Postdoctoral Researchers – AHRC (AI & High-Performance Computing Research Centre), IIT Bhubaneswar

Position Overview

The AI & HPC Research Centre (AHRC) at IIT Bhubaneswar invites applications for Postdoctoral Researcher positions in Applications of AI and High-Performance Computing (HPC), in various fields and domains. The role is ideal for researchers passionate about cutting-edge AI/ML/DL/NLP algorithms, distributed computing, computer architecture, and applied research for real-world problems. The candidates may choose one or more from the following areas for their application, based on their experience.

Research Areas and Application Domains

- **AI in Medicine and Life Sciences**

- **AI in Agriculture and Environment**

- **AI in Smart Cities and Smart Grids**

- **AI and Robotics Systems**

- **AI in Railway and Transportation Applications**

- **AI and Computer Architecture/High-Performance Computing**

- **Applications of NLP and GenAI**

- **Quantum Computing & AI**

Key Responsibilities

- Conduct independent and collaborative research in AI, HPC, or related areas.

- Develop and optimize AI/ML/DL/NLP models using high-performance computing architectures.

- Lead or contribute to research publications in high-impact journals and conferences.

- Assist in proposal writing for research grants and collaborative projects.

- Engage in mentoring PhD/MS students and guiding research interns.

- Collaborate with industry and government stakeholders to translate research into applications.

Minimum Eligibility Criteria

- **PhD in** Computer Science, Mathematics, Electrical/ECE/Mechanical/Civil/Biomedical/Genetic/ Agricultural and other branches of Engineering, Science disciplines such Physics/Chemistry/ Biology/ Genetics/atmospheric and others.

- Strong research background with publications in reputed journals/conferences.

- Strong knowledge and programming experience in AI/ML/DL/NLP frameworks

- Proficiency in programming languages such as C and Python

- Experience in grant writing, collaborative research

- Working experience in industry and product/prototype development is preferred.

Duration & Benefits

- **Tenure:** Initially for 1 year, extendable up to 5 years based on annual performance review.

- **Salary:** Rs 50,00 – 90,000 including HRA

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 Post Doctoral Researchers", AHRC Job Ad No 2025-01"

- The body of the email should contain the name, current designation and contact phone number of the candidate, and the research area(s) of interest from the list above.

- The email must have the following attachments:

       i. Detailed CV including education, work experience, skills, publications and patents

       ii. One page summary of Ph.D. work

       iii. Summary of research you want to pursue at AHRC (maximum two pages)

       v. All relevant educational certificates & marksheets.

Selection Procedure:

Candidates will be shortlisted based on eligibility criteria, academic record, relevant experience, available positions at any given time, 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.