Advertisement No.- 684/2024/Project Staff/ECED　　　　　　　　**Dated**-04/10/2024

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 "Design and development of ML based adaptive optimal control algorithms for efficient regulation of the Wheeled Robots for Disaster Response" sanction letter no. **CRG/2023/004912** dated 18/01/2024 sponsored by SERB, GOI, New Delhi.

The duly completed application on prescribed format along with copies of supporting documents must reach to: **Office of the Dean (Research & Consultancy), Motilal Nehru National Institute of Technology Allahabad, Prayagraj -211004** on or before **24/10/2024**. The envelope should be superscribed as "Application for the post of Junior Research Fellow (JRF) (on contract) in the SERB- CRG research project "Design and development of ML based adaptive optimal control algorithms for efficient regulation of the Wheeled Robots for Disaster Response". **A soft copy of the application should also be sent to sumit-k@mnnit.ac.in** (email address of Dr. Sumit Kumar Jha, Assistant Professor, Department of Electronics and Communication Engineering & Principal Investigator) with the subject of the email as "Application for JRF (on contract) in SERB-CRG Project" **on or before 24/10/2024, 5.00 PM (IST).** The positon is purely temporary and will be governed by the funding agency rules and service conditions of Office of the Dean (Research & Consultancy), MNNIT Allahabad.

Description and Objectives of the Project: The aim of this project is to develop machine learning/RL based AOC algorithms for wheeled robot motion control which will achieve faster convergence, improved stability criteria, low energy consumption, and lower memory requirement. Further, these new algorithms would be subsequently implemented on the wheeled robots and would be analyzed for a significantly efficient wheeled robotic locomotion in terms of improved performance characteristics while performing disaster response activities.

Number of Position :	1 (One)
Essential Qualifications :	Graduate / Post Graduate Degree in Professional Course (in electronics/electrical and other relevant specializations) selected through a process described through any one of the following: a. Scholars who are selected through National Eligibility Tests - CSIR-UGC NET including lectureship (Assistant Professorship) and GATE. b. The selection process through National level examinations conducted by Central Government Departments and their Agencies and Institutions such as DST, DBT, DAE, DOS, DRDO, MoE, ICAR, ICMR, IIT, IISc, IISER, NISER etc.
Fellowship :	Rs 31,000 per month (Consolidated) + 16% HRA (as per the Institute norms).
Desirable Experience :	Research experience in the area of machine learning/robotics/system analysis/signal processing 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.
Age Limit :	As per the DST-SERB guidelines.
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 January 2027.

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.

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.

Name of Principal Investigator :   Dr. Sumit Kumar Jha

Designation   :   Assistant Professor

Department   :   Electronics and Communication Engineering

Department Of Electronics & Communication Engineering
MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY ALLAHABAD
PRAYAGRAJ-211004

APPLICATION FORM

Advt.No.- 684/2024/Project Staff/ECED   Dated……………………

Research Project Entitled	**Design and development of ML based adaptive optimal control algorithms for efficient regulation of the Wheeled Robots for Disaster Response**
Sanction letter & Date	Santion order no.: CRG/2023/004912, dated 18/01/2024
Funding Agency	Science and Engineering Research Board (SERB), New Delhi
Name of P.I.	Dr. Sumit Kumar Jha
Name of Position	Junior Research Fellow (on contract)
Department/Section	Electronics & Communication Engineering

Paste 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.	NET/GATE	A. GATE: Yes/No; Year:………Roll No…………………..Score/Rank…………… Valid upto…………… B. NET : Yes/No; Year:………Roll No…………………..Score/Rank…………… Valid upto……………
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: …………………………….………………………...…………………………….

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.)		

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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: (Signature of the Applicant)
Date:

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