

# Full-time Research Assistant - Multimodal AI Systems for Type 1 Diabetes

**Department:** Gilbert S. Omenn Department of Computational Medicine and Bioinformatics (DCMB), University of Michigan Medical School

**Location:** NCRC Building 520, Ann Arbor, MI

**Position Type:** Full-time Research Assistant

**Contact:** [kailiua@umich.edu](mailto:kailiua@umich.edu) | Subject line: "Full-time RA Application"

## POSITION DESCRIPTION

We are seeking a motivated full-time Research Assistant with a strong background in Computer Science, Artificial Intelligence, Data Science, or related fields to join our research team at the University of Michigan Medical School. This project focuses on developing multimodal AI systems for Type 1 Diabetes (T1D) by integrating large-scale biomedical datasets, including genomics, single-cell omics, spatial biology, and clinical data. The successful candidate will work in an interdisciplinary environment alongside computational scientists, clinicians, and AI researchers. This work is part of an ongoing NIH R01-funded project focused on applying AI approaches to understand and predict the progression of Type 1 Diabetes using multimodal biological data.

## RESPONSIBILITIES

- Assist with the development and training of single-cell foundation models (scFM)
- Support the implementation of multimodal AI model pipelines
- Contribute to AI agent systems for biomedical data analysis
- Perform data preprocessing, model evaluation, and result visualization
- Collaborate with the research team on large-scale biomedical AI projects

## PREFERRED QUALIFICATIONS

- Background in Computer Science, AI/ML, Bioinformatics, or Data Science
- Experience with Python and deep learning frameworks (e.g., PyTorch)
- Familiarity with machine learning, foundation models, or multimodal AI
- Experience with single-cell or genomic data analysis is a plus
- Strong problem-solving skills and ability to work in a collaborative research environment

## HOW TO APPLY

Please email [kailiua@umich.edu](mailto:kailiua@umich.edu) with the subject line "Full-time RA Application" and include a short personal introduction describing your background and research interests, along with your current CV or resume.