



# Birla Institute of Technology & Science, Pilani

Pilani Campus

Sponsored Research and Consultancy Division (SRCD)

## CALL FOR RESEARCH STAFF POSITION

Date: 26 September 2022

<b>About:</b> Applications are invited from interested and motivated candidates for the post of Junior Research Fellow (JRF)/ Project Associate-1 in a time bound research project for a temporary period purely on contractual basis as per the following details:	
<b>Position:</b>	Junior Research Fellow (JRF)/Project Associate-1
<b>Number of Vacancy:</b>	01
<b>Project Title:</b>	Boosting the fluorescence of low quantum yield fluorophores and long range Förster resonance energy transfer (FRET) using anisotropic plasmonic nanoantenna.
<b>Funding Agency:</b>	SCIENCE & ENGINEERING RESEARCH BOARD (SERB)
<b>Principal Investigator:</b>	<b>Dr. Satyajit Patra</b> , Department of Chemistry
<b>Project Tenure:</b>	2 Years
<b>Job Description:</b>	The project aims to improve the fluorescence and Förster resonance energy transfer (FRET) signal of the weakly emitting fluorophores using anisotropic plasmonic nanoantenna. The candidate will work in the interface of nanoplasmonics and photophysical chemistry. The research will be focused on the fabrication, characterization of metal nanostructures of different shape and size, and applications of these nanostructures in enhancing the fluorescence of weak emitters. The candidate will be actively engaged in writing research articles and patents.
<b>Qualification:</b>	The candidate must hold an M.Sc degree in Chemistry or Physics. For Chemistry students Physical Chemistry background will be preferred. The candidate must pass the B.Sc examination with 55% marks. <b>Desirable:</b> (a) NET/GATE qualified (b) Proficiency in dealing with data analysis software e.g. Origin, IgorPro, Excel. Knowledge in programming language e.g. Python will be an added advantage. (c) Good verbal and written communication skill in English.
<b>Upper Age Limit</b>	Age not exceeding 35 years as on the date of interview. Age relaxation is allowed up to 5 year for SC/ST/PH/OBC/WOMEN candidates.
<b>Fellowship:</b>	31,000/- per month for NET/GATE qualified candidates. 25,000per month for non-NET/GATE qualified candidates.
<b>Registration for PhD.:</b>	Selected candidates will be given the opportunity for a full time PhD program at BITS, Pilani as per the institute norms.



**How to Apply:**

Applications along with updated CV should be sent through mail to [satyajit.patra@pilani.bits-pilani.ac.in](mailto:satyajit.patra@pilani.bits-pilani.ac.in). Shortlisted candidates will be informed for the interview. Mere possession of minimum qualification does not guarantee an invitation to the interview. Candidates will be shortlisted based on their merit and as per the requirement of the project. Please note that only qualified and suitable candidates will be called for an interview.

**Application Deadline: 15<sup>th</sup> October 2022****Contact Email:** [satyajit.patra@pilani.bits-pilani.ac.in](mailto:satyajit.patra@pilani.bits-pilani.ac.in)