



Call for Research Staff Position (JRF)

Date: 19 September 2025

About: Applications are invited from interested and motivated candidates for the post of Junior Research Fellow (JRF) on the research project sponsored by the **SAMARTH METALLURGICALS**. The position will be purely on contractual basis as per the following details:

Position	Junior Research Fellow.	Number of Vacancy: 01
Funding Agency	SAMARTH METALLURGICALS	
Project Title	Development of anti-veining additives useful for the casting applications in foundries	
Principal Investigator	Prof. Etika Krishna Chaitanya, Dept. of Chemical Engg, BITS Pilani, Pilani Campus	
Project/Fellowship Tenure	15 Months	
Project/Job Description	JRF will carry out the synthesis and development of anti-veining additives for foundry casting applications. He/She will also characterize the additives and treated sand samples using analytical techniques such as SEM/EDS, XRD, FTIR, and thermal analysis. Additionally, he/she will examine the performance of the additives in reducing veining defects through laboratory-scale casting trials and surface quality assessment. He/She will also compare the results with existing industrial practices and models of veining formation, and will propose new mechanisms or models based on the findings. He/She will also write and contribute to research papers in indexed journals, present in conferences, and support patent filing arising from the project outcomes..	
Qualification	1. First class M.Tech. in Chemical Engineering, Metallurgical Engineering, Materials Science and Engineering, Nanotechnology, or related disciplines 2. First class B.Tech. Chemical Engineering, Metallurgical engineering, Materials Science and Engineering, Nanotechnology, or related disciplines with at least 1 year of laboratory/industry experience. 3. First Class M.Sc. in Nanotechnology/ Materials Science/Chemistry + 2 years of relevant experience.	
Upper Age Limit	No Age Bar	
Fellowship/Stipend	37,000 PM /-	
Registration for PhD	Selected candidate 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: etika.krishna@pilani.bits-pilani.ac.in a. CV (Mention past education, technical skills, research experience, publications etc.) b. Cover letter and contact details of at least two academic referees.	
Selection Process	Candidates will be shortlisted based on their merit, experiences and as per the requirements of the project. Shortlisted candidates will be informed of the interview which will be conducted through online mode. Only qualified and suitable candidates will be called for an interview.	

Application Deadline: 7 October 2025

