AHRC Job Ad No 2024-03

25 Oct 2024

Position: Principal Research Scientist, AI in Medicine and Finance, Speech for Assistive Technology and Disease Detection

Location: AHRC/SECS, IIT Bhubaneswar, Odisha,   **Reports To:** Centre-Director, AHRC

About AHRC

The AI and HPC Research Center, AHRC is a premier interdisciplinary and collaborative research center designed as a National Research Center and hosted at IIT Bhubaneswar. At AHRC, faculty members and researchers at IIT Bhubaneswar and other prominent academic/industry/govt. institutions around the globe collaborate to find solutions to real world problems using 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 develop integrated hardware and software solutions using artificial intelligence and machine learning to address critical needs of the society and industry. Our virtual global team includes members from more than 30 reputed organizations in the country and more than 15 prestigious organizations from abroad.

Job Summary: As a Principal Research Scientist, the individual will lead and conduct advanced research at the intersection of Artificial Intelligence (AI), Machine Learning (ML) and Speech, focusing on their application in the areas of medicine, finance and assistive technology. They will spearhead innovative research and prototyping projects, collaborate with multidisciplinary teams, and utilize advanced data analysis and ML/DL modeling techniques to develop software and hardware systems in these areas. Their responsibilities include publishing research findings, securing funding through grant writing, mentoring junior researchers, and more importantly, working with researchers and engineers to develop product prototypes and deploy in the field. 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. 12 - 16 lacs per year, consolidated

Required Qualifications:

-PhD degree in Electrical Engineering, Computer Science/Engineering, or a closely related discipline from a prestigious national or international institution.

-Seven plus years of relevant experience in industry/academia

-Proven expertise in AI, ML/DL, NLP, speech processing, and their application in medicine, assistive technology and finance, developing and deploying prototype applications in these areas.

-Proficiency in software development tools and programming languages like Python, MATLAB, C/C++, and ML/DL development environments such Tensor Flow, Keras, Chat GPT and others.

-Demonstrated record of publishing research in high-impact journals and conferences.

-Strong foundation in software modeling and development in a team environment, especially in an industry research lab.

-Exceptional research proposal writing skills.

-Excellent communication abilities, both written and verbal

Job Responsibilities:

-Lead, manage and execute innovative research programs in the above mentioned areas.

-Design, develop, test, and deploy prototype advanced software 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 the above areas.

-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.

-Co-guide PhD/MS students and mentor/guide junior researchers and students in their research endeavors and generate IP.

-Teach classes at AHRC or other schools as needed

-Any other administrative/operational tasks assigned from time to time

Ideal Candidate Attributes:

-Experience in leading research projects and managing research teams.

-Established network within the academic, industry and research communities.

-Prior experience with industry collaboration and technology transfer.

-Ability to excel in a collaborative research environment.

-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 Principal Research Scientist, AHRC Job Ad No 2024-03"

-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 0ne 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.