INDIAN INSTITUTE OF TECHNOLOGY PATNA, BIHTA
PATNA-801106

RESEARCH & DEVELOPMENT UNIT

ADVERTISEMENT NO: **DATED: 20/03/2023**

Applications are invited in the prescribed format only for the following assignment in a purely time bound research project undertaken in this institute.

1. **(a) Name of the post**   : Junior Research Fellow (JRF)

   (b) Number of Post   : 1

   (c) Duration of the Post   : Initially for 1 year and can be extended on performance basis

   Name of the research projects:

   "Pathological Speech and Video Based Behavior Analysis for Smart Healthcare"

   Brief introduction of project:

   Pathological speech and video-based behavior analysis involve using machine learning / Deep learning algorithms and computer vision techniques to analyze patterns and changes in speech and behavior for monitoring and detecting conditions such as Parkinson's disease, Dysphonia, Laryngitis, and other speech related disease. By analyzing speech signal features, a model can be developed for healthcare service providers which can monitor the disease and able to detect in the preliminary stage of disease.

2. **Name of the Sponsoring Agency**   : TIH, IIT Patna

3. **Consolidated Fellowship**   : Rs. 31000.00/-PM

4. **Qualifications & Experience**:
   - For candidates with Master's degree level in the following selected disciplines: Electronics & Communication Engineering, Computer Science and Engineering, Electrical, Signal Processing, Instrumentation Engineering Technology.
   - Work/ research experience in the field of Biomedical Signal Processing/ Machine learning/ Deep Learning will be given preference.
   - First class (minimum 65% marks or 7.0 CPI) in M.Tech./ME/MS with GATE/NET qualifications and first class (minimum 60% marks or 6.5 CPI) in B.Tech./BE, 12th and 10th class.
   - For candidates with only having B. Tech./BE as qualifying degree in the following selected disciplines (Electrical Engineering, Electronics and Communication, Computer Science and Engineering, Instrumentation, or related stream), 75% marks or 8.0 CPI in B.Tech./BE from reputed institutes other than IITs/IISc and 7.0 CPI in B.Tech. from IITs and IISc with valid GATE score and first class (minimum 60% marks or 6.5 CPI) in 12th and 10th class.
   - The age should not exceed 28 years for a candidate with BE/B.Tech/M.Sc. degree as the highest qualification and 32 years for a candidate with ME/M.Tech/MS degree as the highest qualification.
   - Relaxations for SC/ST/OBC/women/PD will be given as per the GoI rules.

Interested and eligible persons may apply with up-to-date resume, showing educational qualification (% of Marks obtained from 10th onwards), Experience, Publications, Achievements, Names of two referees. Applicants need to fill the google form and the application form, attached below, and send the scanned copy of application and resume (pdf) mentioning the "post applied for" to the email ids: **pkumar@iitp.ac.in.** Please use the file name as:

firstname_lastname.pdf.

Link of Google form: https://forms.gle/6BtCxjU9Zz8unAVb9

(Google form filling is mandatory for each candidate)

Last date of receiving application: 05.04.2023

Last date of sending information to the shortlisted candidates: 05.04.2023

Date of Interview: 07.04.2023

- After the short-listing, the candidates will be informed accordingly to appear for the written test/ interview. No TA/ DA is admissible for appearing in the written test/ interview.
- He/ She may be considered for extension for next one year (or till the last date of project), and/ or admission in PhD program at IIT Patna (B.Tech. student can take admission in M.Tech.) based on the performance review.

For any query contact Investigator(s): **Prof. Preetam Kumar, Professor, Department of Electrical Engineering, IIT Patna, Emails: pkumar@iitp.ac.in**

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FORMAT OF APPLICATION FOR "JRF/ SRF/ Project Research Assistant"

Name & Address Including email id and Phone no. (for Correspondence)	Category (GEN/OBC/SC/ST/PD)	DOB dd/mm/yy	Professional Exam.(GATE/CSIR-NET, etc)& Validity
NAME IN CAPITAL Address: Phone: Email:			

Educational Qualification

Institute/ Board	Exam Passed	Year of Passing	% of Marks/CPI
	10thClass		
	12thClass		
	Bachelors(B.Sc/B.Tech/B.E./BCA) or equivalent		
	Masters(M.Sc/M.Tech/M.E/MCA/MA) or equivalent		

Qualifying degree	Degree/major/Specialization
(B.Sc/B.Tech/B.E./BCA)	
(M.Sc/M.Tech/M.E/MA/MCA)	
Others	

Signature of applicant

Date:
Place: