

Postdoctoral & PhD positions in computational
biomechanics and machine learning
Michigan State University

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Posted Jun. 26, 2024, set to expire Oct. 26, 2024

Job Title	Postdoctoral & PhD positions in computational biomechanics and machine learning
Department	Mechanical Engineering
Institution	Michigan State University East Lansing, Michigan
Date Posted	Jun. 26, 2024
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Post-Doc Post-Doc Graduate Student Graduate Student
Academic Field(s)	Computer Science Civil Engineering Civil Engineering Bioengineering (all Bio-related fields) Bioengineering (all Bio-related fields) Aerospace/Aeronautical/Astronautics Aerospace/Aeronautical/Astronautics Mechanical Engineering Mechanical Engineering Engineering Physics Engineering Physics Engineering Mechanics Engineering Mechanics Computer Science

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Job Description

The [Computational Biomechanics Lab](#) in Michigan State University has openings for **postdocs and PhD students**.

For postdoc position: The successful candidate must have a Ph.D. in either mechanical, biomedical, aeronautical, civil engineering or equivalent field with a strong foundation in programming (C++ and python), computational mechanics, numerical methods and the finite element method. Special consideration will be given to candidates who are familiar with the open-source finite element library FeNiCS, cardiovascular finite element modeling, medical image processing, and machine learning. The candidate is expected to possess excellent communication and written skills. In this position, the candidate will work to develop data-driven multiscale/multiphysics formulations and code to solve problems related to the cardiovascular system. Additionally, the selected candidate will be expected to help mentor students and publish peer-reviewed journal articles. The successful candidate will enjoy ample training and networking opportunities.

For PhD positions: We are looking for self-motivated PhD students to work in the broad area of computational biomechanics focusing on cardiovascular modeling and machine learning. Students with background in engineering mechanics, mechanical engineering, civil engineering and/or biomedical engineering are welcome to apply. PhD students in the lab will receive not only rigorous training in computational modeling of biosystems, but also exposure and possible hands-on-experience in relevant experiments involving animal studies.

Outstanding candidates are invited to submit a letter of application detailing their relevant background and a CV to lclee@egr.msu.edu. Any enquiries can also be directed to Lik Chuan Lee.

EEO/AA Policy

Michigan State University is committed to the principles of equal opportunity, nondiscrimination and, in the context of employment, affirmative action. University programs, activities, and facilities are available to all without regard to race, color, gender, gender identity, religion, national origin, political persuasion, sexual orientation, marital status, disability, height, weight, veteran status, age or familial status. The university is an affirmative action, equal opportunity employer. In carrying out this

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commitment, the university is guided by the applicable federal and state laws and regulations and policies adopted by the Board of Trustees.

The university has a comprehensive employment Affirmative Action Plan(AAP) that includes placement goals for academic and support staff employment and an affirmative action policy for the employment of veterans and persons with disabilities. The Office for Institutional Diversity and Inclusion oversees the AAP by reviewing individual academic and support staff hiring recommendations, and advises the President and other university administrators on equal opportunity, diversity and inclusion matters.

MSU is committed to achieving excellence through cultural diversity. The university actively encourages applications and/or nominations of women, persons of color, veterans and persons with disabilities.

Contact Information

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

Contact Lik Chuan Lee
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Michigan State University
East Lansing, MI

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Contact E-mail lclee@egr.msu.edu