INDIAN INSTITUTE OF TECHNOLOGY ROPAR
TECHNOLOGY AND INNOVATION FOUNDATION (TIF)
AGRICULTURE AND WATER TECHNOLOGY DEVELOPMENT HUB (AWaDH)

<u>Call for Project Proposals</u>

IIT Ropar – Technology and Innovation Foundation (TIF) is a Section – 8 company founded to support the initiatives of Technology Innovation Hub – AWaDH (Agriculture and Water Technology Development Hub) at the Indian Institute of Technology Ropar in the framework of **National Mission on Interdisciplinary Cyber-Physical Systems (NM – ICPS)** by the **Department of Science and Technology, Government of India**.

The TIF supports the R&D, technology development, deployment and commercialization in the domain of Agriculture and Water. The TIF invites project proposals in the domains of **Cyber-Physical Systems (CPs) applied to agriculture and water sectors**. This opportunity is offered under the **Strategic Program for Research Innovation and Next-Gen Tech-Commercialisation (SPRINT)**, an initiative by IIT Ropar TIF (AWaDH) aimed at accelerating research and innovation growth.

TIF will provide support to technology projects (with TRL 4/4+) designed for a duration of **6 months**, with funding support of up to **25 lakhs to be utilised for technology upgradation, validation and technology commercialisation**. The primary focus of the projects should be on developing and deploying technology products and lead to the generation of Intellectual Property and publications.

We encourage applicants to submit innovative proposals that can significantly contribute to advancements in the fields of agriculture and water through the implementation of Cyber-Physical Systems.

IIT Ropar TIF AWaDH's Call for Proposal invites proposals from scientists/engineers/technologists/startups/MSMEs working in academic institutions/R&D institutions/laboratories having adequate infrastructure/ facilities to carry out Technology Development work/prototype building. Financial support will be provided for the indigenous development of innovative technologies in identified areas.

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IIT ROPAR R&D proposals in the following areas of **'Cyber Physical Systems for Agriculture and Water Technology'** for financial support. Following dedicated technology problem statements are mentioned, around which project proposal be submitted.

1. **Design of an Aerator for fisheries applications**

2. **Design of an IoT based hydroponic growing system with aerator/temperature/water Level monitor**

3. **Design of a refrigeration system for small farmers**

4. **Design of a smart Crop Sensor System for efficient application of fertilisers and maximising Absorption.**

Eligibility criteria
1. Proposals must be submitted by Scientists/Faculty/Engineers/Technologists working in Universities and other Academic institutions; R&D institutions/Laboratories having adequate infrastructure and facilities to carry out R&D work and startups/MSMEs/industries
2. The project proposed should be made for 6 months.
3. Endorsement from the Head of the Organisation will be required along with the certificate from the principal investigator (PI)

APPLICATION FORM LINK: https://bit.ly/AWaDH_SPRINT_Technology

POINTS TO BE KEPT IN MIND WHILE SUBMITTING PROJECTS PROPOSALS

1. Financial support (upto INR 25 lakhs for the project) is provided only for temporary staff salaries, equipment (if necessary, and not available with PI's Institute, and specific to project requirement), consumables and other miscellaneous items. No support is provided towards basic infrastructure, buildings and International travel.
2. The investigators/ R&D Group must have adequate experience and expertise in the relevant area of proposal. The proposals should be based on innovative technologies/ ideas.
3. Proposals should have specific, concrete, quantifiable objectives/deliverables.
4. The technology demonstration plan should be clearly spelled out with achievable milestones, timelines, justifiable budget requirement, and engagement with prospective technology transfer partners or technology transfer facilitating bodies.

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5. It is envisaged that the end product of development shall be transferred to industries/suitable stakeholders for technology implementation. Hence, project should be proposed with appropriate industry/suitable stakeholder participation, clearly stating the technical as well as financial terms of participation.
6. No financial support will be provided to industry. An endorsement letter from the participating industry/stakeholder with a detailed breakup of their contribution for the proposed project has to be submitted in case of collaboration project proposal.
7. The monthly deliverables should be clearly mentioned in the proposal in the form of a Gantt chart/ matrix.
8. The projects should be time-bound normally for duration of 6 months
9. Implementation of the projects will be monitored regularly through Progress Reports, Audited Financial Statements and Committee of Experts in Group review meetings and onsite review as well.

FORMAT FOR THE PROJECT PROPOSAL
Title
Aims and Objectives
Project Summary
Key words
Background
Novelty
Plan of work
Important Milestones
Projected deliverables
Target Beneficiary and Impact
Detailed Budget (with justification)
Endorsement Certificate from the Head of the Organisation
Certificate from the PI

For any queries related to this call, please feel free to write to

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Last Date and Time of Submission: 05-09-2023

.   **Annexure**

Format for the Project Proposal

Title
Aims and Objectives
Project Summary
Key words
Background
Novelty
Plan of work
Important Milestones
Projected deliverables (including the technical detail of the project)

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Target Beneficiary and Impact
Detailed Budget (with justification)
Endorsement Certificate from the Head of the Organisation (on the institute letter head)
Certificate from the PI (on the department Letter Head)