



# National Institute of Technology Goa

(An Institution of National Importance under MHRD, Govt. of India)

Department of Electronics and Communication Engineering

Advt. No.: NITG/ADMIN/2017/OW/ 641

Dated: August 28, 2017

## Advertisement for the Position of Junior Research Fellow (JRF)

Applications are invited from the interested candidates for the post of JRF to work on the R&D project titled "Analysis of cardiovascular disorders using heart sound signals" sanctioned by Science and Engineering Research Board (SERB), New Delhi. The staff will be appointed initially for one year (on contract) and their services will be extended for next year based on the performance review.

S No.	Position	Area of Specialization	Duration	Consolidated Salary	Number of Positions
1	JRF-Junior Research Fellow	B.Tech./B.E./M.Tech./M.E. in Electronics and or Communications Engineering/ Biomedical Engineering/ Instrumentation Engineering/ other related fields with knowledge in Biomedical Data Acquisition and Biomedical Signal Analysis and Processing using MATLAB	Initially for the period of one year which may be extended to two more years	Rs. 25,000/- (Per month)	01

### **Eligibility:**

B. Tech/B.E with valid GATE score or M.Tech./M.E./equivalent in Electronics and/or Communications Engineering or Biomedical Engineering or Instrumentation Engineering or other related fields with strong background in Biomedical Data Acquisition and Biomedical Signal Analysis and Processing using MATLAB with at least 6.5 CGPA or 60 percent marks in aggregate from a recognized technical institute or university as a full time program.

### **Objective of the Project**

- To record heart sound data from various subjects in both clinical and non-clinical environments.
- To develop methodology for accurate automated diagnosis of heart disorders using heart sound and other biomedical signals.
- To verify and compare our work with existing state-of-the-art methodologies.
- To integrate the proposed methodology into available low cost devices like electronic stethoscope and smartphones.
- To perform the clinical validation or field test of the prototype device.
- To study the possible telemedicine (and cloud) based applications of the proposed framework.

## **Application Process**

Application form (as given below) giving all the details and attested copies of certificates, supporting documents and experience certificate should reach the undersigned latest by **September 29, 2017**. Candidates who are already employed should produce relieving certificate from their employers, if selected. The written test/interview will be conducted for all the eligible candidates. The applicants need to bring all the original documents for verification during written test/interview. The list of shortlisted candidates will be posted in the NIT Goa website ([www.nitgoa.ac.in](http://www.nitgoa.ac.in)) along with the date and time of the written test/interview.



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## **Attention:**

1. The applicant will be responsible for the authenticity of information, other documents and photographs submitted.
2. The Institute reserves the right to accept application at any time, and consider candidates of exceptional credentials without applications. Qualification and experience may be relaxed by the Institute at any point of time for otherwise exceptional candidates.
3. Mere, possessing the prescribed qualification does not ensure that the candidate would be called for Interview. The Candidates will be shortlisted on the basis of merit and need of the project.
4. Shortlisted Candidates will be informed by email (apart from website) about the interview date. So, the Candidate must provide valid E-mail IDs in their applications.
5. Shortlisted candidates have to present themselves for the interview on the interview date with updated CV and original and attested photocopies of mark sheets/ certificates in support of their academic qualifications.
6. Applicants in employment (private, government or any other organization) are required to submit a “No Objection Certificate” from the employer at the time of interview.
7. No TA/DA will be paid for appearing in the interview.
8. Bio-data format is being provided with this notification. The candidates are required to bring duly filled in bio-data format along with photocopies of required documents.
9. Last date for receiving the duly filled in application is **September, 29, 2017**.
10. Intimation regarding written test/interview shall be posted on the Institute website.

## **Address for Correspondence**

**Dr. Shivnarayan Patidar,**  
**Assistant Professor, Electronics and Communication Engineering,**  
**National Institute of Technology Goa,**  
**Farmagudi, Ponda, 403401**  
**Goa- India,**  
**Telephone: 0832-2404212**  
**Email: shivnarayan.patidar@nitgoa.ac.in**  
**Website: www.nitgoa.ac.in**

**NOTE:** The envelope containing the application should be super scribed as “**Application for the position of Junior Research Fellow under SERB project on Analysis of cardiovascular disorders using heart sound signals**”.



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**Application for the Position of JRF under SERB project on  
Analysis of Cardiovascular Disorders using Heart Sound  
Signals**

1. Post Applied for : JRF-Junior Research Fellow

2. Name of the Candidate (BLOCKLETTER): \_\_\_\_\_

3. Father's Name (BLOCKLETTER): \_\_\_\_\_

4. Mother's Name (BLOCKLETTER): \_\_\_\_\_

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

(b) Sex (Male/Female/Other): \_\_\_\_\_

(c) Marital Status (Married/Single): \_\_\_\_\_

(d) Category (SC/ST/OBC/PWD/GEN): \_\_\_\_\_

6. Previous Research experience: (use additional sheet if required) \_\_\_\_\_

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

8. GATE/ NET (if any): Qualified (Yes/No): Score: \_\_\_\_\_ Rank: \_\_\_\_\_  
Specialization: \_\_\_\_\_ Year: \_\_\_\_\_

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Passport size  
Photograph

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

<b>Name of Exam Passed</b>	<b>Name of the School/College/Institute/ University</b>	<b>Year of Passing</b>	<b>Discipline/ Specialization</b>	<b>Percentage of Marks/ CGPA</b>



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10. (a) Address for Communication: (BLOCKLETTER)

(b) Contact No (Mob)  
(c) E-mail ID :

11. Contact Details of two referees:

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

12. Experience in Biomedical Data Acquisition and Biomedical Signal Analysis and Processing using MATLAB :

I do here by 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-** If any information is required, extra A4 sheet may be attached.