



# UNIVERSITY of CALIFORNIA, SAN DIEGO

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## SCHOOL OF MEDICINE

Division of Endocrinology and Metabolism

### **Staff Research Associate position available: computational genetics of insulin resistance**

#### **PI: Amit R. Majithia, MD**

Associate Professor, Department of Medicine  
*School of Medicine, UCSD*

#### **Summary**

The Majithia Lab at UC San Diego is seeking a motivated and detail-oriented computational research associate to perform analyses of human genetic and multi-omic data in metabolic disease. Our mission is to identify and therapeutically target the molecular drivers of insulin resistance to prevent diabetes and its complications. Working under direct supervision, the successful candidate will contribute to the lab's mission of identifying genes that control human insulin sensitivity. This position will involve processing and analyzing large-scale sequencing datasets (e.g., bulk and single cell RNA-seq and ATAC-seq), accessing and analyzing human biobank datasets, performing genetics analyses, and applying bioinformatics pipelines. The research associate will collaborate closely with experimental and computational scientists.

The successful candidate will be hired in the Department of Medicine at the UCSD School of Medicine and work in a state-of-the-art genomics laboratory at the center of the La Jolla campus with neighboring colleagues in cancer and cardiovascular genomics, as well as systems biology, neurodevelopmental genetics, and metabolomics.

#### **Responsibilities**

- Conduct genetic and proteogenomic analysis in the UK Biobank and Million Veteran Program cohort.
- Analyze single cell multiomics data from human adipose and other tissue samples.
- Prepare figures and results from analyses.

#### **Requirements**

- Bachelor's degree in biological science, computer science, bioinformatics, or related field, or equivalent experience/training.
- Foundational knowledge of bioinformatics methods, data structures, and biological data analysis.
- Experience with programming or scripting languages, such as Python or R, and familiarity with Unix-based systems.

#### **Preferred Qualifications**

- Experience with analysis of NGS sequencing data, including RNA-seq, ATAC-seq, or related 'omics datasets.

- Operational experience with population scale biobanks such as UK Biobank, Million Veteran Program, All of Us.
- Working knowledge of cloud-based analysis platforms such as DNAnexus or comparable environments.
- Experience with statistical modeling of 'omic data sets including proteomics, metabolomics, and transcriptomics.

**To Apply**

Send a CV, at least two references, and a one-page statement of research interests and career goals to Amit Majithia, MD at [majithialab@health.ucsd.edu](mailto:majithialab@health.ucsd.edu).