



Call for Junior Research Fellows (JRF)

Date: 29 January 2026

About: Applications are invited from interested and motivated candidates for the post of Junior Research Fellows (JRF) on the research project sponsored by the Ministry of New and Renewable Energy (MNRE) . The position will be purely on a contractual basis as per the following details:		
Position	Junior Research Fellows	Number of Vacancy: 03
Funding Agency	Ministry of New and Renewable Energy (MNRE)	
Project Title	Biomass to Green Hydrogen: Development of 100 kg/day H ₂ production via oxy-steam-CO ₂ gasification integrated with catalytic CO conversion and continuous H ₂ separation using a mixed matrix hollow fibre membrane system	
Principal Investigator	Prof. Pratik N Sheth, Department of Chemical Engineering, BITS Pilani, Pilani Campus	
Co-Principal Investigator	Prof. Bhanu Vardhan Reddy Kuncharam, Department of Chemical Engineering, BITS Pilani, Pilani Campus	
Project Tenure	3 Years	
Project/Job Description	Hydrogen production and separation from green sources are vital for sustainable growth. The Government of India has identified that green hydrogen production from biomass sources will decarbonise various industrial processes utilising hydrogen produced from fossil fuels. This project proposes a novel technology and process for producing and separating hydrogen via gasification, followed by membrane-based separation. The technology developed will be employed at a pilot plant scale in collaboration with an Industrial partner (Chanderpur Renewal Power Pvt Ltd. The project will accelerate the development of biomass gasification-based Green Hydrogen production and membrane-based separation technologies	
Essential Qualification	M.E./M.Tech. with at least 60% marks in Chemical Engineering/Mechanical Engineering /Energy Science or Engineering/ Material Science / Environmental Engineering/ Nano Technology or a relevant area M. Sc Chemistry/Physics with at least 65% marks (with a minimum of one year of experience)	
Upper Age Limit	Preferably below 35 Years	
Fellowship	Rs. 37,000/- per month (as per MNRE/Govt and BITS Pilani guidelines)	
Registration for PhD	Selected candidates may be permitted to register for the PhD program of BITS Pilani, subject to fulfilling the requirements of the PhD qualification process as per the institute norms.	
How to Apply	Email the following documents to: pratik@pilani.bits-pilani.ac.in with the subject as 'Application for JRF Position' 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 score card (if applicable).	
Selection Process	<ul style="list-style-type: none">• Candidates will be shortlisted based on their merit, experience, and the project's requirements. Shortlisted candidates will be informed of the interview, which will be conducted online.• Only qualified and suitable candidates will be called for an interview.• The initial JRF appointment will be for 1 year and extendable upto 3 years based on the performance.	

Application Deadline: 10 February 2026

