



# Birla Institute of Technology & Science, Pilani

Pilani Campus (Rajasthan)

**Dr. Sarbani Ghosh**

Assistant Professor, Department of Chemical Engineering

## **ADVERTISEMENT FOR JUNIOR RESEARCH FELLOW (JRF) POSITION IN DST-SERB -SRG PROJECT**

Applications are invited from suitable candidates for a **Junior Research Fellow (JRF)** position to work on the following project sponsored by DST-SERB, under the supervision of **Dr. Sarbani Ghosh** in the *Department of Chemical Engineering*, BITS-Pilani, Pilani Campus, Rajasthan in the field of *Molecular Dynamics (MD) simulations of conducting polymers*. Knowledge of MD is essential and knowledge of programming is desirable.

**Title of the project: Hybrid Gas Sensors Based on p-Type/n-Type Conducting Polymers**

**Principal Investigator: [Dr. Sarbani Ghosh](mailto:sarbani.ghosh@pilani.bits-pilani.ac.in)**

**Duration of the project: 2 years (24 months)**

**Eligibility:** B.E/B.Tech/M.E./M.Tech. (with at least 60% marks) in Chemical Engineering/Material Science/Computational Material Science or relevant area; M.Sc. Physics, Chemistry with 60% marks

### **Desirable Qualifications:**

- GATE or NET qualified
- Experience in **MD simulations** using LAMMPS/GROMACS
- Knowledge of programming language, e.g., MATLAB, python, C/C++
- Experience with Bash scripting and Unix/Linux environment
- Self-motivated, keen to learn new simulation methods, ability to solve problems independently
- Good proficiency in technical writing

**Fellowship Amount:** Rs. 31,000 per month

( For more information visit

<http://serb.gov.in/pdfs/Order/OM-Research%20Fellowship-JRF-SRF-RA.pdf> )

**How to Apply:** Interested candidates should send CV and cover letter in a single PDF to the PI ([sarbani.ghosh@pilani.bits-pilani.ac.in](mailto:sarbani.ghosh@pilani.bits-pilani.ac.in)) with the subject “*Application for Junior Research Fellow (JRF) position in DST-SERB -SRG project*”.

**Application Deadline: 24/12/2021**

**About the Institute :** The Birla Institute of Technology & Science, BITS Pilani is an all-India Institute for higher education. The research facilities are wide-ranging, with a number of laboratories focused on all aspects of science, engineering, and technology. For more information visit: <https://www.bits-pilani.ac.in/Overview>

### Notes:

1. For any queries regarding position, please feel free to email the PI.
2. The position mentioned is temporary and for the period of duration of the project (2 years). If performance of the candidate is found unsatisfactory, the position can be terminated with 1-month notice.
3. The selected candidate will be encouraged to join the PhD program of BITS, Pilani as per institute Rules.
4. Only shortlisted candidates will be called for the interview (via online mode). Shortlisted candidates will be intimated by email about the date of interview. No TA/DA will be paid for appearing for the interview.



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<https://www.bits-pilani.ac.in/pilani/sarbani.ghosh/profile>