

Postdoc Openings



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The **Yoon & Qian Labs** in the Department of Electrical and Computer Engineering at Texas A&M University (College Station, TX) invite outstanding candidates to apply for a post-doctoral researcher position in **AI/ML and Scientific Computing for the development of Future Vaccines**. Essential duties and responsibilities will involve the development of AI/ML-enabled scientific workflows for effective and computationally efficient antigen prediction/design and the construction of an AI/ML-ready scientific data repository. Topics of interest include: (i) *generative AI*, (ii) *protein language models*, (iii) *protein structure prediction*, (iv) *active learning & optimal experimental design (OED)*, (v) *multi-modal AI/ML models*. The postdoc will be mentored by both Drs. Yoon and Qian and closely collaborate with other researchers at Texas A&M and other partnering institutions.

Required Knowledge, Skills, and Abilities:

- Ph.D. in Electrical Engineering, Computer Science, Statistics, or a related field (e.g., Applied Mathematics, Operations Research, Chemical Engineering, Physics)
- Programming experience in AI/ML and Scientific Computing
- Strong and productive track-record in outstanding scientific research (evidenced by publication record)

Preferred Knowledge, Skills, and Abilities:

- Fundamental research in AI/ML
- AI for Science
- Natural Language Processing (NLP), Large Language Models (LLM)
- Bayesian Methods
- Uncertainty Quantification (UQ)
- Optimal Experimental Design (OED)
- Bioinformatics, Computational Biology, Structural Biology
- Protein Structure Prediction, Protein Language Modeling
- Computational Immunology, Antigen-Antibody Interactions, Antigen/Antibody Design
- Cloud Computing & Scientific Database Development/Management

How to apply: Multiple postdoc positions are available. Well-qualified individuals interested in the post-doc position should submit the following documents by email: (i) cover letter, (ii) CV, (iii) 2~3 major publications.

Send email to: Dr. Yoon bjyoon@tamu.edu and Dr. Qian xqian@ece.tamu.edu

With subject: [Postdoc application] First-name Last-name, current affiliation

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