# B.M.S. College of Engineering, Bengaluru
## Department of Mathematics

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## <u>Notification: Call for the position of JRF</u>

<u>Ref: BMSCE/MATH/STARS2-IISC/2023/0820</u>          **06th Dec 2023**

Applications are invited from eligible and interested candidates for the post of Junior Research Fellow (JRF) on a consolidated basis to work on the Scheme for Transformational and Advanced Research in Sciences (STARS) funded project by IISC, Bangalore.

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| **Name of the post** | **Junior Research Fellow (JRF)** |
| **Title of the Project** | DEEP NEURAL NETWORK PATH TO MULTIPHYSICS MODELING OF HEAT TRANSFER IN POROUS MEDIA |
| **Principal Investigator** | Dr. Bandaru Mallikarjuna, Assistant Professor, Dept. of Mathematics, B.M.S. College of Engineering, Bengaluru |
| **Co-PIs** | Prof. B.V.Rathish Kumar, Professor in Mathematics & Statistics, IIT Kanpur, Kanpur. Dr. Sandeep Varma N, Associate Professor, Dept. of Machine Learning, B.M.S. College of Engineering, Bengaluru |
| **Number of posts** | One |
| **Essential qualification** | M.Sc. in Mathematics or equivalent recognized University/Institution with CSIR-UGC NET / GATE |
| **Desirable qualification** | Differential Equations, Fluid Mechanics, Neural Networks, Python programming. |
| **Upper Age limit** | Maximum 28 years |
| **Relaxation** | SC/ST/OBC/Women/PWD/EWS applicants will get relaxation as per the GOI norms. |
| **Consolidated salary** | Rs 31,000/- + HRA p.m. for the first two years and Rs 35,000/- p.m +HRA for the third year |
| **Duration of employment** | The joining date will be immediately after selection. The initial appointment will be for one year, which is extendable up to 2 years, subject to the candidate's performance. |

**Note: There is a provision for the selected candidate to enroll in the Ph.D. program at the department, as per the host institution's affiliated university norms.**

**Expectations:**

- Work on developing a Neural Network Framework to solve Differential Equations
- Work along with industry research and development team
- Possible presentation and attending conferences/workshops
- Possible publications in refereed journals
- Experience the research culture in modern computation labs
- Collaborate with Undergraduate and postgraduate students for experimentation
- Interact with academicians and researchers for the research work

**General Conditions:**

1) Eligible candidates fulfilling the criteria may apply with their resume and relevant documents without fail. Otherwise, the applications will not be considered by filling out the Google form below:
https://docs.google.com/forms/d/e/1FAIpQLSf_V1Su8bPg4ySFMUdlrhhU4ez0PBiLF5-lawiMUTFIQh85aQ/viewform?usp=pp_url
2) The last date for receiving applications is **20th Dec 2023, 5 PM IST.**
3) The applicant will be responsible for the authenticity of the information, other documents and photographs submitted.
4) The Institute reserves the right to accept applications at any time and consider candidates of exceptional credentials without applications. Qualification and experience may be relaxed at any point in time for extraordinary candidates.
5) Possessing the prescribed qualification does not ensure that the candidate would be called for an interview. The Candidates will be shortlisted based on merit and need of the project.
6) Shortlisted candidates will be emailed about the interview after the deadline. So, the candidate must provide a valid email ID.
7) Shortlisted candidates must present themselves for the interview on the interview date with an updated CV and original and attested photocopies of mark sheets/certificates supporting their academic qualifications.
8) No TA/DA will be paid for attending the written test/interview.
9) Candidates who are already employed should produce a relieving certificate from their employers if selected.
10) This appointment will be purely contractual. Initially, an appointment will be for one year. It will be extendable for two more years based on the performance of the candidate and the recommendation of the selection/review committee.

**Address for Correspondence:**
Dr. B. Mallikarjuna, (Principal Investigator),
Assistant Professor in the Department of Mathematics,
B.M.S. College of Engineering,
Bull Temple Road, Bengaluru-560019, India.
Mobile: +91-8971319832, Email: mallikarjunab.maths@bmsce.ac.in

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## <u>Application for the Position of Junior Research Fellow</u>

1. Post Applied for: JRF

2. Name of the Candidate:

3. Father's Name:

4. Mother's Name:

5. (a) Date of Birth: (DD/MM/YYYY) _____

  (b) Sex (Male/Female/Other): _____

  (c) Marital Status: Married/Single

  (d) Category: SC/ST/OBC/PWD/ General

6. Previous Research Experience: (use additional sheet if required) _____

7. Publication(s), if any: (use additional sheet if required) _____

8. GATE/ UGC-NET details: Qualified (Yes/No):

9. Score: _____ Rank: _____ Specialization: _____ Year: _____

10.    Academic Qualification: (Starting from Standard 10 or equivalent Examination)

| Name of Exam Passed | Name of the School/College/Institute/ University | Year of Passing | Discipline/ Specialization | Percentage of Marks/ CGPA |
|---|---|---|---|---|
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11. a) Address for Communication: (BLOCK LETTERS):

(b) Contact No (Mob):

(c) E-mail ID:

12. Contact Details of two referees:

| | Referee I | Referee II |
|---|---|---|
| Name: | | |
| Designation: | | |
| Organization: | | |
| Office Address: | | |
| Office Phone Number: | | |
| Email ID: | | |

13. Experience if any (in years and use additional sheet if required)

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

**Note**- An extra A4 sheet may be attached if any information is required.