



Dr GS MAHOBIA, ASSOCAITE PROFESSOR, DEPARTMENT OF METALLURGICAL ENGINEERING, IIT(BHU), VARANASI-221005

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Applications are invited for one **Junior Research Fellow (JRF)** position in a Gas Turbine Research Establishment (GTRE) - Bangalore, DRDO, Govt. of India Sponsored Research Project (CARS Project) entitled "**Effect of Temperature and Mean Stress on Fatigue Strength of Turbine Aerofoil Alloy**" (Project No. R&D/SA/DRDO/Met/21-22/03/295) sanctioned for a period of 4 years (2021-2025). The post is purely temporary and co-terminus with the project.

Junior Research Fellow (JRF) : One post, @ Rs.31, 000 + 4960 HRA pm

Age: Upper Age limit – 28 years: (5 years' relaxation for Female/SC/ST/ Physically Handicapped Candidate) whereas 3 years in case of OBC (Non-Creamy Layer candidates). Age limit may be further relaxed for well qualified, experienced and deserving candidates. All other factors being equal, SC/ST candidates will be preferred as per GOI rules.

Essential Qualification: First class in Bachelor's/Master's degree in Metallurgical/Materials/Mechanical engineering. The candidate must have qualified GATE score.

Desirable qualifications: Basic knowledge of mechanical testing such as fatigue and tensile testing, materials characterization by X-Ray Diffraction (XRD), Scanning Electron Microscopy (SEM) and Transmission Electron Microscopy (TEM).

Key capabilities: Excellent written and verbal communication skills, ability to produce high quality reports. Demonstrated high level of self-motivation, initiative and an ability to plan and organize work to meet deadlines and work independently with minimal supervision.

Key responsibilities: Under the leadership of the Investigators and within existing restraints, manage the project work. Planning and execution of fatigue testing as per the project test matrix. Microstructural characterization, analysis of fatigue test data and report preparation. Other duties as directed by the Principal Investigator, having regard to the constraints of the Project.

How to apply:

The interested candidates are requested to submit a detailed CV to *Dr. GS Mahobia, Associate Professor, Principle Investigator, Department of Metallurgical Engineering, Indian Institute of Technology (BHU) Varanasi - 221 005 via email : gsm.met@iitbhu.ac.in with the subject line 'JRF application for GTRE Project' latest by 30.06.2022.*

Note: CV should include details of academic grades starting from X standard onwards with details of the year of passing, university or institute, etc and also work experience and nature of work if applicable. Complete details of NET/GATE such as year of passing/validity, discipline, marks, All India Rank and number of candidates appeared should be mentioned in the CV. Incomplete applications will be rejected. Only shortlisted candidates will be called for the interview (via online mode). Shortlisted candidates will be intimated by e-mail about the date of interview. No TA/DA will be paid for appearing for the interview. Documents in support of educational qualifications, and experience certificates (for SRF position) must be produced at the time of selection process.