

PhD Student and Postdoctoral Researcher
Lawrence Technological University

Direct Link: <https://www.AcademicKeys.com/r?job=263858>

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Posted Oct. 11, 2025, set to expire Feb. 10, 2026

Job Title	PhD Student and Postdoctoral Researcher
Department	Biomedical Engineering https://ltu.edu/engineering/biomedical-engineering/
Institution	Lawrence Technological University Southfield, Michigan
Date Posted	Oct. 11, 2025
Application Deadline	Open until filled
Position Start Date	Jan. 12, 2026
Job Categories	Graduate Student Post-Doc
Academic Field(s)	Mechanical Engineering Engineering Mechanics Computer Science Biomedical Engineering & Bioengineering
Apply By Email	ghe@ltu.edu

Job Description

We are currently looking for a highly motivated PhD candidate and a Postdoctoral researcher to join our team on an NSF-funded project focused on computationally and experimentally studying the interactions between engineered nanoparticles and biomacromolecules in the biological environment.

Available Positions

Postdoctoral Researcher (1 opening)

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Start date: January 2026

Job Duties (Postdoc):

The post-doctoral scholar will conduct cell-culture experiments, study proliferation of cells, synthesis of proteins, and conduct qualitative and quantitative analysis via electron microscopy. Conduct literature survey in the field of biomaterials, write review articles and publish research in journals of international repute.

Education and/or Experience (Postdoc):

Ph.D. in chemistry, materials science, chemical engineering, mechanical engineering, biomedical engineering or a related field completed within the last five years, or soon to be completed, is required.

Qualification Requirement (Postdoc):

Prior experience in one or more of the following technical areas: nanomaterials, cell culture and characterization, fluorescence microscopy, scanning electron microscopy and proteomics.

PhD Student (1 opening)

Start date: January 2026

Job Duties (PhD):

The PhD candidate will develop and run fluid dynamics and multiphysics simulations; build and analyze models of nanoparticle–biofluid interactions; assist in interpreting results and preparing technical reports and presentations

Education and/or Experience (PhD):

- Background in computer science, biomedical engineering, mechanical engineering, or physics

Qualification Requirement (PhD):

- Experience with modeling or simulation software (e.g., FEniCS, COMSOL, ANSYS, or equivalent)
- Experience in writing C++ code to implement physics equations into simulation frameworks

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- Interest in nanotechnology, biotransport phenomena, and computational biomechanics

Application Procedure

Please send application materials via email to:

Dr. Ge He (Email: ghe@ltu.edu)

Required documents:

- Cover letter describing research experience, interests and long-term career goals
- Curriculum vitae (CV)
- Names, phone number and email addresses of three professional references

Application deadline:

Applications will be reviewed immediately, and the positions will remain open until filled.

Contact Information

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

Contact

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