विद्युत अभियंत्रण विभाग
मोतीलाल नेहरु राष्ट्रीय प्रौद्योगिकीसंस्थान
प्रयागराज– 211004 (भारत)

Department of Electrical Engineering
MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY ALLAHABAD
Prayagraj – 211004 (India)

Advertisement No-08/2020/Project Staff **Dated-** 08-05-2020

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 "Integrated Renewable Resources and Storage: Operation and Management", This is a collaborative research project, jointly funded by the Department of Science and Technology (DST) for Indian side and the Research Council of Norway (RCN) for Norwegian side.This project is a consortium of academic institution: UiA along with research company: NORCE in Norway, and academic institutions: MNNIT Allahabad, IIT Kanpur/MMMUT Gorakhpur and NIT Raipur in India.

The duly filled-in application (soft copy in any form) in prescribed format along with copies of supporting documents (scanned copy) must reach to email ID: **richa@mnnit.ac.in** [Prof. (Dr.) Richa Negi] with subject of email as: "Application for JRF position in Indo-Norway project" on or before 11:59 PM, 5th June,2020. 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.

Project Description:

There is a need for research on flexible interconnection and use of multiple energy forms (wind and solar PV), resiliency of the energy supply and semantic interoperability between different energy subsystems and demand. An increased amount of roof top PVs, and even energy storages (both electrical and thermal), demand side management, heat pumps will pose technical challenge in the distribution network due to change in load flow patterns, the power quality issue, protection, and the voltage, frequency and reactive power control.

Additionally, these multi-interconnected energy resources will inevitably rely on the internet or other network communication of large-scale for part of their operation. The collective research effort on cyber security and physical security have been striding fast and fostering a new area of cyber-physical security for the smart grid. The project objectives are defined under work packages, each lead by these institutions.

The research studies will be in the lines of monitoring and assessment of micro grid and emerging cyber-physical aspects, optimizing the distribution network utilization with energy management, and design of intelligent distribution grids.

Objectives of the Project:

The main focus of this work package is on research in the area of networked, distributed and cooperative control. The work package lead by MNNIT Allahabad will focus in the direction of design at control levels and communication between the energy resources in the form of networked control systems.

Number of Position	:	1 (One)
Essential Qualifications	:	M.Tech. with specialization in Power System/Control & Instrumentation/Power Electronics having qualified GATE examination in Electrical Engineering.
Desirable Experience	:	One year research experience in related area along with relevant publication if any.

Additional Requirements : The following additional requirements will be advantageous:

- Programming skills (Matlab, DigSilient).
- Strong academic skills in publication of research papers in International Journals and/or previous experience in company dedicated to smart grid products development.
- Experience in working on real-time simulators, particularly Opel-RT

Fellowship : ₹ 25,000.00 + HRA per month (Consolidated)

Other Benefits :

Accommodation may be available as per the availability and the Institute norms.

- The candidate may be enrolled in the PhD programme in the Department of Electrical Engineering, MNNIT Allahabad as per existing rules.Facility of yearly leave, carryover leave, medical benefits etc. may be available as per applicable rules of the project staff.

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.

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. Qualification and experience may be relaxed by the Institute at any point of time for otherwise exceptional candidates.
3. 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 and original and attested photocopies of mark sheets/ certificates in support of their academic qualifications. Due to COVID-19, mode of interview for selection process will be informed to candidates on 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 at MNNIT Allahabad

Name of Principal Investigator : Dr. Richa Negi
Designation : Professor
Department : Electrical Engineering