

The logo for the Indian Institute for Human Settlements (iihs) is located in the top left corner. It consists of the lowercase letters "iihs" in a white, sans-serif font, with a small "TM" trademark symbol to the upper right of the "s".

**iihs**<sup>TM</sup>

INDIAN INSTITUTE FOR  
HUMAN SETTLEMENTS

**JOB DESCRIPTION**

# Associate – Geospatial Lab

## About Us

The Indian Institute for Human Settlements (IIHS) is a national education institution committed to the equitable, sustainable and efficient transformation of Indian settlements.

IIHS aims to establish an independently funded and managed national university for research and innovation focused on the challenges and opportunities of India's urban transition. The proposed IIHS University will host an integrated programme of quality campus-based education and research, training and lifelong learning for working professionals, distance and blended learning, as well as a whole array of practice and advisory services. The university will have a strong interdisciplinary orientation bringing together theory and praxis that is grounded in the South Asian context and also engages with and draws from knowledge across the globe.

For more information, please see <http://www.iihs.co.in>

## About Geospatial Lab

The Geospatial Lab is the centre for spatial research, consulting and capacity building activities at IIHS. It cuts across programmes and teams integrating spatial technology and methods such as GIS, remote sensing, spatial modeling and web services into practice and consulting services as well as inter-disciplinary research. Its location in the IIHS ecosystem makes the Lab uniquely placed to offer customised project design and delivery, on the one hand, and institutional support, capacity building, training and teaching to a diverse range of learners on the other. As it grows, the Lab plans to become a national hub for geo-spatial sciences and technology that combines technological innovation and process expertise with inter-disciplinary knowledge generation

## Job Description

The position shall be housed in the Geospatial lab at IIHS and support the ongoing research, and practice projects at the lab.

## Activities and Tasks

The responsibilities would include, but not be limited to, the following:

- Undertaking research and advanced geospatial analysis for policy making, decision support and its impact related to the field of climate change, disaster risk management, water supply and sanitation, natural resource management, urbanisation process, etc.;
- Leading and developing new methods for image classifications, analysis, accuracy assessments and related spatial analysis;
- Assisting in producing high quality maps and data visualisations;
- Assisting in creating and managing large spatial databases;
- Supporting data dissemination especially through web platforms;
- Supporting day-to-day operations of the lab, project management and client management, documentation and research writing;
- Teaching and developing training materials and exercises, course coordination of the teaching and capacity building programs;
- Demonstrating an ability to engage with and across multiple disciplines central to the IIHS and institutional building.

## Structure and Reporting

The Associate – Geospatial Lab will report to the Senior Associate – Geospatial Lab at IIHS and collaborate effectively with a diverse group of internal teams and external faculty/organisations, and students.

## Person Specification

Other qualifications required for this role, include:

- Masters in Geoinformatics or related disciplines with strong analytical skills with 2 years of experience in GIS domain;
- Solid working knowledge on the usage of GIS and CAD software (proprietary and Open Source) with expertise in handling various vector and raster datasets;
- Expertise in projections and coordinate systems, georeferencing, advanced image classification and segmentation techniques, urban land use change and modelling;
- Hands on experience in creating, managing and archiving geospatial databases, and quality control;
- Experience in programming (Python, etc.) and statistical packages (R);
- Proficient in using MS Office (Excel, Word, PowerPoint, etc.);
- Excellent map production, data visualisation skills and experience with graphical packages;
- Prior experience in an urban-like institution is an advantage;
- Taking initiatives and having the drive to take on tough challenges, enjoy travel, have good inter-personal communication skills, and be comfortable in working in highly inter-disciplinary teams;
- Critical thinking and problem-solving ability;
- Strong written and oral communication skills;
- Strong organisation skills including documentation and attention to detail;
- Ability to work flexible hours from time to time.

This offer is on an exclusive basis, which implies that other professional assignments (whether compensated or not) that bear a potential conflict of interest with IIHS cannot be undertaken.

The search will remain open until the position is filled.

## Location

This position is based in Bengaluru and may entail travel to other locations in India.

## Review and Assessment

The role and performance of the incumbent shall be subject to normal review and assessment systems at IIHS.

## Diversity Policy

IIHS is an equal opportunity employer that encourages women, people with disabilities and those from economically and socially excluded communities with the requisite skills and qualifications to apply for positions.

**Contact**

Please email an updated resume, along with a cover letter addressing how you meet the above requirements, to [hr@ihs.co.in](mailto:hr@ihs.co.in) (*Subject: Associate – Geo-spatial Lab*).



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