The Department of Biostatistics has a 40+ year history in the Virginia Commonwealth University (VCU) School of Medicine, and is committed to excellence in both biostatistical research and graduate education. The department currently has 20 faculty members, 28 full-time students (M.S. and Ph.D.), and 6 professional staff. The department offers both M.S. and Ph.D. degree programs in Biostatistics, including a concentration in Genomic Biostatistics and a M.S. in Clinical Research in Biostatistics. Faculty members in the department maintain an active methodological research portfolio in spatial epidemiology, Bayesian methods, clinical trials, categorical and longitudinal data analysis, survival analysis, computational genomics, etc. In addition, the faculty, staff, and students collaborate actively with clinical investigators on the VCU/Medical College of Virginia Campus (which includes the Schools of Medicine, Dentistry, Pharmacy, Nursing, and Allied Health) in a wide variety of biomedical research projects. Located in Richmond, Virginia, VCU has established relationships with the Virginia Department of Health, as well as other local and regional health departments. In addition to other computational resources at VCU, the department supports its own high-performance computing cluster.

Duties and Responsibilities: A postdoctoral position is available immediately in the Department of Biostatistics at Virginia Commonwealth University. The main focus will be the development of biostatistical methods and bioinformatics tools for the analysis and interpretation of the 3D structure of the human genome (Hi-C data). Numerous collaborative opportunities are available. This is an excellent opportunity for someone who seeks a stimulating interdisciplinary work environment.

Qualifications: Ph.D. in Bioinformatics, Biostatistics, Computer Science, or related field. Working experience in the bioinformatics analysis, integration, and interpretation of high-throughput sequencing data; experience with single-cell or metagenomics analysis is considered a plus. Demonstrated experience with the application of supervised and unsupervised machine learning methods to biomedical data; experience with deep learning frameworks (e.g., TensorFlow) is considered a plus. Proficiency in programming, data analysis and data visualization using R/Bioconductor, familiarity with Linux command line and high-performance computing environments, version control with Git, is required. Experience with at least one of Python/Jupyter, Matlab, C, Java is considered a plus. Must demonstrate strong personal initiative and the ability to work effectively as a part of a team. A track record of publications in relevant peer-reviewed journals. Fluent in English (oral and written).

Instructions: Apply by visiting https://www.vcujobs.com/postings/86177. Interested applicants should include a cover letter describing your previous research experiences, specific interest in this position, and programming experience, a current CV, expected starting date, as well as contact information for three references. Review of applications will begin immediately and continue until the position is filled. Questions: Contact Dr. Mikhail Dozmorov at mdozmorov@vcu.edu.

Virginia Commonwealth University is an urban, research intensive institution with a diverse university community and a commitment to multicultural opportunities. VCU is an equal opportunity/affirmative action employer. Women, minorities and persons with disabilities are encouraged to apply.