



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. 403/NITK/SERB/MECH/SB/2020-21/A9 dated 18/02/2021) with following details:

**Title of Project: Additive Manufacturing of Large Size Metal Components with Wire & Powder Hybrid Direct Energy Deposition (WP-DED) Process**

**Funding agency: SERB**

**Project Investigator:**

Dr. Srikanth Bontha  
Associate Professor  
Department of Mechanical Engineering  
National Institute of Technology Karnataka, Surathkal  
Mangalore-575025, Karnataka.  
Ph: +91-8088193567  
Email: srikanth.bontha@nitk.edu.in  
<https://mech.nitk.ac.in/professor/srikanth-bontha>

**Designation of the position:**

Junior Research Fellow

Number of Positions/Vacancies: 1 (One)

**Required qualifications:**

B.E/B.Tech in Mechanical Engineering with a minimum of 60% aggregate score (6.5/10 CGPA) and M.Tech/M.E in Mechanical Engineering/Manufacturing Engineering/ Materials Science and Engineering with a minimum of 60% aggregate score (6.5/10 CGPA). **Applicant must have qualified GATE**. A good GATE score will be an added advantage. 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.

**Desired Skills:**

- Basic exposure to Metal Additive Manufacturing Processes
- A good knowledge in Finite Element Analysis (FEA)
- The candidate must have basic familiarity with finite element software packages to carry out computational modeling of Laser Materials Processing operations (Laser Surface Melting/ Laser Cladding/Laser Additive Manufacturing). Candidates with prior experience will be given preference.
- Should be able to work in a team and must have good communication skills.

Age Limit: **30 years**; Salary: Rs. 31,000/month



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**Duration:**

One year 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 **srikanth.bontha@nitk.edu.in** on or before **March 16, 2021**. Originals should be presented at the time of interview.

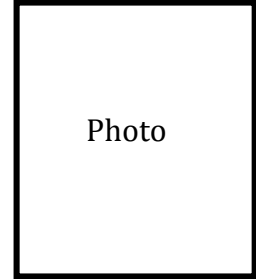
No TA/DA will be paid for attending the written test/interview. The appointment will be on a purely temporary basis co-terminus with the project. Candidates who are already employed should produce relieving certificate from their employers, if selected. Only shortlisted candidates will be intimated by 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.



Department of Mechanical Engineering  
NATIONAL INSTITUTE OF TECHNOLOGY  
KARNATAKA, SURATHKAL

**Application for the Position of Junior Research Fellow**

1. Name of the candidate (in block) :  
2. Parent name :  
3. Date of birth :  
4. Sex : M F T  
5. Martial status : Married Single  
6. Category : GEN OBC  
SC/ST PWD  
7. Previous research experience (use additional sheet, if required) :  
8. Previous industrial experience (use additional sheet, if required) :  
9. Publication(s), if any (use additional sheet, if required) :  
10. GATE details : Score Rank Year  
Specialization



11. Academic Qualification: (starting from SSLC or equivalent examination)

Name of Exam Passed	Name of the School/College/Institute/University	Year of Passing	Discipline/ Specialization	CGPA or %

12. Address:

13. Email:

14. Mobile:

I do hereby declare that the information furnished in this application is true to the best of my knowledge and belief. If selected, I promise to abide by the rules and regulations of the Institute.

Date:

Place:

Signature