

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>

Job Description

The qualified candidate will directly contribute to the advancement of environmental, spatial and sensing technologies. S/he will be a part of the technology stream, involved in cutting edge work that will put IIHS on the global map. S/he will help in setting up the IoT (Internet of Things) laboratory at the city campus. Using the lab as an incubation space, the goal will be to establish the platforms and technology for enabling the control system for the city campus, in a manner that will facilitate smooth and easy scaling up for the Kengeri site.

Activities and Tasks

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

- Interfacing directly with the campus operation and research teams to capture the relevant operating parameters and environmental information, and creating a specification that reflects the spatial makeup of the use case and the environmental characteristics;
- Using this specification to benchmark the technologies in simulation and set up IoT systems for measurement and control of the operating parameters of the campus;
- Assessing and establishing a sensor base and communication protocols that will be used;
- Prototyping solutions, based on the sensors and communication protocols;
- Creating a mesh array of sensors, creating the control logic at the sensor level and also gathering data for all systems and utilities;
- Creating a data system, creating and configuring a platform for capturing the interplay of systems and building a control network to manage the systems, utilities and environmental parameters;
- Working in harmony with the environmental, GIS and other teams to build a robust, reliable and scalable set of measurement and control systems for the Kengeri campus;
- Setting up and implementing drone technology in the proposed IoT lab.

Person Specification

Skills required would include, but not be limited to:

- Machine Learning and Artificial Intelligence (AI);
- Design for Data;
- IP Networking;
- Hardware Interfacing;
- Information Security;
- Business Intelligence;

Applicants should have

- A Bachelor's degree in engineering, computer science, information systems or related fields;
- 2-5 years of experience in a related field or organisation;
- The ability to understand business requirements & translate them into practical designs and engineered platforms;
- Experience with environmental controls, testing on IoT platforms in IoT environments;
- An understanding of embedded development is a plus;
- Experience with lab setups or working with lab engineers to create needed setups;
- Strong skills with analytical software - both using and manipulating; statistics abilities;
- Must have experience working in a network technology role;
- Experience with networking technologies (e.g., TCP/IP layer 2/3, UDP, NAT, QoS, IPV4, IPV6, VLANs, routing protocols, etc.);
- Experience with network services such as DHCP, DNS, NTP, IPAM;
- Experience with protocol analysis, network analyzers, packet capture devices;
- Familiarity with multi-threaded or real time systems;
- Must be an independent self-starter, hands-on and willing to work independently on new technologies and systems;
- Strong interpersonal skills are essential for this position, along with demonstrated competency in developing effective solutions to diverse and complex business problems.

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



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