



DEPARTMENT OF MECHANICAL ENGINEERING  
NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA,  
SURATHKAL

**Advertisement for Junior Research Fellow (JRF)**

Applications are invited for the position of JRF in a research and development project (Ref. No. 320/NITK/ANRF/MECH/ASSB/2024-25/A9 dated 10/06/2024) with following details:

**Title of Project: Functionally graded Cu-alloy/YSZ based thermal barrier coating using Laser directed energy deposition process for rocket nozzles**

**Funding agency: ANRF**

**Project Investigators:**

Dr. A.S.S. Balan  
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Email: [balan@nitk.edu.in](mailto:balan@nitk.edu.in)

Dr. Srikanth Bontha  
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Department of Mechanical Engineering  
National Institute of Technology Karnataka, Surathkal  
Mangalore-575025, Karnataka.  
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**Designation of the position:**

Junior Research Fellow

Number of Positions/Vacancies: 1 (One)

**Qualifications:**

**Essential Qualification:**

Candidate with B.E./B.Tech in Mechanical/Production Engineering/Metallurgical Engineering/Materials Science and Engineering and other allied disciplines with a minimum of 60% aggregate score (6.5/10 CGPA). Candidate must have qualified GATE examination. (old gate score will also be considered).

Or

M.Tech./M.E. in Manufacturing/Production Engineering/ Metallurgical Engineering/Materials Science and Engineering/Materials Engineering and other allied areas with a minimum of 60% aggregate score (6.5/10 CGPA). Candidate must have qualified GATE examination (old gate score is also considered). Those who are appearing for M.Tech/M.E last semester may also apply. Proof of M.Tech/ M.E certificate has to be provided during the time of interview.



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**Desired Skills:**

- Basic exposure to Metal Additive Manufacturing Processes. Candidates with prior experience will be given preference.
- Should be able to work in a team and must have good communication skills.

Age Limit: **32 years (Preferable)**; Salary: Rs. 37,000/month

**Duration:**

Three years or up to the termination of project, subjected to quarterly performance review. The candidate if found suitable may be provided an option to register for Ph.D. at NITK Surathkal.

**How to apply:**

Interested candidates must apply with the following documents

- (1) Cover letter
- (2) Bio-data with passport-sized photograph
- (3) Scanned copies of educational certificates and mark sheets, class XII onwards
- (4) GATE qualification certificate
- (5) Scanned copies to show proof of research experience, special achievements and publications, if any
- (6) Filled copy of the application form enclosed with the advertisement.

The soft copies of all the above documents (pdf format) must be emailed to the e-mail ID [balan@nitk.edu.in](mailto:balan@nitk.edu.in) on or before **September 17, 2023**. Originals should be presented at the time of interview.

No TA/DA will be paid for attending the written test/interview. The appointment will be on a purely temporary basis co-terminus with the project. Candidates who are already employed should produce relieving certificate from their employers, if selected. Only shortlisted candidates will be intimated by e-mail about the date and time of written test/interview. The position is available immediately. The selected candidate is expected to join at the earliest.