A postdoctoral position is available in the laboratory of Dr. Xin Li, an Assistant Professor at the University of Rochester Center for RNA Biology, Genome to Therapeutics, Department of Biochemistry and Biophysics and Department of Urology. The Li lab seeks to understand RNA regulation in reproduction and the molecular mechanisms of infertility (for more details see urmc.zhoahua.rochester.edu). We are looking for a highly motivated individual to apply bioinformatic approach to basic and clinical questions.

MAJOR RESPONSIBILITIES:
• Developing novel methodologies to analyze and integrate multiple “-omic” data
• Install, modify, implement, and update deep sequencing data analysis pipelines
• Preparing reports using mysql or equivalent technologies
• Organize and keep systematic backups of many hundreds of deep sequencing libraries including small RNA sequencing, RNA sequencing, CAGE, PAS, Degradome, ChIP, and various other data
• Service and maintain lab backup server and web server which includes maintaining UCSC browser, R studio, and lab website
• Supervise/support lab on bioinformatics analysis
• Assists PI in grant writing and publication

REQUIRED QUALIFICATIONS:
• Proficient in the Unix/Linux computing environment and an excellent knowledge of Bash scripting
• Proficiency in Python/Perl, Java/C++/C a must (“/” means good at least one of the two)
• Familiarity with biostatistics including knowledge of R and genomic tools including bedtools, samtools, tophat, etc., is a plus
• Good communication and organization skills
• An understanding of molecular biology and experience with RNA-seq is a plus
• Experience in building server is a plus

Being in the lab with inter-disciplinary expertise, Ideas and data generated by the “dry” component of the lab will be tested rapidly and efficiently by “wet” bench members, and vice versa. Rochester Center for RNA Biology is a mecca for RNA researchers, with a long history of nurturing RNA biologists and discoveries. Community members are both vibrant and friendly. Moreover, the city of Rochester is safe, beautiful and affordable.

Please provide a cover letter describing your past projects and career goals. Please also describe what you hope to get out of this position and what you hope to bring to the Lab. Enclose your detailed CV with names and contacts of three referees to Xin_Li@URMC.Rochester.edu.