

**Department of Physics**  
**Savitribai Phule Pune University, Pune-400007 (India)**  
**Advertisement (Walk in Interview)**

Applications are invited for **Junior Research Fellow** post to work on a three year **SERB-DST extra mural research (EMR) project**, sanctioned to **Sudipto Muhuri**, Assistant Professor, Department of Physics, Savitribai Phule Pune University. This is part of a joint collaborative research project with **Mithun Mitra**, Associate Professor, Department of Physics, IIT, Bombay. The details are as given below:

**Title of the project: A Theoretical Investigation of the Catch Bond in Dynein: Implications for Intracellular Processes**

**Name of positions : Junior Research Fellow (JRF)**

**Number of post : 01 (ONE)**

**Fellowship (per month) : For NET/ GATE/JEST qualified candidates:**

**INR 25,000/- + HRA (for first two years)**

**and INR 28000/- + (HRA ) for third year. (HRA as per the DST norms)**

Candidate without NET/GATE/JEST may be considered for project fellow position on  
Monthly emoluments of INR 22000/- (Consolidated).

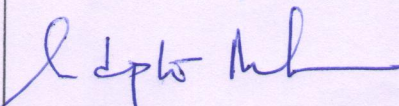
**Minimum Qualification :** M. Sc. (Physics) with minimum 55 % marks (in marks system),  
or equivalent to Grade "B" (in credit system)

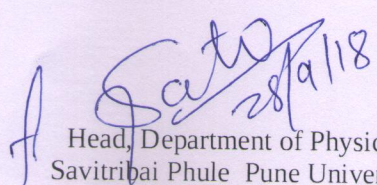
**Date and Venue : Friday, 26<sup>th</sup> October 2018, Seminar Hall, Department of Physics, at 2.00 PM**

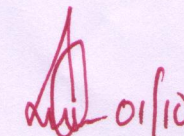
**Nature of research :** From a biological standpoint it is of significant importance to understand the underlying mechanism by which motors interact with each other and fashion the collective transport properties. This project envisages to theoretically investigate the role of catchbonding in motors in context of different intracellular processes. The project involves analytical and numerical simulation techniques. Good background in Statistical Mechanics and Numerical simulation techniques is expected.

\* Interested candidates may send their application in advance with academic details, supporting copies of certificates, any publications etc. to the **Principal Investigator Sudipto Muhuri** (E-mail- [sudipto@physics.unipune.ac.in](mailto:sudipto@physics.unipune.ac.in)). The candidates must bring original certificates/supporting documents at the time of interview.

\* Initially candidate will be appointed for two years (JRF) and promoted to SRF in the final year based on the performance. This position is **strictly temporary** and will be governed by the rules and regulations of the funding agency and SP Pune University. **No TA/DA will be paid for attending the interview.**

  
Principal Investigator

  
Head, Department of Physics  
Savitribai Phule Pune University

  
Registrar  
Savitribai Phule Pune University  
Savitribai Phule Pune University