

Research assistant position in Computational Systems Biology

Computational biology Group, IIT-Delhi

An opportunity to perform research in DST supported project that involves building of mathematical models to understand morning and evening oscillators in circadian rhythms and its relationship to memory formation. The initial aim of this theoretical project is to build mathematical models of circadian rhythms based on gene regulatory networks to understand the mechanism and function of morning and evening oscillators. Student will spend full time on this and expected to contribute significantly to prepare the results for publication and presentation, and to contribute to the grant proposals.

Required Qualifications: Masters in physics/chemistry with outstanding performance throughout the program. Applicant should have done basic mathematics courses like calculus, differential equations, numerical analysis etc in their degree program and have obtained good grades in those courses. Knowledge of MATLAB and C is necessary. Strong inclination to understand biological concepts is necessary for this research work as this project is about modeling biological systems.

Salary: Salary will be in commensurate with experience.

Last date for application: The last date for application submission by email is 30.06.2014.

Preferred Qualifications:

- Candidate should have expertise in dynamical systems theory, bifurcation theory, numerical simulations, and parameter estimation.
- Candidate should be independent and have high motivation for carrying out interdisciplinary research.
- Candidate should possess excellent written and communication skills.
- Good working habits.

Interested candidates should submit both curriculum vitae and statement of interest in PDF format to sriramk@iiitd.ac.in and should clearly mention in the subject "Application for projectCB".

NOTE: Initially the project is for 6 months, and depending on the performance, another 6 months extension may be possible.