Job Title:

Postdoctoral Researcher, Biology (Project-based, funded)

Reports to:

Principal Investigator – Dr. Rama Akondy, Associate professor, Department of Biology

Location:

Ashoka University, Sonipat, Haryana (with limited flexibility for remote work for a brief period depending on project phase)

Experience (in years):

PhD completed; postdoctoral or equivalent research experience desirable but not mandatory

Nature of work:

Full-time, fixed-term (6 months); research-focused project at the intersection of artificial intelligence and biomedical data analysis, with potential applications in clinical laboratory settings

About Ashoka University:

Ashoka University -India's premier interdisciplinary teaching and research university. An institution that has become a beacon of academic excellence in less than 10 years since its inception. At Ashoka, we encourage you to embrace the new, push the boundaries for continuous learning, and adapt to a world of constant change Because we believe that each Ashokan is capable of becoming a thought leader.

As part of our thriving and committed workforce, you will:

Be Mission-Driven: Champion interdisciplinary learning, innovative pedagogy, and academic rigor to transform Indian higher education.

Think Strategically: Collaborate with visionary minds to shape the future of higher education through strategic planning and a forward-thinking approach.

Act Authentically: Embrace authenticity and integrity, fostering an inclusive and supportive environment where every voice is valued.

Take Accountability: Own your work and drive positive change, as an empowering individual seeking to make a meaningful contribution.

Build Collaboration: Experience the power of teamwork and diverse perspectives, working collectively towards our shared goals.

Deliver Excellence: Strive for excellence in all aspects, upholding the highest standards of academic excellence, student support, and professional development opportunities.

At Ashoka University, we are on a mission to redefine higher education and create a remarkable space where innovation and collaboration thrive. As a **pioneering force in interdisciplinary learning**, we **continually grow and adapt** to stay at the forefront of educational excellence with emphasis on inclusivity and equal opportunity. Our philosophy revolves around **care, well-being, and connection**, which are deeply embedded in everything we do.

When you join our community, you become part of an extraordinary journey in which you can unleash your potential and make a meaningful impact. Where education empowers, where innovation thrives, and where excellence and humility coexist. We truly believe the world will enrich itself when there is progress with purpose.

About the department of biology:

The Department of Biology at Ashoka University is committed to high-impact interdisciplinary research across molecular biology, immunology, ecology, and synthetic biology. Our faculty focus on both fundamental and translational questions in life sciences. The department actively collaborates with clinicians, data scientists, and engineers, and encourages cross-cutting approaches to address pressing scientific and societal challenges.

Role and Responsibilities:

The selected candidate will work on a project titled *"AI-powered analysis of multiparameter flow cytometry data for*

Indian clinical laboratories."
Key responsibilities include:

- Designing and implementing AI/ML models for analysis of high-dimensional flow cytometry datasets
- Preprocessing and structuring large-scale data to extract biologically and clinically meaningful insights
- Collaborating with immunologists and clinicians to ensure usability and translational relevance of analytical tools
- Contributing to documentation, reproducibility, and eventual publication of results

Qualifications:

- PhD in Computer Science, Data Science, Artificial Intelligence, Biology, or a related field
- Demonstrated experience in developing and applying machine learning models to complex datasets
- Background in biology with the ability and willingness to engage with immunology and cancer biology

Skills Required:

- Advanced programming and data analysis skills in Python (and/or R), including use of machine learning frameworks such as PyTorch, TensorFlow, or scikit-learn
- Familiarity with high-dimensional data, especially flow cytometry datasets
- Ability to work independently and as part of an interdisciplinary research team
- Good communication and scientific writing skills

Application Submission Process:

We invite you to embark on this journey by submitting your application to Ashoka University's <Department Name>. To ensure your candidacy receives the attention it deserves, kindly follow the application submission process outlined below:

Prepare an Updated CV: Showcase your professional accomplishments, skills, and experiences in an updated curriculum vitae.

Submit Your Application: Email your CV to Rama Akondy <rama.akondy@ashoka.edu.in>, ensuring the subject line reads as follows: "Designation – Department Name _Applicant Name>". This will help us efficiently process your application.

Include Essential Details: Along with your CV, kindly provide the following information:

- Last compensation received: We value your expertise and acknowledge the importance of fair compensation.
- Expected salary: Share your aspirations for growth and remuneration.
- Notice period: Inform us of the time required to transition from your current role, if applicable.

Pursuit for Excellence: At Ashoka University, we strive for excellence in all aspects of our operations. Therefore, only shortlisted candidates will be contacted as part of our rigorous selection process.

Adherence to Deadlines: To ensure fairness and efficiency, please submit your application by (Date, Day – if applicable). Applications received after the deadline will not be considered.

We look forward to receiving your application as we embark together on a remarkable journey of professional growth and development. Join our exceptional community at Ashoka University, where excellence is nurtured, and aspirations are transformed into reality.