

Applications Invited for:

Senior Research Fellow (SRF)/Research Associate (RA) - I (One Position)

Applications are invited for one **SRF** or **RA-I** in a DST sponsored project entitled “Adsorption of noble metals on 2D MoS₂ placed on metal substrates: STM and STS investigations” under the supervision of **Dr. Kuntala Bhattacharjee**, Assoc. Prof., Dept. of Physics, Indian Institute of Space Science and Technology (IIST), Thiruvananthapuram - 695547, presently on leave from IIST taking up DST Mobility Scheme for 2 years and joined Institute of Physics Bhubaneswar - 751005, India, as a Visiting Scientist.

Essential and Desired Qualification of the Candidate:

SRF: The applicant must have First Class MSc/MS/MTech (Solid State Technology or relevant area) degree with at least 2 years of research experience in the field of Experimental Condensed Matter physics or submitted the PhD Thesis in the above mentioned field with a preferable exposure in working with two dimensional (2D) materials and to handle ultra high vacuum (UHV) systems related to growth and characterizations, electrical and optical measurements etc..

RA-I: PhD degree in Physics/Materials Science/Materials Engineering/Nanotechnology from a recognized University and expertise in working with two dimensional (2D) materials with an exposure to handle ultra high vacuum (UHV) systems related to growth and characterizations, electrical and optical measurements etc..

Duration of the Project:

Initial appointment of the candidate will be for one year and can be extended for the 2nd year depending on the performance of the candidate or upon termination of the project, whichever occurs earlier.

Amount of Fellowship:

SRF: Rs.35,000/- per month + HRA

RA-I: Rs.47,000/- per month + HRA

Project Description:

Primary aim of the project is to study the local electronic properties, local density of states (LDOS) of noble metal atoms like Ag, Au adsorbed on two dimensional (2D) sheets of MoS₂ placed on metal substrates to understand functionalized properties.

Start and End Dates of the Project:

3rd October, 2019 to 30th September, 2021

Applications with complete Bio-data with details of qualification i.e. examination passed, year, division/grade, percentage of marks from 10th Board onwards and mark sheets/testimonials/certificates, one reference letter along with PhD Thesis submission/completion certificate should be sent by email to kbhattacharjee@iopb.res.in/ kuntala.iopb@gmail.com. The Applicant may also include a "Note on Experience" about any desirable experience they may possess towards this project.

Last Date of Receipt of Complete Application and Recommendation Letter:

4th November, 2019

Shortlisted candidates will be intimated by email and will be called for presentation-interview at the Institute of Physics Bhubaneswar or by Skype. No TA/DA will be provided for coming for presentation and interview.

Accommodation inside the IOP campus is subjective to availability. HRA would be provided at applicable rate to the candidate staying outside the campus during the project tenure.

General Information about IOP can be found at <https://www.iopb.res.in>