



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. 846/ISRO/NITK/MECH/P.P/2019-20/A9) with following details:

**Title: Design analysis and demonstration of the porous injector concept for throttling of liquid rocket engine.**

**Funding agency: ISRO**

**Principal Investigator:**

Dr. Parthasarathy P  
Assistant Professor  
Department of Mechanical Engineering  
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Email: parthasarathy@nitk.edu.in  
<https://mech.nitk.ac.in/professor/parthasarathy-p>

**Name of the position:**

Junior Research Fellow - 1 No

**Required qualifications:**

B.E., or B.Tech., in Mechanical Eng., or Aerospace Eng., or Chemical Eng., and M.Tech., or MS(R) or M.E., or equivalent in Thermal Eng., or Fluid & Thermal Eng., or Propulsion or Computational Mechanics.

Candidates must have at least 6.5/10 CGPA or 60 percent marks in aggregate from a recognized technical institute or university as a full time program. Applicant must have qualified GATE. Proof of M. Tech/ME certificate has to be provided during the time of interview.

**Desired Skills:**

- A good knowledge in computational fluid Dynamics (CFD)
- Good ability to code using C/C++/FORTRAN
- Ability to generate compilation grids for CFD simulations
- Ability to perform CFD simulations using CFX or Fluent (candidates with prior experience will be given preference)
- Interest in carrying out experimental research
- Very good communication skills

Age Limit: **28 years**; Salary: Rs. 31,000/month



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## **Duration:**

1.5 years or up to the termination of project, subjected to annual performance review. The candidates will be provided an option to register for PhD.

## **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 X onwards
- (4) GATE qualification certificate
- (5) Scanned copies of Proof for research experience, special achievements and publications, if any
- (6) Filled copy of the application form attached with the advertisement.

The soft copies of all the above documents (pdf format) must be emailed to the e-mail ID **recruit.jrf.nitkmech@gmail.com** on or before **20<sup>th</sup> November 2020**. Originals should be presented at the time of interview.

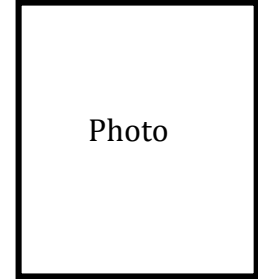
No TA/DA will be paid for attending the written test/interview. The appointment will be on a purely temporary basis co-terminus with the project. Candidates who are already employed should produce relieving certificate from their employers, if selected. The shortlisted candidates with the date of written test/interview will be intimated by email only. **The position is available immediately. Written test/interview is most likely to be held during last week of November 2020.** Candidates who have applied for the position earlier need not apply again.



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**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