



## Postdoctoral Fellow, Graduate Student, and Research Assistant Positions in Genomics and Bioinformatics

The University of Vermont, founded in 1791, is a premier research university internationally acclaimed for excellence in medicine, biology, and health science. It is one of original "Public Ivies", and the fifth oldest university established in New England (after Harvard, Yale, Dartmouth and Brown). The University of Vermont College of Medicine is the 7th oldest medical school in the nation.

The University of Vermont College of Medicine Department of Microbiology and Molecular Genetics is looking for multiple research positions, including postdoctoral fellows, graduate students, and research assistants, with experience or interests in multi-omics and bioinformatics research of human disease to join our newly-funded projects including disease risk discovery, bioinformatics development, and translational medicine. The applicants will join a highly collaborative team to analyze newly generated multi-omics data (genome, transcriptome, epigenome, phenome, etc.) from patient blood, postmortem brains, neurons, and mice. We are fully committed to supporting applicants' research and career development. Various research training opportunities, including grant and manuscript writing, will be provided. We also have various internal trainee fellowships available that the applicants can apply immediately. The applicants are expected to present in national and international conferences and prepare manuscripts to publish. Applicants with quantitative biology background (genomics, bioinformatics, data science, etc.) are especially encouraged to apply.

Applicants with the following bioinformatics experience are particularly invited to apply:

- Use high-throughput sequencing (HTS) data analysis pipelines
- Process FASTQ/BAM files in Linux servers
- Perform advanced statistical correlation tests and pathway analyses using various packages
- Prepare figures using R packages
- Understand importance to verify all analyses/results (rigor of research) and complete within deadlines

Applicants with the following expertise or interests are **highly** encouraged to apply:

- Use existing pipelines to process whole-genome sequencing and RNA-Seq FASTQ/BAM files to genotype and to quantify expression of transposable elements (TEs)
- Quickly learn how to use new TE- or endogenous retrovirus (ERV)-related pipelines
- Develop new pipeline to improve HTS-based TE or ERV analyses
- Use or develop single-cell/-nucleus or long read sequencing data analysis pipelines
- Use standard pipelines to process DNA methylation .idat files
- Know standard molecular verification of HTS findings (e.g., qPCR/ddPCR)

The University of Vermont is located by the beautiful Lake Champlain. Burlington is one of the best cities to live in the U.S. Competitive salary or stipend will be provided. To apply, please send CV to: dawei.li[at]uvm.edu (please highlight related research experience or interest in your email). The positions are available till filled. The job updates can be seen online ([www.uvm.edu/genomics/attachment/positions.pdf](http://www.uvm.edu/genomics/attachment/positions.pdf)).

