सूक्ष्म कणिका एवं संचार अभियंत्रण विभाग
Department Of Electronics & Communication Engineering
मोतीलाल नेहरू राष्ट्रीय प्रौद्योगिकी संस्थान इलाहाबाद
MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY ALLAHABAD
इलाहाबाद- 211004
ALLAHABAD-211004

Advertisement No- EC BK 02 /2022/Project Staff   Dated-08.08.2022

Advertisement for the Post of Junior Research Fellow (On Contract)

Applications are invited from Indian nationals for the post of Junior Research Fellow (on contract) in research project entitled **"An IoT enabled portable device for OND/ ONSD based automated detection of Intracranial Pressure (ICP) through ocular USG imaging"**, sanction letter no. TDT/BDTD/22/2021/General, dated 18/03/2021, sponsored by DST, Government of India.

The duly completed application (soft copy in any form) on prescribed format along with scanned copies of supporting documents must reach to email id: singhbasant@mnnit.ac.in(email id of Dr Basant Kumar, Electronics and Communication Engineering Department) with the subject of the email as "Application for JRF (on contract) in "BDTD Project" on or before **29/08/2022, 5.00 PM (IST)**.

Description and Objectives of the Project: The aim of this project is to build a state-of-the-science IoT (Internet of Things) enabled embedded system to automatically compute OND and ONSD for detecting elevated ICP (Intracranial pressure). This will involve -development, refinement and validation of automated ultrasound image-based novel algorithms to automatically detect and compute OND and ONSD. The developed algorithms will be incorporated into an IoT embedded system module which can be interfaced with a portable USG machine for automated measurement of ONSD and ICP.

The position is purely temporary and will be governed by the funding agency rules & service conditions of Office of the Dean (Research & Consultancy), MNNIT Allahabad.

Number of Position	:	1 (One)
Essential Qualifications	:	M. Tech. / M.E. in Electronics Engineering/ Electronics and Instrumentation Engineering / Signal Processing / Embedded Systems
Fellowship	:	Rs. 31,000.00 per month (Consolidated)
Desirable Experience	:	One year research experience in the area of image/ video processing, medical imaging, IoT etc.
Other Benefits	:	Accommodation may be available as per the availability and the Institute norms. Candidate selected for the JRF may register for Ph.D. if eligibility conditions, as set by institute, is met by him/her. Facility of yearly leave, carryover leave, medical benefits etc. may be available as per applicable rules of the project staff

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Age Limit	:	28 years on the last date of application (The upper age limit is relaxable up to 5 years in the case of candidates belonging to SC/ST/OBC/PH and women candidates)
Tenure of Appointment	:	Appointment will be made on contract basis for a period of one year initially, which may be extended depending on the performance evaluation on yearly basis till the end of project. Project will end in March 2024.

Note:

1. The applicant will be responsible for the authenticity of information, other documents and photographs submitted.

2. The Institute reserves the right to accept application at any time, and consider candidates of exceptional credentials without applications.

3. Qualification and experience may be relaxed by the Institute at any point of time for otherwise exceptional candidates. Mere, possessing the prescribed qualification does not ensure that the candidate would be called for Interview. The Candidates will be shortlisted on the basis of merit and need of the project.

4. Shortlisted Candidates will be informed by e-mail about the interview date. So, the candidate must provide valid E -mail IDs in their applications.

5. Shortlisted candidates have to present themselves for the interview on the interview date with updated CV, publications if any, and original and attested photocopies of mark sheets/ certificates in support of their academic qualifications. **The mode of interview (physical/online) will be informed to the shortlisted candidates via the email id provided in the application form**.

6. Applicants in employment (private, government or any other organization) are required to submit a "**No Objection Certificate**" from the employer at the time of interview.

7. No TA/DA will be paid for appearing in the interview (In case of interview in physical mode)

Name of Principal Investigator	:	Dr. Basant Kumar
Designation	:	Associate Professor
Department	:	Electronics and Communication Engineering

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APPLICATION FORM

Advt.No........................   Dated........................

Research Project Entitled	An IoT enabled portable device for OND/ ONSD based automated detection of Intracranial Pressure (ICP) through ocular USG imaging
Sanction letter & Date	Letter no. TDT/BDTD/22/2021/General, dated 18/03/2021, sponsored by DST, Government of India
Funding Agency	Government of India, Ministry of Science and Technology, Department of Science & Technology (BDTD Programme of TDT Division)
Name of P.I.	Dr. Basant Kumar
Name of Position	Junior Research Fellow (on contract)
Department/Section	Electronics & Communication Engineering

Self Attested recent passport size Photograph

1.	Name of the Candidate (In Capital letter)	
2.	Sex (Male/Female)	
3.	Marital Status (Married/Unmarried)	
4.	Date of Birth	
5.	Age as on last date of application	_____Years _____Months _____Days
6.	Father's/Husband's Name	
7.	Present/Contact Address	
8.	Permanent Address	
9.	Mobile No.	
10.	E-mail	
11.	Nationality	
12.	Category	Gen/SC/ST/OBC/PH _____(enclosed attested copy of certificate) and women
13.	GATE	Valid up to_____Score/Rank_____
14.	Educational Qualification	

Qualification	Subject/Discipline	Board/Institute/Univ.	Year	% of marks	Division
10th or equivalent					
12th or equivalent					
Diploma, if any					
BA/B.Sc./B.E./B.Tech.					
M.A./M.Sc.					
M.Phil./M.E./M.Tech*					
Ph.D*					

*Title of M.E./M.Tech. Thesis: ....
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15.	Details of Experience in chronological order. Enclose a separate sheet duly authenticated under your signature if necessary							
	Organization	Position	Salary/ Emoluments	Nature of Duties	Nature of appointment	Period of Experience		
						Year	Month	Days

16.	Research Publications (Attach list):-	Numbers :	
SCI Journals :			
Non SCI Journals :			
International Conference/Seminar ./ Symposium Proceeding :			
National Conference/Seminar ./Symposium Proceeding :			
17.	Any other information		
18.	Indicated whether you propose to register for higher degree* at MNNIT, Allahabad. Yes/No (Name of degree is Ph.D)		

Note:- *Those candidates who wish to be admitted as student for higher degree (Ph.D.) must fulfill at least the minimum eligibility for the respective admission as available on the Institute website.

DECLARATION

I hereby declare that all the statements made in this application are true and complete and nothing has been concealed/ distorted. I am aware that, if at any time I am found to have concealed/distorted any material information, my engagement is liable to be summarily terminated without notice.

Place:

Date:

(Signature of the Applicant)

Enclosure-   Self attested copy of documents
1. Proof of Date of Birth
2. Mark sheets & certificates of all the examination passed
3. Category Certificate, if applicable
4. GATE score card, if passed
5. Experience certificate, if any