

PhD Position in Neuroimaging Motion Artifact Simulation  
@ Wichita State University  
Wichita State University

Direct Link: <https://www.AcademicKeys.com/r?job=246513>

Downloaded On: Oct. 5, 2024 5:10am

Posted Oct. 4, 2024, set to expire Feb. 3, 2025

**Job Title** PhD Position in Neuroimaging Motion Artifact Simulation @ Wichita State University

**Department** Biomedical Engineering  
<https://www.wichita.edu/academics/engineering/biomedical/index.php>

**Institution** Wichita State University  
Wichita, Kansas

**Date Posted** Oct. 4, 2024

**Application** Open until filled

**Deadline**

**Position Start Date** Available Immediately

**Job Categories** Graduate Student

**Academic Field(s)** Bioengineering (all Bio-related fields)

**Apply By Email** [yuan yuan.gao@wichita.edu](mailto:yuan yuan.gao@wichita.edu)

### Job Description

The Neuroimaging Lab directed by Dr. Yuanyuan Gao and Mechanobiology and Biomedicine Lab directed by Dr. David Long at Biomedical Engineering department at Wichita State University have a PhD position available starting from Spring 2025. This PhD student will be co-advised by Prof. David Long and Prof. Yuanyuan Gao. We are looking for candidates with interests in neuroimaging motion artifact simulation, utilizing finite element and Monte Carlo simulation tools. This project will solve the problem of how brain tissue deformation contributes to noise in optical neuroimaging signals.

The successful candidate will be joining a diverse team performing edge-cutting research at the intersection of mechanical simulation and photon simulation to contribute to bioscience. This is an excellent opportunity for aspiring researchers who want to contribute to fundamental research projects with deep societal impact.

For qualified PhD candidates, stipend and tuition will be provided. Continuation of financial support is contingent upon satisfactory academic/research performance and availability of funds.

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Minimum qualifications:

Candidates must possess, at the beginning of their PhD study, at minimum an undergraduate degree or an equivalent degree in a technical/analytic area including, but not limited to, biomedical engineering, mechanical engineering, computer science, and electrical/optical engineering.

Minimum Knowledge, Skills, and Abilities:

- Interests in computing or mathematics
- Excellent interpersonal skills
- Analytic, reasoning and problem-solving skills

Preferred Knowledge, Skills, and Abilities:

- Knowledge of the finite element method
- Knowledge of Monte Carlo Simulation
- Experience with Matlab or Python
- Experience with human subject studies
- Experience with high impact peer-review paper and grant writing

Location:

The position is in Wichita, KS, USA.

How to apply:

Please apply by sending your resume/CV and a cover letter to [yuanyuan.gao@wichita.edu](mailto:yuanyuan.gao@wichita.edu) and [david.long@wichita.edu](mailto:david.long@wichita.edu). We welcome candidates who will bring diverse intellectual, geographical, gender and ethnic perspectives to Wichita's campus communities.

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**EEO/AA Policy**

1.

**Equal Opportunity**

WSU is committed to providing an equal opportunity for all qualified individuals to be considered for employment, benefits and conditions of employment, and educational programs and activities, regardless of age (40 years or older), ancestry, color, disability, ethnicity, gender, gender expression, gender identity, genetic information, marital status, national origin, political affiliation, parental status, pregnancy, race, religion, sex, sexual orientation, or status as a veteran. A university environment providing equal opportunity in hiring and all conditions of employment will make strides towards the elimination of discrimination.

2.

**Affirmative Action**

WSU is committed to taking specific, result-oriented steps to increase the number of historically underrepresented persons and increase the overall diversity. Cultural and intellectual diversity are critical components of preeminent learning communities. WSU will actively focus on and encourage applications from underrepresented group members and will strive to provide a positive and supportive environment for members of these groups.

WSU shall monitor its efforts to increase diversity through its Affirmative Action Program. The university's AAP shall outline strategic initiatives and set goals to increase the representation of underrepresented group members.

The Office of Civil Rights, Title IX & ADA Compliance is charged with the responsibility of responding to complaints of discrimination, monitoring university procedures regarding equal opportunity, setting goals, and monitoring and evaluating the university's progress towards its affirmative action goals.

**Contact Information**

Please reference Academickeys in your cover letter when

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applying for or inquiring about this job announcement.

**Contact** David Long  
Biomedical Engineering  
Wichita State University  
Wichita, KS 67260

**Contact E-mail** david.long@wichita.edu