



**Job Title:** Junior Multimodal Engineer (AI, Digital Health and Theranostics)

**Reports to:** Dr Rintu Kutum

Group lead, Augmented Health Systems Laboratory; Faculty Fellow, Department of Computer Science; Koita Centre for Digital Health at Ashoka (KCDH-A); Mphasis Lab for AI & Applied Tech Lab at Ashoka; Trivedi School of Biosciences, Ashoka University

**Location:** Ashoka University, Rai, Sonapat, Haryana

**Experience (in years):** 0-1

**Open Positions:** 1

**Nature of work:** Full-time (on-site)

### 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 Computer Science Department:

The Department of Computer Science at Ashoka University fosters a research-driven approach to both foundational and applied areas of computing. Its unique positioning within a liberal arts environment provides a distinctive opportunity to advance core computer science research while also exploring interdisciplinary applications across the natural and social sciences. Our department values the cross-pollination of ideas from diverse fields, not only to solve existing problems but to ask novel research questions that deepen and expand the scope of computer science.

### About Trivedi School of Biosciences:

The Trivedi School of Biosciences (TSB) was established in 2020, supported by a generous commitment from Ashok Trivedi, Founder and Trustee Ashoka, and Managing Partner, SWAT Capital. It is the first School established at Ashoka University, with a vision to bring together natural and social sciences, bridging the gap between science and society. It contains a vibrant department of biology, where innovative research and education at the undergraduate and postgraduate levels seamlessly come together, as well as thematic centres. With a stellar Advisory Board in place, Ashoka's biosciences initiative will be the cornerstone of its natural sciences programme.

TSB has been envisioned as a pioneering space for research and teaching on emerging and frontier areas of biosciences. Health research is an important facet of the TSB vision, seen through an integrative Ashokan lens that seamlessly zooms out and in between the wide landscape of One-Health for society and precision wellness for the individual.

## Role and Responsibilities:

### **Project title: Identification of non-invasive biomarkers for <sup>177</sup>Lu-PSMA therapy response in Indian prostate cancer patients using FHIR-compliant theranostic & multi-omics data and AI**

Developing EITL-FAIRified intelligent systems and integrative analysis, in collaboration with the medical officers and project team members and principal investigators

*The candidate will be involved in developing multimodal AI applications to digitize, standardize and harmonize the theranostics data (both Imaging and Non-imaging data) into FAIR (Findable, Accessible, Interoperable and Reusable) data artifacts. The candidate will develop APIs for transforming FAIR data artifacts into HL7-FHIR minimum Common Oncology Data Elements and HL7-FHIR Imaging Study (Radiology) Resources.*

## Salary (consolidated):

**Rs. 30,0 00/-** (consolidated) per month

**Working hours:** 8 hours per day Mon-Fri:

9 am - 5 pm

## Qualifications:

1. Engineering/ IT/ CS-First Class Graduate Degree (First class).
2. Working experience in the area of AI, Digital Health in Theranostics data (desirable).

## Skills Required:

1. **Prior experience** in designing, developing, and maintaining applications using **full-stack AI/Large Language Model/RAG frameworks** [desirable]
2. **Working knowledge of Relational, Non-relational, and Graph Databases** [desirable]
3. **Knowledge of RESTful APIs, web services, microservices, JSON, XML** [desirable]
4. **Familiarity with Computational Reproducible Technologies** - version controls (git), environments (conda), Docker for containerization, deployment, and connecting with APIs [desirable]
5. **Implementation of Foundation models (fine-tuning)**, for downstream tasks in theranostic settings [desirable].
6. **Prior experience in deploying applications to Cloud Infrastructure** - AWS/Azure [desirable].
7. **A good track record of scientific research articles** (not review articles) would be desirable.

## Application Submission Process:

We invite you to embark on this journey by submitting your application to [rintu.kutum@ashoka.edu.in](mailto:rintu.kutum@ashoka.edu.in) with the email subject as <AHLS/Theranostics/Junior Multimodal Engineer>. 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.

**Prepare a motivation letter:** Write a motivation letter (2 pages maximum, Font - Arial, Font size - 12, Line & Paragraph spacing - single (1.0), Regular A4 page format), reasoning about **why you are interested** in joining the research project, justify how you can **contribute with your current expertise & skillsets**, and how this project **aligns with your future career trajectory**.

**Submit Your Application:** Email **your CV** (example - [Junior Multimodal Engineer\\_CV\\_YourName.pdf](#)) and motivation letter (example - [Junior Multimodal Engineer\\_motivation\\_letter\\_YourName.pdf](#)) to [rintu.kutum@ashoka.edu.in](mailto:rintu.kutum@ashoka.edu.in), ensuring the subject line reads as follows: "<AHLS/Theranostics/Junior Multimodal Engineer>". This will enable us to process your application efficiently.

**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 **15 June 2026 or until the position filled**.

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.