



Call for Junior Research Fellow Position

Date: 15 September 2026

About: Applications are invited from interested and motivated candidates for the post of Junior Research Fellow (JRF) in a time-bound research project sponsored by the **Ministry of New and Renewable Energy, Govt. of India, under the National Green Hydrogen Mission** for a temporary period purely on a contractual basis as per the following details:

Position	Junior Research Fellow (JRF)	Number of Vacancies: 02
Funding Agency	Ministry of New and Renewable Energy (MNRE)	
Project Title	Development of Next Generation Trace Resilient Self-Powered Hydrogen Sensors Based on 2D Materials/4H-SiC Nanocomposite Thin Films for Strategic Applications	
Investigators	Prof. Satyendra Kumar Mourya, EEE Department (Principal Investigator) Prof. Dheerendra Singh, EEE Department (Co-Principal Investigator)	
Project Tenure	03 Years (Extendable if converted to PhD at BITS Pilani based on performance)	
Project/Job Description	This project aims to leverage the synergy between 2D Materials and 4H-SiC to design and deliver next-generation trace-resilient, self-powered hydrogen sensors. The work will integrate theoretical device simulations (COMSOL/TCAD), optimized thin-film growth, device fabrication, and real-field testing to achieve benchmark performance. JRF will collaborate closely with MNRE to ensure the research is practically relevant, application-driven, and aligned with the mission.	
Qualification	B.E./B.Tech/M.E./M.Tech/MSc, in Physics / Electronics / Electrical Engineering / Electronics Engineering / Electronics and Communication Engineering.	
Upper Age Limit	As per GOI Norms	
Fellowship/Stipend	NET/GATE Qualified Candidates: 37,000/pm for the initial two years and 42,000/pm for the last year. Non-NET/GATE candidates may also apply, and their fellowship amount would be 30,000/pm (Initial two years) and 33,000/pm for the last year.	
How to Apply	Email the following documents to: satyendra.mourya@pilani.bits-pilani.ac.in with Subject line as ' Application for JRF- MNRE Project ' a. CV (Mention past education, technical skills, research experience, publications, etc.) b. Cover letter and contact details of at least two academic referees. c. Copy of the NET/GATE/National-level exam scorecard (if applicable).	
Selection Process	Candidates will be shortlisted based on their merit, experience, and as per the requirements of the project. Shortlisted candidates will be informed of the interview, which will be conducted online via Google Meet. Only qualified and suitable candidates will be called for an interview.	

Application Deadline: 25 September 2026

