

Ph.D. Scholarship for Bioinformatics and Genomics

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. Join our lab through one of our graduate programs.

Ph.D. Programs for bioinformatics and genomics research (GRE waived. Fully funded.)

- TTUHSC [Biomedical Sciences Ph.D.](#) #Summer/Fall 2026 (by **Dec 1**; Mar 1: [Apply](#); [Admit](#); [FAQ](#))
- TTU [Biology Ph.D.](#) #Summer & Fall
- TTU [Computer Science Ph.D.](#) #Spring & Fall

(Self-funded M.S. programs ([Biotech M.S.](#); [Biology M.S.](#); [CS M.S.](#)) also available)

Lab Description: The Li Bioinformatics and Genomics Lab (dllab.org) is seeking multiple PhD students 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 the detection of transposable elements or viral integrations
- Review related literature and incorporate the findings or methods 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

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**, please send CV to: dllab.bioinformatics@gmail.com or dawei.li@ttuhsc.edu. The updated position can be seen (<https://dllab.org/positions/PhD.pdf>). Postdoc positions also available (<https://dllab.org/positions/postdoc.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.

