

Department of Physics
School of Natural Sciences
Shiv Nadar University

Applications invited for junior research fellow in a UGC-DAE Consortium
for Scientific Research sponsored project

Applications are invited for the post of a Junior Research Fellow in a UGC-DAE CSR, Mumbai Centre funded research project (UDCSR/MUM/CD/CRS-M-247/2017/1015) on "*Toxicity of Ionic Liquids: Investigating with Model Cellular Membrane*" under the supervision of Dr. Sajal Kumar Ghosh, Department of Physics, School of Natural Sciences, Shiv Nadar University, UP 201314.

[For information of the research group:

http://snu.edu.in/naturalsciences/sajal_kumar_ghosh_profile.aspx]

Essential & Desirable Qualification

The applicant must have M.Sc. degree in Physics from a recognized University with a minimum of 55% marks or equivalent grade. It is preferable that the candidate is NET-JRF/Lectureship (UGC-CSIR joint test) or JEST qualified.

Remuneration

As per UGC-DAE CSR norms, ₹ 25,000/- p.m. plus HRA as permissible (for NET-JRF/Lectureship (UGC-CSIR joint test) or JEST qualified candidates). In case, suitable candidate is not found, candidates without NET-JRF/Lectureship (UGC-CSIR joint test) or JEST may be considered for the post of project fellow with remuneration of ₹ 14,000/- p.m. plus HRA.

Duration

One year (extendable up to 3 years based on performance and availability of funds). Note that the post is purely temporary in nature.

Project Description

The project aims to understand the physical principles of interaction of ionic liquids with model cellular membrane using neutron scattering and relevant experimental techniques.

Nature of Study

Characterizing area-pressure isotherms of organic molecules, Dynamic light scattering, Zeta potential measurement, Small angle x-ray and neutron scattering etc.

Selected candidate will require to have multiple visits to Bhaba Atomic Research Centre (BARC), Mumbai to perform small angle neutron scattering and other relevant experiments.

Eligible and interested candidate may send application with a complete CV (with details of qualifications, photocopies of mark sheets/ testimonials/ certificates and a recent passport size photograph) to reach the following office before **15th March, 2017**:

Dr. Sajal Kumar Ghosh

Assistant Professor, Department of Physics

School of Natural Sciences, Shiv Nadar University

NH-91, Tehsil Dadri, District Gautam Buddha Nagar, UP 201314, India.

(Please use PIN 201314 for Speed Post or registered post, and PIN 201307 (Dadri) for courier services.)

Email: sajal.ghosh@snu.edu.in (candidates can email a copy before sending their documents by post)

Short-listed candidates will be called for interview at Shiv Nadar University campus or via Skype. No TA/DA will be provided for appearing in this interview.

[About Shiv Nadar University](#)

Shiv Nadar University is a comprehensive, multidisciplinary, research-focused and student-centric institution that is bringing a paradigm shift in higher education in India through its innovative curriculum, interdisciplinary focus, and cross-disciplinary thinking across a wide range of disciplines. The University is building an eco-system of knowledge to promote recognition of the inter-connectedness of ideas, systems, and environments in the world inside the campus, and those outside it. The University has 5 Schools, 16 Departments and 6 Research Centers engaged in teaching, practice, and research in disciplines as diverse as Engineering, Humanities & Social Sciences, Management, Natural Sciences, Art, Design, Performing Arts, Communication, and Extended Education & Professional Development. The schools offer Bachelor, Masters, and Doctoral degrees along with multidisciplinary curriculum to enable students to explore subjects and disciplines that may be widely different from their chosen Majors.