

Postdoctoral Fellow Position in Computational Systems Biology, Medical College of Wisconsin, Milwaukee, WI, USA

Position Description:

Applications are invited for a postdoctoral fellow position in the Computational Systems Biology Laboratory of Dr. Ranjan Dash starting immediately within the Department of Biomedical Engineering and Physiology at the Medical College of Wisconsin. The fellow will have the opportunity to work on several collaborative projects to develop and apply computational and systems modeling approaches in conjunction with relevant biological measurements to understand cellular and molecular mechanisms involved in various disease pathologies. One such project involves collaboration with Dr. Scott Terhune, a virologist, to understand mechanisms of cell cycle dysregulation with human cytomegalovirus infection and develop antiviral strategies, through the development of computational models of gene-regulatory network and protein-protein interaction network regulating cell cycle (dys)regulation. The fellow will interact closely with Dr. Terhune and other experimental biologists to drive the collaborative research forward. Together with their collaborators, Drs. Dash and Terhune will play an active role in mentoring the fellow towards a successful academic career by helping to establish new research areas that foster independence beyond the postdoctoral period, focusing on grantsmanship, and working with some of the most respected virologists, biologists, and computational modeling researchers in the world.

Qualifications:

The minimum criteria for the position are enumerated below:

- (1) A Ph.D. degree in bioengineering, biomedical engineering, biochemical engineering, applied mathematics, or a related scientific field. Completion of the Ph.D. dissertation within the past two years will be highly desirable.
- (2) A strong background in cell biology, mathematical modeling of biological systems, experimental data analyses, computational methods, and scientific and technical computing skills using MATLAB. Experience in computer programming using other languages, such as FORTRAN, C, C++ will be an added advantage.
- (3) Excellent communication skills (written/spoken English) and a demonstrable leadership in publishing in peer-reviewed journals and receiving academic excellence.
- (4) Lastly, the applicant should have a keen desire and initiative to learn, and the ability to function as part of a team.

Application Process:

Interested applicants should submit a single pdf file with (1) letter of intent outlining their qualifications and career objectives, (2) Curriculum vitae and a list of publications, and (3) contact information for three references who may be contacted. Application package and reprints of three representative publications should be sent electronically to Drs. Dash (rdash@mcw.edu). Salary will be based on NIH scale that commensurate with background and experience.

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