

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 registered trademark symbol (®) to the upper right. The logo is set against a dark red rectangular background.

INDIAN INSTITUTE FOR
HUMAN SETTLEMENTS

JOB DESCRIPTION

Senior Associate/Consultant -
Geospatial Lab (Geoinformatics
and Computer Science)

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 of eminence for research and innovation focused on the challenges and opportunities of India's urban transition. The proposed IIHS University will be an institution of eminence that 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 the 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 Senior Associate/ Consultant shall be housed in the Geospatial Lab at IIHS and support the ongoing research and practice projects at the lab, with specific focus on activities involving geoinformatics and/or computer science.

Activities and Tasks

Responsibilities would include, but not be limited to, the following:

- Developing methods and automated workflows for spatial analysis and remote sensing;
- Contributing to, and supervising, ongoing research, practice and capacity building projects;
- Contributing to the technical content of new research proposals and consultancy projects;
- Publishing in high quality scientific journals and disseminating results on other platforms;
- Building networks and partnerships at national and international levels;
- Supporting day-to-day operations of the lab, including project management;
- Guiding and mentoring junior team members;
- Teaching, developing training materials and exercises, course coordination of the teaching and capacity building programs;
- Providing support to other IIHS activities including academics, research, practice, training, operations and other activities;

- Participating in all activities of Institution-building at IIHS; carrying out tasks as assigned by IIHS; and travelling on IIHS work within and outside the country as needed.

Structure and Reporting

The Senior Associate/Consultant – Geospatial Lab will report to the Lead – Research and the Consultant - Practice at IIHS and will be required to collaborate effectively with a diverse group of internal teams and external individuals/organisations, and students.

Person Specification

Applicants for this role should have:

- A Master's degree in Geoinformatics/Computer Science or related disciplines with a minimum of 5 years of work experience;
- Experience in using one or more open-source geospatial applications and services (QGIS, SAGA, GRASS, PostGIS, Geoserver, SNAP, WhiteBox, etc.);
- Experience in using one or more open-sourced programming languages (Python, R, JavaScript, etc.); and spatial libraries (pyqgis, pyshp, GDAL, etc.);
- Experience in developing web-based GIS analytical platforms using open-source tools on the Cloud (TerriaJS, Openlayers, Leaflet, etc.);
- Experience in implementing spatial algorithms on cloud-platforms (Google Earth Engine, AWS etc.);
- Experience in handling and analysis of large scale Optical and Radar satellite data;
- Expertise in advanced statistical analysis / geostatistics is desirable;
- Familiarity with Hyperspectral data, machine Learning methods and APIs (TensorFlow, Scikit-learn, Torch, etc.) would be an added advantage;
- Prior work experience with urban data and urban focused institutions would be useful;
- Strong interpersonal skills with the ability to work in highly interdisciplinary teams;
- Strong written and oral communication skills;
- Openness to working flexible hours from time to time as needed.

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.

To apply

If you are interested to explore this opportunity with us, please fill the online application form by clicking [here](#). (You can also click on the “Apply Now” button at the end of the Job Description displayed on the website).

Contact

Please write to us at hr@ihs.co.in if you need any clarifications while filling the online application form.



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