



**national centre for biological sciences
tata institute of fundamental research**

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**Postdoctoral Researcher and Junior Research Fellow
National Centre for Biological Sciences, Bangalore, India**

The NCBS is seeking outstanding candidates to fill a position for a Postdoctoral Researcher and a Junior Research Fellow under its program on '**Physics of Living Matter**'. The program seeks to understand cellular processes by modeling cells and molecules as active systems with regulatory feedback mechanisms. Problems of interest include understanding membrane mechanics during endocytosis, actin cytoskeleton–membrane coupling and structure–function relationships of the endothelial glycocalyx. Detailed information can be obtained by contacting the researchers mentioned below.

Research teams in this program are multidisciplinary and comprise of biologists, physicists and engineers. Experimental tools consist of high-end confocal and multi-photon imaging microscopes, optical trapping and atomic force microscopy (AFM). Experimental results are typically coupled with models to develop a theoretical framework for understanding these processes. Funding from national and international sources is available for these projects.

Qualifications

Post-doctoral researcher

We seek individuals with recent Ph.D. in any area of bio/physical sciences with strong research background in the use of any of the following techniques: confocal/multiphoton imaging, optical tweezers or AFM imaging of soft/biological materials. The successful candidate will be expected to interface with colleagues from different backgrounds including cell biology, condensed matter physics and optics. (S)he will also be expected to independently formulate problems, initiate experiments and provide supervision to graduate students and technicians.

To apply, please send a cover letter, latest CV, relevant publications and names of 3 references to the address below. The appointment will be for a maximum period of 3 years and will be renewed on a yearly basis based on mutual satisfaction.

Junior Research Fellow

We seek individuals with a Masters level degree in physics or engineering. Successful candidates will be trained to operate high-end characterization tools including microscopes, AFM and optical tweezers. The candidate will perform experiments using these tools under supervision of a senior graduate student or post-doctoral researcher.

CSIR fellows with a background in physical sciences are strongly encouraged to apply. To apply please send a cover letter, latest CV, relevant publications and names of 3 references to the address below. The initial appointment will be for one year and will be renewed on a yearly basis for a maximum of 3 years.

Contact: Satyajit Mayor (jitu@ncbs.res.in)
Madan Rao (madan@ncbs.res.in)
Kaustubh Rau (kaustubh@ncbs.res.in)