

AHRC Job Ad No 2024-05

Date: - 05/03/2025

Position: Project Engineer -Full Stack Software Developer (Frontend & Backend)

Location: IIT Bhubaneswar, Argul, Khordha, Odisha, India

Type: Fulltime

Qualifications: MCA, B.Tech and M.Tech in Comp Science/ECE

Experience: 2-6 Years

About Us

AHRC (AI and HPC Research Center), IIT, Bhubaneswar, is a fast-growing applied technology research center, dedicated to delivering innovative solutions based on the multi-disciplinary research activities.

We are looking for a talented and motivated Full Stack Software Developer to join our team. The ideal candidate will have strong technical skills across both frontend and backend development, particularly with Python, NoSQL databases, and modern JavaScript frameworks such as Next.js and React. This role requires a proactive mindset, excellent problem-solving abilities, and strong communication skills to collaborate effectively within a team.

Key Responsibilities:

- Develop, test, and maintain both frontend and backend components of mobile and web applications.
- Build responsive and dynamic web applications using **Next.js/React**.
- Design and implement backend services using **Python** and integrate with **NoSQL databases** (e.g., MongoDB, DynamoDB) and vector databases (e.g. ChromaDB).
- Write efficient and scalable **Unix shell scripts** for automation and server management tasks.
- Optimize applications for speed, scalability, and security.
- Collaborate with cross-functional teams to define, design, and ship new features.
- Debug and resolve performance issues, bottlenecks, and complex problems across both frontend and backend layers.
- Document software functionality, technical specifications, and processes.
- Work with stakeholders to ensure timely project delivery and effective communication.

Key Skills and Qualifications:

- **Strong proficiency in Python** for backend development (APIs, services, automation).
- **Strong experience with NoSQL databases** like MongoDB, Cassandra, or DynamoDB.

- Hands-on experience with **Next.js/React** for building interactive and responsive web applications.
- Proficient in **Unix/Linux shell scripting** for server-side operations and automation.
- **Strong understanding of website development** (HTML5, CSS3, JavaScript, RESTful services).
- Experience with version control systems, particularly **Git**.
- Knowledge of **containerization** (Docker) and cloud platforms (AWS, Azure, or Google Cloud) is a plus.
- Knowledge of **Generative AI** technologies, **Speech Technologies** are a plus.
- Ability to work with both frontend and backend architecture, making decisions that balance performance and user experience.
- **Excellent communication skills**, both verbal and written, with the ability to explain technical concepts to non-technical team members.
- Problem-solving mindset and a strong attention to detail.

Preferred Qualifications:

- **Experience in Machine Learning Model** development and deployment.
- Experience with **Agile/Scrum development methodologies**.
- Knowledge of **CI/CD pipelines** and automated testing frameworks.
- Familiarity with **RESTful APIs**.
- Experience with frontend performance optimization techniques.

What We Offer:

- Competitive salary and benefits.
- Opportunity to work on cutting-edge technology projects and work with brightest students and eminent professors from multiple faculties in IIT, Bhubaneswar.
- A collaborative and flexible work environment.
- Career growth opportunities and continuous learning.

How to Apply:

- Send your resume and portfolio/links to career.ahrc@iitbbs.ac.in with the subject line: "Project Engineer- Full Stack Developer Application – [Your Name]"
- The email subject line should be “application for the position of, ‘Project Engineer- Full Stack Developer’; AHRC Job Ad No 2024-05”
- The body of the email should contain the name, current designation and contact phone number of the candidate.