

**Postdoctoral Research Associate Position
Systems Mechanobiology Lab
Bioengineering Dpt. | Clemson University**



Clemson University's Systems Mechanobiology Lab, directed by Dr. Will Richardson, has multiple openings to join our team's exciting efforts related to cardiac fibrosis, wound healing, and mechanobiology. Our group's overarching focus is to integrate in silico, in vitro, and in vivo models in order to develop a systems-level understanding of matrix mechanobiology and engineer novel approaches for controlling fibrotic remodeling.

Computational Position

Responsibilities: spear-head a new project to make patient-specific predictions of cardiac fibrosis and heart failure. The project will integrate large clinical datasets into cellular and extracellular network models for risk stratification and therapy design.

Qualifications: PhD in Bioengineering, Bioinformatics, Computer Science, or a related field, as well as demonstrated excellence in computational research and strong communication skills. Specific experience with one or more of the following is desirable: network modeling, reaction kinetics, and/or machine learning.

Experimental Position

Responsibilities: spear-head a new project involving in vitro cardiac tissue cultures and multi-plex tissue remodeling assays. This project will develop a novel experimental platform for high-throughput mechanobiological studies and pharmacological screens in order to identify new therapies.

Qualifications: PhD in Bioengineering, Biomedical Sciences, Biology, or a related field, demonstrated excellence in experimental research, and strong communication skills. Specific experience with one or more of the following is desirable: mammalian cell/tissue culture, mechanical bioreactors, cell-matrix interactions, and/or animal models of fibrosis or wound healing.

Application Instructions

To apply, submit a Curriculum Vitae to Dr. Richardson at wricha4@clemson.edu. Applications will be accepted until the position is filled. Clemson University is an AA/EEO employer and does not discriminate against any person or group on the basis of age, color, disability, gender, pregnancy, national origin, race, religion, sexual orientation, veteran status or genetic information. Our university is building a culturally diverse faculty and staff committed to working in a multicultural environment and encourages applications from minorities and women.

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