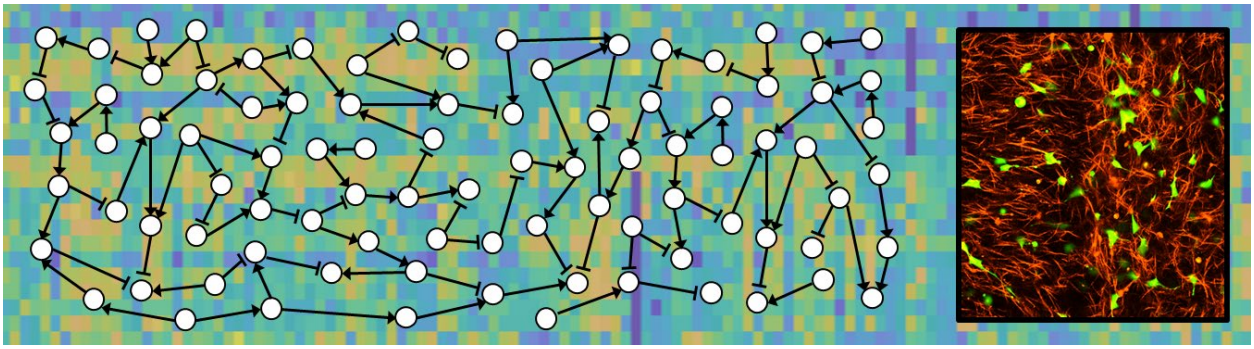
UNIVERSITY OF ARKANSAS

Multiple Postdoctoral Research Associate Positions

The Cardiac Systems Engineering Lab is seeking postdoctoral researchers to join our team's exciting efforts related to cardiac tissue remodeling and personalized medicine. Our group is building computational models of biochemical reaction networks across multicellular populations as well as experimental tissue culture bioreactors in order to better understand the bio-chemo-mechano-systems that regulate heart tissue structure. Combining computational models, data science, and in vitro screening tools, our overarching mission is to engineer personalized medicine approaches for combatting cardiac disease.



Projects

Ongoing funded projects in our group include:

- Computational approaches to infer cell regulatory networks from spatial expression data
- Computational approaches for personalized heart failure therapy selection
- Experimental in vitro models of cardiac remodeling for novel therapy screens

Qualifications

Competitive candidates should have a PhD in Biomedical Engineering, Chemical Engineering, Bioinformatics, Computer Science, Mathematical Biology, or a related field, as well as strong communication skills and demonstrated excellence in their previous research. Specific experience with one or more of the following is desired: regulatory networks, -omics analyses, agent-based modeling, machine learning, 3D cell culture, tissue remodeling.

Application Instructions

Interested applicants should send a Curriculum Vitae to Dr. Richardson at wr013@uark.edu. We are building a diverse group committed to collaborating in a multicultural environment, and we especially encourage applications from underrepresented minorities and women. Questions regarding the position can be sent directly to Dr. Richardson at the email above.

Will Richardson, Ph.D.
Bates Endowed Associate Professor
Department of Chemical Engineering, University of Arkansas