

Graduate Student Assistant (Ph.D. student)  
Wichita State University

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Posted Jun. 16, 2024, set to expire Oct. 16, 2024

<b>Job Title</b>	Graduate Student Assistant (Ph.D. student)
<b>Department</b>	Mechanical Engineering
<b>Institution</b>	Wichita State University Wichita, Kansas
<b>Date Posted</b>	Jun. 16, 2024
<b>Application Deadline</b>	Open until filled
<b>Position Start Date</b>	Available immediately
<b>Job Categories</b>	Graduate Student
<b>Academic Field(s)</b>	Mechanical Engineering

**Apply By Email**

**Job Description**

Dr. Gisuk Hwang's research group recruits Ph.D. students in the Department of Mechanical Engineering at Wichita State University starting in Fall 2024 or Spring 2025. Our research group is dedicated to fundamentally understand heat and mass transport phenomena, especially micro-/nanoscale porous media, aiming at developing advanced thermal and water management systems, while using machine learning, X-ray image-based pore-scale modeling, computational fluids dynamics, molecular dynamics simulation, and/or additive manufacturing. Our research has been supported by National Science Foundation (NSF), The National Aeronautics and Space Administration (NASA), Kansas Water Institute, and Sandia National Lab.

Preferred candidate qualifications include:

- B.S./M.S. degree in mechanical engineering, or related fields.
- Solid knowledge of heat transfer and fluid dynamics.
- Experience in Molecular Dynamics Simulation such as LAMMPS or relevant simulation software.
- Proficiency in computer programming languages such as Python, Matlab, C/C++, Fortran.

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- Experience in High-Performance Computing (HPC) on CPU or GPU platforms.
- Experience in Computational Fluid Dynamics (CFD) such as OpenFOAM, and/or lattice Boltzmann method (LBM).

Applicants must submit: 1) Cover Letter; 2) CV; 3) Transcripts of B.S. and/or M.S. degrees; and 4) Names and contact information of three references as a single pdf to [gisuk.hwang@wichita.edu](mailto:gisuk.hwang@wichita.edu). Screening of the applications will start upon receipt and continue until the positions are filled.

### Contact Information

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

**Contact**      Gisuk Hwang  
Wichita, KS

**Contact E-mail**      [gisuk.hwang@wichita.edu](mailto:gisuk.hwang@wichita.edu)