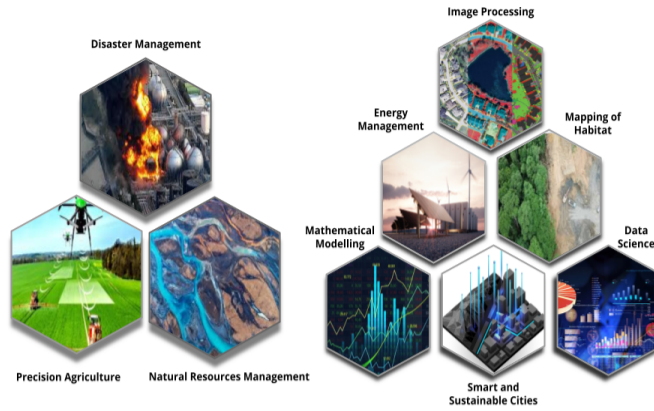


### About iNiF



To harness the potential of the next generation technologies and make India a leading player in Cyber-Physical Systems (CPS), the Union Cabinet approved the National Mission on Interdisciplinary Cyber-Physical Systems (NM-ICPS) to be implemented by DST. The Mission aims to create a strong foundation and a seamless ecosystem for CPS technologies by coordinating and integrating nationwide efforts encompassing knowledge generation, translation research, technology, product development, human resource development, innovation & commercialization standards, and international collaborations. **IIT Tirupati Navavishkar I-Hub Foundation (iNiF)**, a not-for-profit Section-8 company, has been set up to host the Technology Innovation Hub (TIH) in **Positioning and Precision Technology (PPT)**.

Positioning and Precision Technologies (PPTs) are indispensable tools for monitoring, integrating, and analyzing spatially and temporally distributed resources to aid in effective decision-making across multiple domains. The TIH on PPT at IIT Tirupati will provide a unique platform for researchers, industries, stakeholders and end-users across multiple disciplines. The TIH aims to become a top contributor to many Government of India initiatives such as Make in India, Atmanirbhar Bharat Abhiyaan and making India a self-reliant in PPT. The TIH on PPT will contribute in i) technology development; ii) applications; iii) human resource development; iv) start-ups; and v) international collaborations. The Hub will majorly focus on: 1) Developing atomic clocks for GPS and navigation systems and its applications; 2) Defence applications; 3) Precision agriculture; 4) Indoor positioning systems; 5) Disaster management; 6) Resource management; 7) Image processing; 8) Smart cities.

### About the call for proposals

IIT Tirupati Navavishkar I-Hub Foundation (iNiF), (hereinafter the Company) would like to financially support research proposals from faculty to support the development of technologies and products, in the broad area of Positioning and Precision Technologies (PPT), either at their own institutes or at IIT TIH via a TIH grant. Positioning and Precision Technologies (PPTs) are indispensable tools for monitoring, integrating, and analysing spatially and temporally distributed resources to aid in effective decision-making across multiple domains. These technologies include remote sensing (non invasive), Geographical Information Systems (GIS) and Global Positioning Systems (GPS).

### Focus areas of TIH-PPT

- Remote Sensing and Image Processing
- Quantum Technologies for Positioning
- Natural Resource Management
- Smart and Sustainable Cities
- Defence Applications
- Indoor Navigation/Mapping
- Imaging Spectroscopy
- Precision Agriculture
- Disaster Management
- Visualization Tools

### Eligibility Criteria

- Relevance of Proposal to PPT
- PI should be a permanent employee leading the project from AICTE approved or Centrally Funded Institutes or R & D Institutes
- No Objection Certificates
- R&D facility and necessary infrastructure to carry out the project proposal

### Proposal Preparation Guidelines

- Problem Statement and Solution Definition
- Technical Feasibility of the Solution.
- Timeline and Resource Requirements
- Competitive Advantage
- Impact Assessment
- Intellectual Property
- Commercialization
- Commitment of Industry Partner or User Organization (If any)

### Expected Deliverables

- Different approaches to solve real problems of industries
- Technology Development
- Intellectual Property Right
- Developing industry skills-set to solve industry problems
- Generation of skilled human resources under the PPT domain of the CPS
- Funding opportunities to create start-ups can be provided
- Incubation of a company
- Interact with industries working on the PPT domain

### Deadline for the submission of proposal

- Proposals are accepted on a rolling basis and are reviewed two times a year.
- March 30
  - September 30

**Proposals are invited with original ideas to solve socially relevant problems aligned with PPT**

**Duration of the proposal: 12 to 36 Months**

Proposal template can be downloaded from <https://tihppt.iitp.ac.in/iNiF-Projet-Proposal-Template.docx>

Proposal should be uploaded in the following URL:  
<https://forms.gle/Fh5uAJQoFp7NKErh8>

For More Details and FAQ:  
<https://tihppt.iitp.ac.in/faq.html>

**Contact:** IIT Tirupati Navavishkar I-Hub Foundation, Indian Institute of Technology Tirupati, Yerpedu - Venkatagiri Road, Yerpedu Post, Chittoor District, Andhra Pradesh - 517619

**Website:** <https://tihppt.iitp.ac.in>

**Email:** [tihppt@iitp.ac.in](mailto:tihppt@iitp.ac.in)

Note: iNiF reserves all rights to revise the eligibility criteria, reject any proposal without assigning reason at any time