



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

Ref No: NITK/E&C/MEITy-STIL/2023-24/A8

Date: 03.11.2023

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 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/2023-24/A8).

Principal Investigator:

Dr. Deepu Vijayasanan

Department of Electronics and Communication,

NITK Surathkal, Mangalore, India

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Co-Principal Investigators:

Dr. Sriram Ganapathy, Dept. of Electrical Engineering, IISc Bangalore, Karnataka, India.

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

Salary and Duration

- As per Project policies + 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 PhD 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/EEts9tP85pS7GYDF7>

Step-2:

Duly fill the application form (page 4 to 6 of this document , a doc format is available here [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 with subject line “Application for JRF position NLTM_MEITY_EC-NITK” **on or before 10th December 2023.**

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.



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Application for the Position of Junior Research Fellow

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)_____

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photograph

8. 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

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

(b) Contact No (Mob):

(c) E-mail ID :

10. Contact Details of two referees:

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

11. Declaration:

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

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 copies of Proof for research experience
- Special achievements and publications, if any

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