

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 its upper right. The logo is set against a dark red rectangular background.

iihs®

INDIAN INSTITUTE FOR
HUMAN SETTLEMENTS

JOB DESCRIPTION

Building Simulation Expert – ASSURE
(Accelerating Sustainable and Super-Efficient
Real Estate)

About Us

The Indian Institute for Human Settlements (IIHS) is an interdisciplinary knowledge institution and distinct university, committed to the equitable, sustainable and efficient transformation of Indian settlements. It conducts an integrated programme of quality campus-based teaching and research, applied research/ practice-based work to deliver large-scale impact, training and lifelong learning for working professionals as well as blended learning. IIHS brings together theory and praxis around India-centric knowledge and applied research, while engaging with and drawing from knowledge across the globe

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

About the ASSURE (Accelerating Sustainable and Super-Efficient Real Estate) project

ASSURE is a joint initiative of the Indian Institute for Human Settlements, India's premier knowledge institution working on urban transformation, and global next-generational digital services and consulting major and sustainability leader Infosys. ASSURE aims to transform India's large, rapidly growing, and carbon and energy intensive real estate sector by promoting High Performance Buildings (HPBs) at scale.

In pursuit of its goal, ASSURE will, in the coming years, offer technical assistance to India's largest developers for lighthouse projects spanning 100 million sq. ft., skill/ upskill 12,000 individuals, support 30 curated innovators, deliver a performance measurement and verification platform that incentivises HPB adoption and financing, and engage with policymakers and financial decisionmakers to usher enabling policies and financing arrangements for HPBs. In lighthouse projects, ASSURE works closely with developer teams to set realistic performance goals, guide technology and design choices, assist with implementation and O&M, and navigate financial and procurement pathways—ensuring successful delivery and operation of HPBs.

Job Description

We are seeking a Building Simulation Expert with expertise in thermal, energy, daylighting and glare analysis using annual simulations. You will work on analysis and simulation for large commercial building projects, making or editing and using them for further simulations. You will have the opportunity to work with an expert consulting team, to attend project meetings, and learn how design consulting is done.

Activities and Tasks

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

- Conducting daylight penetration, glare, and daylight availability analysis using LightStanza;
- Performing facade heat gain analysis using IES VE and DesignBuilder and optimising shading strategies;
- Developing passive design strategies balancing daylighting and thermal comfort;
- Preparing simulation reports, presentations, and collaborating with architects and engineers;
- Presenting findings and recommendations to stakeholders;

- Providing support to other IIHS activities including academics, research, training, practice, operations and others;
- Participating in all activities of Institution-building at IIHS; carrying out tasks as assigned by IIHS; and travelling on IIHS work within or outside the country as and when needed.

Structure and Reporting

The building simulation expert will report to the Project Director – ASSURE at IIHS and will be required to collaborate effectively with a diverse group of internal teams and external individuals/ organisations.

Person Specification

The ideal candidate should have:

- A Master's degree with a focus on Building Energy Performance, Building Science, or similar, with significant coursework on building performance;
- Experience of working on building projects will be considered an advantage;
- Expertise in understanding daylighting sufficiency, glare, heat gain, and energy performance metrics;
- Expertise in LightStanza, IES VE or DesignBuilder;
- The ability to make and manipulate 3-D models in Sketchup, Rhino, or Revit (with Grasshopper) and to translate simulation results into actionable design strategies;
- An understanding of green building rating systems, and energy codes;
- Excellent report writing and graphic presentation skills;
- A high level of expertise with Excel, PowerPoint and Word;
- The ability to do scripting in python and run batch simulations and will be an added advantage;
- Strong team working ability with good communication skills.

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 in exploring 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@iihs.co.in if you need any clarifications while filling the online application form.

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