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Applications are invited for the following positions 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**). The post is purely temporary and co-terminus with the project. The details are as follows:

1. Research Associate (RA): One post, @ Rs. 54,000 + 8640 HRA per month.

Age: Upper Age limit – 35 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: PhD in Metallurgical / Mechanical engineering or three years of research, teaching experience after M.Tech in Metallurgical / Mechanical Engineering with at least one research paper published in Science Citation Indexed (SCI) journal. The candidate who have submitted their Ph.D. thesis with consistently good academic records are also eligible for the RAship.

Desirable qualifications: The candidates should possess the basic knowledge of fatigue testing, materials characterization by X-Ray Diffraction (XRD), Scanning Electron Microscopy (SEM) and Transmission Electron Microscopy (TEM). PhD work in the area of fatigue and fracture will be preferred.

Key capabilities: Excellent written and verbal communication skills, including the ability to produce high quality reports. Demonstrated high level of self-motivation, initiative and an ability to plan and organize work to meet competing deadlines and an ability to 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 project test matrix. Microstructural characterization and analysis of the fatigue failed specimens. Produce reports to the funding agency in a timely manner and to a high standard, as required by the funding agreement. Assist in the publication of findings, within the scope of the limits of the funding agreement.

Appropriately supervise and mentor team members and master/doctoral students. Other duties as directed by the Principal Investigator, having regard to the constraints of the Project.

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

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: The candidates should possess the 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, including the ability to produce high quality reports. Demonstrated high level of self-motivation, initiative and an ability to plan and organize work to meet competing deadlines and an ability to 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 project test matrix. Microstructural characterization, analysis of the fatigue data and report preparation. Other duties as directed by the Principal Investigator, having regard to the constraints of the Project.

How to apply:

The candidates are requested to provide self-attested copies of all mark-sheets, certificates, testimonials and details of any research or other experience etc., if any, should reach within 21 days of the advertisement, to the *Dr. GS Mahobia, Professor, Principal Investigator, Department of Metallurgical Engineering, Indian Institute of Technology (BHU) Varanasi - 221 005*. Candidates are also requested to send their details as mentioned above to PI's email: gsm.met@iitbhu.ac.in and write in the subject: '**Application for GTRE Project**'. A format for application is enclosed herewith in Annexure-A.

Selection Procedure:

- Selection will be made through interview.
- Interview may also be conducted via online mode.
- No TADA will be paid if called for interview.

Annexure-A

APPLICATION FOR THE POSITION OF "....."

1. Full Name:
2. Date of Birth:
3. Sex: M/F
4. Category: GEN/SC/ST/OBC
5. Marital Status: Y/N
6. Nationality:
7. Physically handicapped: Y / N
8. Names of Father and Mother:
9. Address of Correspondence (including phone No):
10. E-mail Address:
11. Academic Record: (a) GATE/CSIR/UGC National Exam Qualification details with Percent marks/Rank, year of qualifying, etc:

Photograph (Self-attested)

(b) Educational qualification (starting from high school):

Examination with Specialization	Details of School/ College/ University	Year of passing	Subjects	Percentage marks/CGPA	Distinction / Division

12. Details of the project carried out (if any) with duration, place of work, area worked on, mentor/ guide's name, description of the project and contribution to the project (not more than 5 sentences), and publication details (if any):

13. Working experience (if any):

14. Whether currently employed:

15. Time required to join this position:

16. Names and addresses of two referees along with phone number and e-mail address:

Declaration: I hereby declare that I have carefully read and understood the instructions and particulars on this application and that all entries in this form as well as in the attached sheets are true to the best of my knowledge and belief.

Date:

Signature:

Place:
