



विद्युत अभियंत्रण विभाग / Electrical Engineering Department  
मोतीलाल नेहरू राष्ट्रीय प्रौद्योगिकी संस्थान इलाहाबाद, प्रयागराज, (भारत) -२११००४  
Motilal Nehru National Institute of Technology Allahabad, Prayagraj, (India)-211004

Advertisement No-

Dated:

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

**Walk In Interview**

Applications are invited from Indian nationals for the post of **Junior Research Fellow (JRF) (on contract)** in research project entitled “*Coordinated Operation of Cloud-hosted Digital Twin for Hydrogen Electrolyzers*” Sanction order No. EEQ/2023/00920 sponsored by SERB, DST, Gov. of India.

The duly completed application on prescribed format along with scanned copies of supporting documents must reach via email to: [navneet@mnnit.ac.in](mailto:navneet@mnnit.ac.in) (email address of **Dr. Navneet Kumar Singh, EED**) with the subject of the email as "Application for JRF (on contract) in SERB-EEQ Project" on or before **April 30, 2024, 11.59 PM (IST)**.

**Description and Objectives of the Project:** This project investigates the role of Power-to-Hydrogen (P2H) infrastructure in balancing the large capacity of curtailed renewable power generation and providing flexible services to ensure reliable, resilient, and cost-effective operation of electricity networks in India. The following areas will be the key focus of this project – (a) Identification and assessment of potential services using hydrogen electrolyzers as a flexibility service provider in weak grids, (b) Modelling and development of cloud-hosted digital twin for a grid-integrated hydrogen electrolyzer, and (c) Contingency analysis of grid-integrated hydrogen electrolyzers in a large-scale power system network.

The position is purely temporary and will be governed by the funding agency rules & service conditions of the Office of the Dean (Research & Consultancy), Motilal Nehru National Institute of Technology Allahabad, Prayagraj-211004 (U.P.) India.

- Number of Position** : 1 (One)
- Essential Qualifications** : • M.E./M. Tech (or equivalent) in Power System or allied relevant branches or B.E./B. Tech (or equivalent) in Electrical Engineering or allied relevant branches  
• Qualification in *GATE* (in Electrical Engineering stream).
- Desirable Experience** : Research experience in renewable power generation, Matlab/ PSCAD Simulations of Hydrogen Electrolyzer
- Fellowship** : **Rs. 31,000.00** per month (Consolidated) + HRA (16%)
- 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 the institute (CPI 6.5 or 60% marks in M. Tech. (or equivalent) and CPI 8.0 or 75% marks in M.Sc./B.E./B.Tech (or equivalent)) is met by the candidate. Facility of yearly leave, medical benefits, etc. may be available as per applicable rules for the project staff.
- Age Limit** : As per the DST-SERB guidelines.
- Tenure of Appointment** : The appointment will be made on a contract basis for a period of one year initially, which can be extended depending on the performance evaluation on yearly basis till the end of the project.



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### 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.
4. 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.
5. Shortlisted Candidates will be informed by e-mail about the interview date. So, the candidate must provide valid e- mail IDs in their applications.
6. Shortlisted candidates have to present themselves for the interview on the interview date with updated CV and original and attested photocopies of mark sheets/ certificates in support of their academic qualifications.
7. 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.
8. No TA/DA will be paid for appearing in the interview.

**Name of Project Investigator (PI) : Dr. Navneet Kumar Singh**

Designation : Assistant Professor

Department : Electrical Engineering



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**For office use only**

**APPLICATION FORM**

Application No.....

**Advt. No**.....

**Dated** .....

**Research Project Entitled-** *Coordinated Operation of Cloud-hosted Digital Twin for Hydrogen Electrolyzers*

**Sanction letter &Date-** EEQ/ 2023/ 00920

**Funding Agency-** SERB, DST, Gov. of India

**Name of P.I. -** Dr. Navneet Kumar Singh

**Name of position-** Junior Research Fellow (JRF) (on contract)

**Department/Section-** Electrical 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/PwD _____ (enclosed attested copy of certificate)					
13.	NET/GATE/etc.	Valid up to _____ Score/ Rank _____					
14.	Educational Qualification						
	<b>Qualification</b>	<b>Subject/Discipline</b>	<b>Board/Institute/Univ.</b>	<b>Year</b>	<b>% of marks</b>	<b>Div.</b>	
	10th						
	12th						
	Graduation (B.Tech/BSc/Other)						
	Post Graduation (M.Tech/MSc/Other)						
	Other						

*Navneet Kumar Singh*



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\*Title of U.G/ P.G. Thesis: .....

15.	Details of Experience in chronological order. <b>Enclose a separate sheet</b> duly authenticated under your signature, if necessary.							
	<b>Organization</b>	<b>Position</b>	<b>Salary/ Emoluments</b>	<b>Nature of Duties</b>	<b>Nature of appointment</b>	<b>Period of Experience</b>		
						<b>Year</b>	<b>Month</b>	<b>Day</b>
16.	Research Publications (Attach list): - if any					Numbers:		
	(i) Research Publications							
	(ii) International/ Conference/ Seminar/ Symposium Proceeding							
	(iii) National Conference/Seminar /Symposium Proceeding							
17.	Any other information (e.g. write-up stating the applicant's suitability for the project in ~ 300 words as a separate annexure) [Optional]							
18.	Indicate whether you intend to register for higher degree* at MNNIT, Allahabad. Yes/ No (Name of degree)							

### 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:

**Enclosures-** 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. NET/GATE, etc. score card
5. Experience support, if any