

OFFICE OF THE DEAN, FACULTY AFFAIRS

Advertisement No. IISER BPR/ADV/PDRF/PHY/2024/04
 Dt. 09.04.2024
 Date: --/04/2024

Name of the position	PDRF
No. of position	01
Type of engagement	Temporary
Name of the Project	Ferroelectric Multiferroic Tunnel Junctions for Memory Applications
Funding Agency	IISER Berhampur
Principal investigator (PI) with contact details	Dr. Rohit Soni Assistant Professor Dept. of Physical Sciences Indian Institute of Science Education and Research Berhampur, Odisha
Qualification and experience as per MoE guidelines (F. No.12-2/2019-U1 dated January 31, 2019), F. No. 51-07/2019-TS.VII (Vol. -II) dated October 04, 2019 or as per the guidelines of the funding agency	PhD in high Experimental Condensed Matter physics. Candidates who have submitted their thesis but PhD degree is awaited can also apply. Candidate should have vast experience in growth of complex oxide thin films/heterostructures using pulsed laser deposition technique and measuring the electrical transport properties of ferroelectric ultrathin films.
Period of engagement	1-year. Extendable to additional one year based on the progress and performance.
Fellowship/Remuneration per month (₹)	As per institute norms (GoI)
Job requirement	<ol style="list-style-type: none"> 1. Epitaxial growth of ferroelectric heterostructures and development of oxide based FTJs; 2. Address, specifically, the fundamental issues such as the influence of electrode materials effects on ferroelectric polarization, domain structure evolution and the critical thickness in ultrathin ferroelectric tunnel barrier; 3. Occasional teaching duties as per requirement.
Last date of applications	A detailed CV (pdf file < 2 MB) containing list of publication and name of at least two referees, and a research statement (pdf file < 2 MB) has to be sent to the PI at rsoni@iiserbpr.ac.in latest by 30 th April 2024 (1700 hrs) with the subject line "Application for PDRF Position (2024)". For any technical information, candidates are free to contact the PI on email.
Interview	The date of interview will be informed later to the shortlisted candidates through Email/phone. The interview will be conducted online via Google Meet .

Rohit Soni