

# Bioinformatics Postdoctoral Associate

Texas Tech University Health Sciences Center is a top 100 Best Medical School (**Ranked 19** in Primary Care by US News). Texas Tech University is the **second largest** contiguous campus (1,900 acres) in the US, and the only **R1** university in Texas to house an undergraduate and graduate university, law school, and medical school on the same campus.

**Lab Description:** The Li **Bioinformatics and Genomics Lab** ([dllab.org](http://dllab.org)) is seeking multiple Postdoctoral Associates in genomic FASTQ data analyses and pipeline development to join our new lab and planned new Center for Genomic Medicine. About our lab: Large ME/CFS raw sequencing data (genome, transcriptome, methylome, etc.); State-of-the-art HPC; Strong mentoring and support team. Example papers: *Genome Res* PMID: 30872350; *Bioinformatics* PMID: 30895294. The University and lab are fully committed to supporting trainee's career development and research freedom. Salary is **highly competitive** and is commensurate with experience and productivity.

## **Responsibilities:**

- FASTQ-based raw sequencing data analyses and software development; alignment/*de novo* assembly; transposable element detection; integrative multi-omics analyses; database.
- Method and software comparisons and benchmarking of available tools. Analyzing large in-house FASTQ raw sequencing data.
- Optimize pipelines and parameters specific to projects. Perform quality assurance of all workflows and analyses. Ensure all essential positive and negative controls included.
- Read literature related to current projects and incorporate into the projects.
- Maintain accurate records of methods, software, and parameters used. Ensure reproducibility.
- Draft reports and original manuscripts for publications. Present in meetings and conferences.
- Work carefully, pay attention to details, and troubleshoot bugs. Adhere to deadlines.
- Perform other research proposed or preferred by the candidate.

## **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:**

- Proficient in Linux command lines, **HPC**, **FASTQ** raw data, pipeline development and comparison, etc.; Self-motivated.

**City of Lubbock:** With a population of 326,546, Lubbock metro ranks as the **No. 1 place** for new grads. Roughly 1 in 5 residents is in their 20s, making it **a good place** to find friends and 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=810460\\_5283](https://sjobs.brassring.com/TGnewUI/Search/Home/Home?partnerid=25898&siteid=5283#jobDetails=810460_5283). Please also email a copy of your CV to the PI: [dllab.bioinformatics@gmail.com](mailto:dllab.bioinformatics@gmail.com) or [dawei.li@ttuhsc.edu](mailto:dawei.li@ttuhsc.edu). The updated positions can be seen (<https://dllab.org/positions/postdoc.pdf>). PhD scholarship also available ([dllab.org/positions/PhD.pdf](https://dllab.org/positions/PhD.pdf)).

*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.*

