet)

The schedule must be relevant to the research tasks of each team member given in the above and the budget.

Include 1) Joint seminars/Co-PI's lectures for IITH students, 2) Supervising session for co-

supervised master's students, 3) Oral presentation at international conferences in Japan, 4) Student exchange utilizing external funds such as Sakura Science Exchange Program (https://ssp.jst.go.jp/EN/). Note that the travel costs of students are not covered.	
3.7	**Expected Outputs**
1) Master's thesis/dissertation of member students by co-supervision with Co-PI 2) Study plan in Japan (for master's students) 3) Plan of cooperation with industries (such as internship, joint research) 4) Plan of a joint application for research grants after the FRIENDSHIP 2 grant 5) Others	
4.9	**Budget**
Attachment 4 (Excel Sheet)	

Attachment 1: Curriculum Vitae of Principal Investigator

A. Personal Data	
Name:	Gender: □ F □ M □ Other
Date of Birth (Place): yyyy/mm/dd ( )	

Academic Position at IITH:	Office Address:
Tel. Fax.	E-mail:

B. Academic Activity

B-1. Academic Qualification
Ph.D. (Year, Field, Institution/Country)   Master(Year, Field, Institution/Country)   Bachelor (Year, Field, Institution/Country)

B-2. Major Research Experience
(Year, Field, Institution/Country)

B-3. Experience of Activities in Japan
(e.g., Visiting researchers, conference attendance, etc.)

B-4. Major Research Achievements (recent five years)
1) Academic Journal Paper (up to 10) (Authors, year, "title," *journal*, pp.) 2) Book (Authors, year, *title,* publisher, country of publication)

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1.3	Contact	e-mail: Mobile Phone:
1.4	Curriculum Vitae	Attachment 1
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2.1	Family Name	
	Given Name(s)	
2.2	Current Position	
	Title	
	Department/ School	
	University/Institute	
2.3	Contact	e-mail: Mobile Phone:
2.4	Agreement	☐ Original Letter ☐ e-mail Attached
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3.2	Collaborative Achievement (including co-authored papers, joint seminars, etc. if any)	
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1) Necessity of Research 2) Objectives (Specify a <u>concrete research question</u> to be cleared through FRIENDSHIP 2 joint research with Japanese Co-PI.)	

4.3	Novelty of Proposed Research
1) Advanced Research (List 5 academic papers and explain the novelty of this research within 100 words) 2) Patent Search (Search patents, registered/applied for, on the United States Patent and Trademark Office, US PTO: https://www.uspto.gov/patents/search, list related prior arts if any, and explain the novelty of this research within 100 words)	

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4.5	Research Team Member (PI and Co-PI)
Attachment 2 (Excel Sheet) Clarify the research tasks of each team member, including graduate students. Note that the travel costs of students are not covered.	

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4) Plan of a joint application for research grants after the FRIENDSHIP 2 grant

5) Others

4.9	**Budget**

Attachment 4 (Excel Sheet)

Attachment 1: Curriculum Vitae of Principal Investigator

A. Personal Data	
Name:	Gender: □ F □ M □ Other
Date of Birth (Place): yyyy/mm/dd (　　)	
Academic Position at IITH:	Office Address:
Tel.　　　　　　Fax.	E-mail:

B. Academic Activity
B-1. Academic Qualification
Ph.D. (Year, Field, Institution/Country) Master(Year, Field, Institution/Country) Bachelor (Year, Field, Institution/Country)
B-2. Major Research Experience
(Year, Field, Institution/Country)
B-3. Experience of Activities in Japan
(e.g., Visiting researchers, conference attendance, etc.)
B-4. Major Research Achievements (recent five years)
1) Academic Journal Paper (up to 10) (Authors, year, "title," *journal*, pp.) 2) Book (Authors, year, *title,* publisher, country of publication)

Proposed Research Title:

List of Research Team Member

PI Team

Name	Status	Academic Title	Major Responsibility*
Dr.	PI	Professor Dep. of	Overall responsibility for the project implementation
	(Sub-PI)		
	Researcher		
	Research Assistant	Master's Student/Current Semester	(Research subtopic)
	Research Assistant	Doctoral Student/Current Semester	(Research subtopic)

Co-PI Team

Name	Status	Affiliation	Major Responsibility
Dr.	Co-PI	(position) (Dep/School/University)	Collaboration with PI/Co-supervising students
	Co-researcher		

Proposed Research Title:

Time Schedule

Note: Activities must be consistent with research tasks and budget.

Activity	Person in Charge	2022
Subtopic 1:		
1-1 Example	Dr.	
1-2 Example	Dr.	
Subtopic 2:		
2-1		
2-2		
Subtopic 3:		
3-1		
3-2		
Visits by Japanese Researcher (Not applicable)		
(Research/Lecture/Co-supervision)	(Researcher/Duration)	
Short-term Research at Co-PI's Lab in Japan (Tentative Schedule)		
(Purpose)	(Participant/Duration)	
Joint Workshop/Seminar (Tentative)		
(Purpose)	(Place)	

Proposed Research Title:

Budget

Item	The intended purpose and relevance to the research topic or component	2022		
		Unit Price (Rs)	Quantity	Subtotal (Rs)
Research Equipment* (Up to 5 Lahk)				0
				0
				0
Registration Fee				0
(Name of conference in Japan)				0
Travel from India to Japan				0
Aifare				
Accomodation				
Allowances		130,000		0
Domestic travel in India				
Domestic travel in Japan				
Consumables				0
				0
				0
				0
				0
				0
				0
				0
				0
				0
				0
		Total (Rs)	0	