June 1, 2015

Opening for Postdoctoral Research Fellow
Computational Systems Biology Laboratory (CSBL)
Department of Biomedical Engineering
University of Southern California

The Computational Systems Biology Laboratory (CSBL) is seeking a Postdoctoral Research Fellow interested in understanding the cellular metabolism of cancer cells. The fellow will work to develop an experiment-based, validated computational model of metabolism in pancreatic cancer and apply the model to identify therapies that inhibit tumor metabolism. Ultimately, the goal of this work is to impact the development of therapeutics for treating pancreatic cancer by providing a more in-depth understanding of the dynamics of altered metabolism and how the metabolic pathways can be exploited to impede cancer progression. The fellow will interact with experimental collaborators and clinical consultants.

Required Knowledge, Skills, and Abilities: Research experience in computational modeling of biochemical or metabolic reactions as evidenced by publication record; Proficient knowledge of MATLAB; Desire to identify and tackle new problems in cancer metabolism; Desire to work in a multi-disciplinary research environment; Interpersonal skills to communicate effectively with faculty, students, and staff; Experience with any of the following techniques is particularly desirable: kinetic modeling of metabolic pathways, parameter fitting, and stochastic simulations.

Minimum Education: Doctorate degree in Biomedical Engineering, Bioengineering, Chemical Engineering, or related field, from an accredited institution.

Work Environment: The CSBL is located on the University Park campus of the University of Southern California (USC). The position will involve interactions with faculty, postdocs, and students both within and outside of USC.

Salary: Commensurate with experience

Interested individuals should contact Professor Stacey Finley via email (sfinley@usc.edu) and provide a cover letter, CV, and contact information for three references that can affirm the applicant’s qualifications for this position.