



राष्ट्रीय प्रौद्योगिकी संस्थान मेघालय

NATIONAL INSTITUTE OF TECHNOLOGY MEGHALAYA

(An Institute of National Importance under MHRD)

Bijni Complex, Laitumkhrach, Shillong-793003

Ph. 0364-2501294, FAX 0364-2501113

Website: <http://2018nitm.nitmeghalaya.in/>

Advt.No: NITMGH/ES/SERB-DST/MISA/EC/87/2018-19/3647

Dated: 25.03.2019

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 Walkin interview on 12-04-2019 from 9:30 am onwards in the Communication Systems lab at NIT Meghalaya, Bijni Complex, Laitumkhrach, Shillong – 793003.

- 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:** 03 Year. Though the project is of three years duration, 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.
- 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 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. No TA/DA will be paid for attending the interview or for joining.
3. Candidate must come with all original documents and submit his/her signed hard copy of the application and self attested copies of documents at the time of interview. All original documents should also be submitted for verification if selected.
4. The selected candidate should join within a week from the date of intimation of selection.
5. For any clarifications

Sd/-

Dr. Ch. V. Rama Rao

Principle Investigator (SERB, DST Sponsored project)

Assistant Professor & HoD, Department of ECE

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