



DEPARTMENT OF ELECTRONICS & COMMUNICATION  
ENGINEERING  
NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA  
SURATHKAL, SRINIVASNAGAR - 575025, MANGALORE,  
KARNATAKA, INDIA

Ref No: NITK/E&C/MeitY-STIL/2022-23/A8  
Date: 15.07.2022

## Advertisement for Junior Research Fellow

Applications with complete biodata are invited for a temporary post of **Two Junior Research Fellow** to work under the research project funded under the “*National Language Translation Mission*” by Ministry of Electronics and Information Technology, Govt. of India. As a part of this role, the JRF will carry out cutting edge research in the area of speaker technologies. The work is carried out in collaboration with Indian Institute of Science will include data collection and development of robust speaker diarization systems for Indian languages. The JRF is expected to carry out high impact research, publish and present results in top conferences/workshops and journals in the area. Details follow.

**Project title and Reference No:** Speech Technologies in Indian Languages  
(Ref. No: NITK/E&C/MeitY-STIL/2022-23/A8).

**Co Principal Investigator:**

**Dr. Deepu Vijayasenan**

Department of Electronics and Communication,  
NITK Surathkal, Mangalore, India

E-mail: [deepuv@nitk.edu.in](mailto:deepuv@nitk.edu.in),

Phone: 0824-2473511 (Office), 0824-2474055 (ECE Department)

**Principal Investigators:**

Dr. Sriram Ganapathy, IISc

## Essential Qualifications

B.E/B.Tech in Electronics and Communication OR Computer Science OR Electrical Engineering with focus in Signal Processing and/or Machine Learning - minimum 70% aggregate percentage or 7.0/10 CGPA. Programming skills in Python and familiarity with Machine Learning is a must

**Age Limit:** 28 years.

## Desired Skills

- ML programming using pytorch tensorflow
- Worked in the area of image and/or speech processing

- Familiarity with scripting languages
- Ability to work in a team, good communication skills and experience in experimental research for fabrication of setup.

## Salary and Duration

- INR 31000 per month (consolidated) + HRA (as per norms).
- The selected candidate will be appointed initially for one year (on contract) and the services will be extended for next year based on the performance review and is co-terminus with the project. The candidate is encouraged to apply for M.Tech (R)/Ph.D, at NITK, Surathkal.

## How to apply

### Step-1:

You are required to fill-up the basic details through a google form link:

<https://forms.gle/wdUZEhac3RcqSMNk7>

### Step-2:

Duly fill the application form (page 4 to 6 of this document, a doc format is available [here](#) ) and take a scan. This, along with the scan of other documents (given as a checklist in the last page of the application), create a compressed/zip file. Name the file as “*yourFirstname\_Lastname\_JRF.zip*”

### Step-3

Send the zip file as an email attachment to [deepuv@nitk.edu.in](mailto:deepuv@nitk.edu.in) with subject line “*Application for JRF position NLTM\_MEITY\_EC-NITK*” **on or before 25<sup>th</sup> July 2022**

Written Test/Interview details will be emailed to suitable candidates only. TA/DA will not be paid for attending the interview. The position is available immediately.

## More about the Project

Total Duration: 3 Years (August 2021-August 2024)

The aim of the project is to develop a speaker diarization system for Multilingual speech. The major responsibilities include

- Quality data collection
- Data Curation and Annotation
- Working with state of the art tools in speech to develop speech non speech and diarization modules

The project is mainly in collaboration with Indian Institute of Science, Bangalore and is part of a speech consortium that consists of major premier institutes across India. Candidates are expected to collaborate across teams and contribute to the project.

---



DEPARTMENT OF ELECTRONICS & COMMUNICATION  
ENGINEERING  
NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA  
SURATHKAL, SRINIVASNAGAR - 575025, MANGALORE,  
KARNATAKA, INDIA

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

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/Open

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

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

Paste here a recent  
passport size  
photograph

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

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>

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

(b) Contact No (Mob):

(c) E-mail ID :

11 Contact Details of two referees:

	<b>Referee I</b>	<b>Referee II</b>
Name :		
Designation :		
Organization:		
Office Address :		
Office Phone Number:		
Email ID:		

12 Declaration:

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

Checklist (please tick the relevant documents and include it in the compressed file along with this application)

- Scanned copies of educational certificates and mark sheets from class X onwards
- Scanned copy of GATE Score Card (old GATE score is also considered).
- Scanned copies of Proof for research experience,
- Special achievements and publications, if any

**Note-** If any information is required, extra A4 sheet may be attached.