TEXAS TECH UNIVERSITY
HEALTH SCIENCES CENTER™

Bioinformatics Postdoctoral Associate

Texas Tech University Health Sciences Center is ranked among the top 100 medical schools in the U.S. (**16th** in Primary Care, according to *U.S. News*). Texas Tech University is the **second** largest contiguous campus in the U.S. (1,900 acres), and the only R1 university in Texas with an undergraduate and graduate university, law school, and medical school all on the same campus.

Lab Description: The Li Bioinformatics and Genomics Lab (dllab.org) is seeking Postdoctoral Associates in genomic FASTQ data analysis and pipeline development to join our new lab and planned new Center for Genomic Medicine. We offer large in-house raw sequencing datasets (e.g., genome, transcriptome, methylome), state-of-the-art HPC resources, and strong mentoring and support team. Example work includes viral integration (*Genome Res*, PMID 30872350); transposable element (*Bioinformatics*, PMID 30895294). We are fully committed to supporting trainees' career development. The salary is competitive and commensurate with experience and productivity.

Responsibilities:

- Analyze large in-house FASTQ raw sequencing data (alignment and *de novo* assembly); Conduce downstream integrative multi-omics analyses
- Compare and benchmark methods; When possible, develop new pipelines, software or databases related to detection of transposable elements or viral integrations
- Review related literature and incorporate the methods or findings into the ongoing projects; Optimize pipelines and parameters specific to projects; Perform quality assurance of workflows and analyses, including essential positive and negative controls; Pay attention to details
- Maintain accurate records of methods and parameters used; Ensure reproducibility
- Present in meetings and conferences and draft manuscripts for publication
- Adhere to project deadlines; Perform other tasks as assigned

Required Minimum Qualifications:

- PhD or equivalent doctorate (e.g., D.Sc., M.D.) in area of project specialization.
- Knowledge of modern research practices, the methods, resources, and standards thereof. Ability to organize work effectively, conceptualize and prioritize objectives and exercise independent judgment based on an understanding of organizational policies and activities. Ability to integrate resources, policies, and information for the determination of procedures, solutions and other outcomes. Ability to establish and maintain effective work relationships with other employees and the public. Ability to plan and allocate the workload of employees, providing direct training and supervision as needed.

Preferred Minimum Qualifications:

- Proficiency in Linux, HPC, FASTQ files, etc.; Strong self-motivation and problem-solving skills.

City of Lubbock: Lubbock, with a population of 326,546, ranks as the **#1 place** for new graduates. Roughly 1 in 5 residents are in their 20s, making it an **ideal location** to build a social circle. Low living costs; No State Income Taxes; ~262 days of sunshine/year, etc. See **Photos**.

To **apply**, all applicants should submit to: https://sjobs.brassring.com/TGnewUI/Search/Home/Home?partnerid=25898&siteid=5283#jobDetails=878399_5283. Please also email a copy of your CV to the PI: dllab.bioinformatics@gmail.com or dawei.li@ttuhsc.edu. The updated positions can be seen (https://dllab.org/positions/postdoc.pdf).

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EEO Statement
All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, gender expression, national origin, age, disability, genetic information or status as a protected veteran.

Jeanne Clery Act
The Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act is a federal statute requiring colleges and universities participating in federal financial aid programs to maintain and disclose campus crime statistics and security information. By October 1 of each year, institutions must publish and distribute their Annual Campus Security Policy & Crime Statistics Report (ASR) to current and prospective students and employees. To view this report, visit the TTUHSC Clery Act website.