

# **Postdoctoral fellow, Medical College of Wisconsin, Milwaukee**

Position: Postdoctoral fellow  
Organization: Medical College of Wisconsin  
Location: Milwaukee  
Deadline: 09/30/11

## **Description:**

Applications are invited to fill a postdoctoral fellow position in systems biology at the Biotechnology and Bioengineering Center, Medical College of Wisconsin. The prospective postdoctoral fellow will work on a recently NIH-funded research project to develop multi-scale computational models in conjunction with experimental measurements to mechanistically understand the interactions among the transport and metabolic processes comprising whole-body energy metabolism at various biological scales (enzymes/ transporters, mitochondria, cells, tissues/organs, and whole-organism) in healthy and complex disease states represented in various rat strains. Experiments will be conducted in isolated mitochondria (both cardiac and skeletal muscles) from different rat strains to provide experimental data for identifying the computational models of mitochondrial metabolism in cardiac and skeletal muscles as well as to differentiate metabolic responses in different rat strains.

## **Qualifications:**

The position requires a doctoral degree in an appropriate field of bioengineering, biomedical engineering, biochemical engineering, biophysics, biochemistry, applied mathematics, or a related scientific field. The ideal candidate should have a strong background in mathematical modeling of complex physiological/metabolic systems and data analysis, and proficiency in programming using MATLAB or FORTRAN. The candidates having a strong background in modern experimental techniques such as spectrofluometry, mass spectrometry, HPLC, or related techniques will also be considered. In additions, the candidates should have excellent written and oral communication skills. Salary will be based on NIH scale that commensurate with background and experience. Medical College of Wisconsin is an equal opportunity employer.

## **Contact:**

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