

**TTU Post Doctoral Research Associate
Texas Tech University**

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Posted Oct. 17, 2024, set to expire Feb. 12, 2025

Job Title	TTU Post Doctoral Research Associate
Department	Research
Institution	Texas Tech University Lubbock, Texas
Date Posted	Oct. 17, 2024
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Post-Doc
Academic Field(s)	Public Health/Biostatistics/Epidemiology Medical Microbiology Biomedical Sciences
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Job Description

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Performs specialized Post Doctoral work in the planning, conducting and/or supervision of original research. Responsible for participating in a research project associated with PhD studies and the interpretation of the results of publication. Work is performed under supervision of graduate faculty members with evaluation based on accomplishment of assigned objectives and overall effectiveness of project. May supervise research and student assistants.

Major/Essential Functions

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1. Research and Analysis:

- Apply expertise in Machine Learning, Scientific Machine Learning, Bioinformatics, Pattern Recognition, Multi-scale Simulations, and Statistical Sampling to advance research projects.
- Conduct molecular docking and molecular dynamics simulations of biomolecular systems.
- Perform force field parameterization and enhanced sampling free energy calculations (e.g., free energy perturbation, umbrella sampling, metadynamics).
- Utilize quantum mechanical calculations (DFT, QM/MM) to support research objectives.

2. Collaboration:

- Work closely with researchers at the Human Molecular Aging Center to address mathematical modeling and analysis challenges related to biological systems.
- Engage in collaborative problem-solving and interdisciplinary research efforts.

3. Professional Development:

- Participate in professional development, mentoring and training opportunities.
- Contribute to cutting-edge research projects, including grant writing and research dissemination.
- Engage in collaborative learning and sharing of research findings.

Required Qualifications

PhD 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 Qualifications

Machine Learning, Scientific Machine Learning, Bioinformatics, Pattern Recognition, Multi-scale Simulations, and Statistical Sampling, molecular docking and molecular dynamics, force field parameterization, quantum mechanical calculations

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Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact

Research
Texas Tech University

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