

ORGANISATION	National Institute of Urban Affairs (NIUA)
POSITION	Manager (Geo-spatial Technology)
PROJECT NAME	Digital India Land Records Modernization Programme
DUTY STATION	Department of Land Resources, Ministry of Rural Development, Nirman Bhawan, New Delhi
DURATION	12 months
NATURE OF ENGAGEMENT	Contractual, full-time

About the National Institute of Urban Affairs (NIUA)

Established in 1976, the National Institute of Urban Affairs (NIUA) is a premier institute of Ministry of Housing and Urban Affairs, Government of India, for research and capacity building for urban sector in India. NIUA's broad objective is to bridge the gap between research and practice on issues related to urbanisation. For more than 45 years now, NIUA has been the vanguard for contributing to and building the urban narrative for a fast-evolving urban India. The Institute has been actively working on bringing forth key areas of concern for urban India in order to build the discourse at various scales. It has utilised its competencies in research, knowledge management, policy advocacy and capacity building to address urban challenges and continuously strive to develop sustainable, inclusive and productive urban ecosystems in the country.

About the Digital India Land Records Modernization Programme

DILRMP is spearheaded by the Department of Land Resources (DoLR), Ministry of Rural Development and came into effect in April 2016. The programme aims to develop an Integrated Land Information Management System, and to establish apt systems and mechanisms to ensure real-time updation of land records on a continuous basis, so that the computerised information on land mirrors the ground/ physical reality at every point of time. To leverage technology for enhancing transparency, efficiency and accessibility in land administration, and to lay the foundation for inclusive growth and development, DoLR is establishing a National Project Management Unit (NPMU). The NPMU will ensure effective implementation, monitoring, and scalability of DILRMP, leveraging its successes and addressing challenges by March 2026.

Key Responsibility Areas

- Identify and define appropriate applications of the system and associated GIS products to meet programme objectives and stakeholder requirements.
- Utilise GIS software to create, update, and maintain maps based on collected survey data, ensuring accuracy and consistency in spatial representations.
- Plan and design analytic procedures and methodologies for performing GIS applications, optimising efficiency and effectiveness in data analysis and interpretation.
- Conduct field training sessions related to GIS mapping and survey techniques, and track project progress to ensure adherence to timelines and quality standards.
- Ensure precision and reliability in spatial data collection.

- Digitise and geo-reference cadastral maps using High-Resolution Satellite Imagery (HRSI) to enhance the accuracy and accessibility of land records.
- Integrate textual and spatial databases to facilitate comprehensive and interconnected data management and analysis.
- Create high-quality cartographic products for publication and presentation, adhering to cartographic principles and design standards.
- Conduct thorough data verification and quality control checks on maps, tables, and reports to ensure consistency, accuracy, and compliance with specifications.
- Supervise and ensure the proper use, care, and operation of GIS equipment.
- Manage GIS data effectively, including data storage, retrieval, manipulation, and analysis, utilizing image processing techniques and 3D mapping capabilities.
- Demonstrate working knowledge of GIS interoperability with various documents, spreadsheets, databases, and image formats to facilitate data exchange and integration.
- Support the implementation of the National Geospatial Policy and assist in framing standards for land parcel data management and dissemination.
- Respond to additional duties and responsibilities as assigned by senior officials of DoLR.

Work Experience Required

- At least 5 years of experience in managing and execution of GIS-related projects.
- Proficiency in utilising GIS software such as ArcGIS, QGIS and other relevant tools for spatial data processing, mapping and database management.

Educational Qualifications Required

- Bachelor's degree in Engineering/ Technology from a recognised University or Institute in a relevant field such as Civil Engineering, Computer Science, Geomatics Engineering, or related disciplines.
- GATE qualified and certification in GIS/ Data analysis related courses with knowledge of ArcGIS/ QGIS, and other software related to GIS data processing and management is desirable.

Remuneration

At par with the standards established by DoLR, commensurate with experience and skills. Proof of past remuneration (last received salary/ monthly contract payment) would be required.

Application Process

- Applications to be only submitted online through NIUA's portal.
- Only candidates whose applications are complete in all regard and adhere to the prescribed format will be considered.
- Only shortlisted candidates will be notified.

Last Date to Apply: Applications will be accepted until the position is filled.