

THAPAR INSTITUTE OF ENGINEERING AND TECHNOLOGY, PATIALA
Advertisement for Junior Research Fellow (JRF) in a DST ANRF sponsored project

Applications are invited from eligible candidates for the position of JRF in the research project titled “Investigation of bulk photovoltaic charge transport in chalcogenide perovskite thin films” funded by the Department of Science and Technology, Government of India, New Delhi (Anusandhan National Research Foundation). The JRF is expected to work at Department of Physics and Material Science, Thapar Institute of Engineering and Technology.

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| Name of position | “Junior Research Fellow” | |
| Number of positions | One (01) | |
| Qualification | Master’s degree in Basic Science OR Graduate/Post Graduate Degree in Professional Courses selected through a process described through any one of the following: a) Scholars who are selected through National Eligibility Tests – CSIR-UGC NET including lectureship (Assistant Professorship) and GATE. b) The selection process through national level examinations conducted by central government departments and their agencies and institutions such as DST, DBT, DAE, DOS, DRDO, MoE, ICAR, ICMR, IIT, IISc, IISER, NISER, etc. | |
| Duration of the Position | Three years or up to the termination of project, subject to annual performance review | |
| Emoluments (per month) | Rs. 37,000/- + HRA | |
| Age limit (years) | Below 28 years, which is relaxed up to 5 years in the case of candidates belonging to SC/ST/Divyangjan (PWD) and female applicants whereas 3 years in the case of OBCs (Non-creamy layer candidates). DST rules will be applied. | |
| How to apply | Applicants should apply online at: https://forms.gle/PubiDatjtkF1ZNgu8 Please upload a single PDF file (CV and Proof of qualification & experience). Shortlisted candidates will be called for an ONLINE interview. Hence, please provide your active email address and mobile phone number. | |
| Last date | 5 PM, 2 nd December 2024 | |
| General Terms and Conditions | <ul style="list-style-type: none"> • Interview will be conducted ONLINE (link will be shared to short-listed candidates) • Selected candidates are expected to join immediately (within two weeks) • Selected candidates are strongly encouraged to join the PhD programme at Thapar Institute of Engineering and Technology. | |
| About the project | Department | PI/Co-PI |
| The project deals with ferroelectric photovoltaics, which is an emerging research field in the domain of renewable energy technology. Although the concept of combining ferroelectricity with photovoltaics appears innovative, many of the underlying principles are not well understood and the development of the devices is in nascent stage. Traditionally, the most popular ferroelectric materials include oxides; however, their high bandgap renders them less suitable for photovoltaic applications. Consequently, there have been increasing efforts globally to develop materials with optimum bandgap (1-1.5 eV) and suitable ferroelectric properties. This project involves synthesis and characterization of the novel chalcogenide perovskites, which have remained unexplored in photovoltaics till date. | Physics and Material Science | Prof. B.C. Mohanty, Prof. O.P. Pandey |