

Sl. No.	Particulars	Details
1	Designation	Technical Specialist UAV
2	Number of Posts	01
3	Basic Salary	₹ 46,800/- Plus allowances as admissible
4	Place of Posting	Meghalaya State GIS and UAV Centre, Shillong
5	Type of Engagement	Contractual
6	Duration	1 Year (extendable based on performance and continuation of the project)
7	Educational Qualification & Experience	Educational Qualification: Post Graduate in Technology, UAV Remote Sensing/ Aviation or Aeronautical engineering from a recognized institution or related field. UAV/Drone Pilot License from any recognised institute is a must for applying this position. Experience: Minimum 03 years of experience in UAV/drone operations, aerial surveying, or related fields. • Proven experience in planning and executing UAV missions for mapping, inspection or monitoring. • Hands-on experience with flight planning software, GNSS systems, and data processing tools (e.g., Pix4D, DroneDeploy, Agisoft). • Familiarity with DGCA regulations, flight permissions and safety protocols with experience operating in regulated and high-risk environments. • Experience in team coordination and field operations management and leading field operations, coordinating multidisciplinary teams and managing end-to-end mission execution. • Hands-on expertise with multi-sensor UAV payloads (LiDAR, photogrammetry, RGB/multispectral) and integration with GNSS-based positioning systems for high-precision data acquisition. • Exposure to integrating UAV-derived data with simulation models, digital twin frameworks or AI-based analytics systems for engineering optimization and monitoring applications • Experience contributing to large-scale geospatial initiatives (>100 sq. km or equivalent system complexity), supporting planning, infrastructure mapping, or environmental monitoring. • Built data-driven digital replicas of physical systems by coupling geospatial data (LiDAR/photogrammetry) with engineering simulation outputs for infrastructure monitoring and optimization. • Designed workflows for closed-loop systems, where UAV-acquired data informs simulation updates and optimization strategies.

8	Key Responsibilities	• Mission Planning & Execution: Plan, coordinate and execute UAV flights for surveying, mapping, monitoring and data acquisition across various projects. • Data Acquisition & Processing: Ensure high-quality aerial data capture and oversee processing for applications such as Digital Twin development. • Project Implementation Support: Provide technical inputs and operational support for initiatives including Digital Twin, AgriStack, Explore Meghalaya 360 and other UAV-based applications. • Equipment Management & Maintenance: Maintain UAV platforms, sensors and payload systems to ensure optimal performance and compliance with safety standards. • Regulatory Compliance: Ensure adherence to DGCA guidelines, flight permissions and all regulatory requirements for UAV operations. • Integration with GIS & IT Systems: Collaborate with GIS and IT teams to integrate UAV data into centralized databases, dashboards and analytics platforms. • Quality Assurance & Standards: Establish and maintain data accuracy, resolution standards and operational best practices. • Training & Capacity Building: Support training programs for UAV pilots and technical staff contribute to skill development initiatives. • Innovation & Technology Adoption: Evaluate and implement new UAV technologies, sensors, and workflows to enhance efficiency and outcomes. • Reporting & Documentation: Prepare technical reports, mission logs, and documentation for project monitoring and decision-making. • Any other tasks assigned by the competent authority.
9	Age Limit	Up to 45 years as on the last date of application
10	Selection Process	1. Shortlisting 2. Interview

Sl. No.	Particulars	Details
1	Designation	Technical Specialist GIS
2	Number of Posts	01
3	Basic Salary	₹ 46,800/- Plus allowances as admissible
4	Place of Posting	State GIS and UAV Centre, Shillong, Meghalaya
5	Type of Engagement	Contractual
6	Duration	1 Year (extendable based on performance and continuation of the project)
7	Educational Qualification & Experience	Qualification: Post Graduate in Geoinformatics/ Remote Sensing/ Geography/ Geology/ Environmental Science/ Forestry or related field. M. Tech and knowledge on IT may be preferred. Minimum of 05 years of relevant post-qualification experience in the following areas: • Geospatial Analysis & Mapping: Use of GIS for spatial analysis, parcel mapping, cartography, and geodatabase management using software such as ArcGIS and QGIS. • Drone Photogrammetry & Image Processing: Processing of UAV data, orthomosaic generation, 3D modelling, DEM/DSM creation, and aerial image processing using tools such as Pix4Dmapper, Agisoft Metashape, etc. • LiDAR & Terrain Analysis: Processing of LiDAR point cloud data, terrain modelling, elevation extraction, and 3D visualization using tools such as Global Mapper, ERDAS IMAGINE, etc. • Cadastral Mapping & Land Records Integration: Digitization of cadastral maps, parcel boundary mapping, and integration of land records with GIS-based land information systems. • Field Survey & Ground Verification: GPS/GNSS-based field data collection, ground verification, and parcel boundary validation. • Spatial Database & Land Governance Support: Spatial database management, data validation, and application of geospatial technologies for land administration, planning, and property mapping.

8	Key Responsibilities	• Enabled Spatial Data Infrastructure: Lead the development and maintenance of a centralized Digital Twin platform integrating high-accuracy geospatial, cadastral, UAV, LiDAR, and IoT datasets with robust data governance, versioning and secure sharing protocols. • Advanced Geospatial Analytics & Decision Intelligence: Perform spatial analysis, terrain modeling, simulation and 3D visualization within the Digital Twin ecosystem to support urban planning, infrastructure management, land-use optimization and evidence-based policy decisions. • Drone, Photogrammetry & LiDAR Integration: Oversee UAV/drone and LiDAR data processing to generate orthomosaics, DEM/DSM, 3D city models and real-time terrain intelligence for monitoring, planning and infrastructure assessment. • Digital Land Information & Cadastral Systems: Develop integrated Digital Twin-based land information systems by digitizing, georeferencing and managing cadastral maps, parcel boundaries and land records for governance, dispute resolution and regulatory compliance. • Field Survey & Spatial Data Validation: Supervise GPS/GNSS-enabled field surveys, ground truthing and quality assurance processes to ensure high accuracy and real-time updating of Digital Twin datasets. • Any other tasks assigned by the competent authority.
9	Age Limit	Up to 45 years as on the last date of application
10	Selection Process	1. Shortlisting 2. Interview

Please find the link to apply for the above positions: <https://mbda.jotform.com/261791303165960>