



## राष्ट्रीय प्रौद्योगिकी संस्थान मेघालय

NATIONAL INSTITUTE OF TECHNOLOGY MEGHALAYA

(An Institute of National Importance under MHRD)

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Advt.No:NITMGH/ES/MISA/EC/87/2020-21/533

Date: 17.09.2020

**Recruitment of one position of Junior Research Fellow to work on a Research Project funded by Science and Engineering Research Board (SERB), Govt. of India, undertaken in the Department of Electronics and Communication Engineering, NIT-Meghalaya through online Walkin interview on 03-10-2020 from 10:00 am onwards.**

- 1. Name of the Temporary positions:** Junior Research Fellow (JRF) leads to PhD
- 2. Number of positions:** 01 (One)
- 3. Name of the Research Project:**"Masking of interfering sounds in a crowded environment for hearing aid applications "
- 4. Name of the Sponsoring Agency:***Science and Engineering Research Board (SERB), GOI, Reference No.EEQ/2018/001338*
- 5. Duration of the Project:** 17 months. The **initial appointment is for one year**, which is extendable up-to completion of the project or end of the project duration, whichever is earlier. The extension of engagement will be solely based on the performance of the candidate. During this extension, the candidate may be allowed to register for PhD under this work based on the eligibility as per the institute norms.
- 6. Job Description:** This work involves development of algorithm for increasing of speech intelligibility for hearing-impaired listeners in the presence of competing sounds. Identification of various features those distinguish interfering sounds from the target speech. Development of deep neural network (DNN) based algorithm to address this problem. A deep neural network is trained to estimate the mask for a target talker in the presence of competing sounds based on auditory processing model.
- 7. Salary :**Consolidated monthly compensation / Fellowship: Rs. 31,000/-per month
- 8. Accommodation:** Bachelor accommodation in the Institution hostels

**9. Essential Qualifications and experience:** M.E./M.Tech [GATE qualified] in Electronics and Communication or equivalent degree to perform requisite simulation and experimental work.

**10. Desirable Qualifications/ Experiences:** The candidate with sound knowledge in Signal Processing, Probability Theory and Linear Algebra is preferred. Programing skills in C++/MATLAB/PYTHON will be given added preference.

**Terms and Conditions:**

1. The above position is purely contractual for a period of 01 year.
2. **Candidate must email the scanned copies of self attested documents to the following email ID: chvramarao@nitm.ac.in on or before 02-10-2020 by 5 PM.**
3. The selected candidate should join within a week from the date of intimation of selection and all original documents should also be submitted for verification.
4. For any clarifications

**Sd/-**

**Dr. Ch. V. Rama Rao**

**Principle Investigator (SERB, DST Sponsored project)**

**Assistant Professor, Department of EC**

**NIT Meghalaya, Email: chvramarao@nitm.ac.in**

**Mobile: 9485177069**