

**GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF SCIENCE & TECHNOLOGY
NATIONAL GEOSPATIAL PROGRAMME (NGP)**

Call for proposal in Geospatial Technology Development

Introduction

The Department of Science & Technology under its National Geospatial Programme (*earlier* NRDMS) has been catalyzing various components of the National Geospatial Ecosystem viz. Geospatial Science and Technology, Policy, Solution, capacity building, entrepreneurship and International cooperation for sustainable socio-economic development at all levels of Governance.

With this vision in mind and to strengthen various domains of geospatial Technological capabilities of the country, this department invites proposals from geographically well distributed organizations for development of Geospatial technologies.

Focus Areas*

Financial support will be provided to selected organization focusing on geospatial technology development (including establishment of Project Monitoring Units -PMUs) in the sectors of Geospatial Data Capture / gathering, Data Management and Data Processing Technologies etc. The details are as follows (only indicative):

A. Geospatial Data Capture and Gathering Technologies

- Accuracy Standards for Digital Geospatial Data
- Spectral signature repository
- Integration of data from multiple GS sources
- High-Definition Maps, Imaging and Videography
- Hyperspectral multi-platform data capture system development
- Multi-sensor Vehicle-borne including Laser Mapping System
- Biometric based data capture.
- Robotics data acquisition systems

B. Geospatial Data Management Technologies

- Adoption of Improved Open Source Data Management Technologies
- Internet of Things (IoTs)
- Use of Artificial Intelligence, Machine Learning, Deep Learning
- Drone Mapping in Geospatial Technologies

C. Geospatial Data Processing Technologies

- Geospatial Big data analysis

- Enhancement in processing speed of different processes of data handling e.g. CyberGIS
- Cloud computing
- Geo-visualization through Virtual Reality Modelling
- Software Integrated in Hardware
- Real time data processing and feature extraction

**Focus areas are only indicative*

In order to supplement the above mentioned focus areas, NGP-DST intends to establish a set of electronic platforms (**each platform equipped with a Project Management Unit (PMU)**). These platforms aim at developing a Geospatial Knowledge Infrastructure (GKI) for R&D projects in the respective broad areas of R&D, coordinating seamless implementation of the projects from all the above priority areas for ensuring appropriate integration of their outputs/ results, improving effectiveness of the Geospatial Technology management, providing inputs for future development of the program, improving access to the spatial data and information acquired through the R&D projects and promoting creation, use, and exchange of relevant spatial information resources as well as results from different projects for their gainful utilisation in different spheres of Geospatial Technology applications, interoperable sharing of knowledge and information, and providing avenues for active learning and capacity development in geospatial technology based on practical requirements of the Geospatial Technology Education and Skill Development and creating a suitable enabling framework for supporting innovative Start-ups/ MSME sector.

Who can submit the proposal?

The proposal can be submitted by the faculty members, scientists, engineers, technologists in permanent positions working in UGC recognized universities, national institutions of research and research management etc. having requisite experience in the field of geospatial technology.

Last date for **ONLINE** receipt of proposals is 15th June, 2021.

Duration and Fund Support

The proposal may be supported preferably for 2 year upto maximum duration of 03 year.

How to submit the proposal?

The proposals should be submitted as a singly pdf document at <https://onlinedst.gov.in/> in proper format as provided at <https://onlinedst.gov.in/> and duly forwarded by Head of the Institution/ University.

Non-governmental organization (Deemed and private universities and research and development organization) should be registered at the ngodarpan.gov.in portal of the Government of India before submission of the proposal.

For any other query and submission of proposal please contact:

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NOTE: The e-version of the proposal duly endorsed from Head of the organisation should be submitted as a single pdf document under Geospatial Technology Development scheme of NGP Division (*erstwhile* NRDMS), at <https://onlinedst.gov.in/>.
