POSITION: Postdoctoral Associate (Computational Scientist)
The Kekenes-Huskey lab is seeking an interdisciplinary computational scientist for advancing state-of-the-art multi-scale calcium signaling models in support of the PI’s NIH-funded research, with an emphasis on ion transport and systems biology. The ideal candidate’s contributions will support our long-term goal of providing quantitative insight into cellular function stemming from molecular signaling. In the short term, the candidate will explore the biophysics of molecular signaling through simulation, which will complement synergistic activities with UK’s Muscle Biology Center and the Center of Obesity and Cardiovascular Disease. The primary objective of the postdoctoral associate will be to develop signal transduction models that integrate microscopy and molecular structure/function data. To support this objective, the associate will develop and implement these numerical models in close collaboration with experimental and computational colleagues. Candidates that have expertise in molecular modeling including molecular dynamics simulation are especially encouraged to apply.

QUALIFICATIONS
Expected:
• Strong publication record in biophysical modeling
• Proficiency with code development (Matlab, python or C/C++ preferred).
• Successful completion of coursework in differential equations.
• Ph.D. in Engineering, Chemistry, Physics, Biophysics or related disciplines.
• Excellent oral and written communication skills.

Strongly Desired:
• Experience with modeling partial differential equations.
• Molecular simulations, including molecular dynamics
• Coursework in numerical methods

Applications are accepted via email at pkekeneshuskey@uky.edu