The University of Virginia’s Cardiac Systems Biology Lab, directed by Dr. Jeff Saucerman, seeks Research Associates to develop computational models of cardiac signaling and gene regulatory networks. The Cardiac Systems Biology Lab integrates experimental and computational approaches to identify molecular networks that mediate cardiac remodeling and heart failure. The Research Associates will each perform research on one of two NIH-funded research projects:

1) The Research Associate will develop methods for integrating transcriptomic, proteomic, and phenotypic data from human cardiac myocytes into predictive network models. These methods will be applied to identify mechanisms and mitigators of drug cardiotoxicity.

2) The Research Associate will develop large-scale computational models of macrophage signaling and cardiac remodeling following myocardial infarction. This work is in collaboration with Dr. Merry Lindsey, whose lab is acquiring transcriptomic, proteomic, and functional signatures of macrophages following myocardial infarction.

Candidates must hold a PhD in Biomedical Engineering or a closely related field by the start date and lead-author publications in computational systems biology or bioinformatics. Candidates must also have strong communication skills and the ability to work both independently and as part of a collaborative team. Prior experience in mammalian cell signaling, modeling of biological networks, transcriptome bioinformatics, and MATLAB/R programming is preferred. Some experience with experimental cell biology, signaling or functional genomics is also preferred.

To apply, visit https://jobs.virginia.edu and search on Posting Number 0618824. Complete a candidate profile online; attach a CV, cover letter, and contact information for three references. The position will remain open until filled. For a description of the lab’s overall research interests, visit http://bme.virginia.edu/saucerman/. For questions about the position, please contact Dr. Jeff Saucerman via email at jsaucerman@virginia.edu.

The University of Virginia is an equal opportunity and affirmative action employer. Women, minorities, veterans and persons with disabilities are encouraged to apply.