

AHRC Job Ad No 2024-2

14 Aug 2024

Position: Senior Research Scientist, IoT-ML-DL-Smart City-Robotics

Location: IIT Bhubaneswar, Odisha

Reports To: Centre-Director, AHRC

About AHRC

The AI and HPC Research Center, AHRC is an interdisciplinary and collaborative research center designed as a National Research Center and hosted at IIT Bhubaneswar. At AHRC, faculty members and researchers from multiple disciplines at IIT Bhubaneswar and other prominent academic/industry/govt. institutions around the globe work together to find solutions to real world problems in several areas through research, innovation and application of Artificial Intelligence and High Performance Computing. Researchers from the fields of engineering, computer science, medicine, agriculture, basic sciences, finance, archeology and other areas work together to find integrated and comprehensive hardware and software solutions to problems faced by industry and society in general. Our most pressing research and innovation focus is in the application of Artificial Intelligence in areas that directly benefits the society such as medicine, agriculture, environment, sustainable communities and assistive technology. Researchers from more than 30 reputed organizations in the country and more than 15 prestigious organizations from abroad are collaborating with AHRC as a part of our virtual global team.

Job Summary:

As a Senior Research Scientist, the individual will lead and conduct advanced research at the intersection of Artificial Intelligence (AI), Machine Learning (ML), and the Internet of Things (IoT), focusing on their integration with energy systems, Smart Grid technologies, Smart City and advanced Robotics applications. They will spearhead innovative projects, collaborate with multidisciplinary teams, and utilize advanced data analysis and modeling techniques to optimize systems for improved efficiency and sustainability. Their responsibilities include publishing research findings, securing funding through grant writing, and mentoring junior researchers. Engaging with stakeholders such as government agencies, industry partners, and academic institutions, they will drive the organization's leadership in the field and foster collaborative opportunities.

Salary & Compensation:

Salary: Rs. 10 - 13 lakhs per year, consolidated

Essential Qualifications:

- Master's degree in Electrical Engineering, Computer Engineering, or a closely related discipline from a prestigious national or international institution.
- Proven expertise in IoT, AI, ML, Smart Grids, applied Power Electronics, electronics circuit building for IoT and Robotics, PCB design, and prototyping.
- Proficiency in software development tools and programming languages like Python, MATLAB, C/C++, etc.
- Demonstrated record of publishing research in high-impact journals and conferences.
- Strong foundation in hardware and software modeling.
- Exceptional research proposal writing skills.
- Excellent communication abilities, both written and verbal

Job Responsibilities:

- Lead and execute innovative research programs in IoT, AI, and ML, particularly in their application to energy systems, environment, agriculture and robotics.
- Design, develop, test, and prototype advanced circuits and intelligent electronic systems.
- Utilize hardware and software modeling techniques to tackle complex challenges.
- Foster collaboration across multidisciplinary teams to effectively integrate AI and ML models into practical solutions in IoT and Robotics applications.
- Author and publish high-caliber research papers in top-tier journals and conferences.
- Secure research funding through the development of compelling proposals for national and international agencies.
- Provide mentorship and guidance to junior researchers and students in their research endeavors.

Ideal Candidate Attributes:

- Masters degree with at least six years of research experience in the relevant field.
- Experience leading research projects and managing research teams.
- Established network within the academic and research communities.
- Prior experience with industry collaboration and technology transfer.
- Exceptional research paper writing and proposal writing skills.

- Strong communication and interpersonal skills.
- Ability to thrive in a collaborative research environment.
- Proven publication record in relevant research areas.
- Excellent analytical and problem-solving abilities.
- Capacity to manage multiple projects and deadlines effectively.

How to Apply:

- Candidates who meet the eligibility criteria should apply by sending an email to: career.ahrc@iitbbs.ac.in.
- the email subject line should be “application for the position of Senior Research Scientist, IoT-ML-DL-Smart City-Robotics” at AHRC
- The body of the email should contain the name, current designation and contact phone number of the candidate
- the attachments should include pdf versions of the candidate’s resume, and a One page cover letter
- Shortlisted candidates will be informed for an interview, which may be conducted online or in-person depending on the situation.

Selection Procedure:

- Candidates will be shortlisted based on eligibility criteria, academic record, relevant experience, and overall fit with the position.
- Only shortlisted candidates will be contacted for an interview by the selection committee.
- *Meeting the criteria does not guarantee an interview call.*
- If no suitable candidate is found, the position will remain vacant, and a new advertisement may be issued at a later time.

Note: This is a contract position with a tenure of 1-2 years, and the Job definition/requirements will evolve over time as per AHRC requirements.