

DEPARTMENT OF ELECTRICAL ENGINEERING
INDIAN INSTITUTE OF TECHNOLOGY ROORKEE
ROORKEE-247667, UTTARAKHAND, INDIA

Advertisement for Post Doctoral Fellowship Position

The Department of Electrical Engineering, Indian Institute of Technology Roorkee, invites applications from enthusiastic researchers for a post-doctoral fellowship position under the mentorship of Prof. Manoj Tripathy, Professor, Department of Electrical Engineering focused on “*Building Greater Cyber Resilience in Renewable Microgrid-SCADA System*”.

Minimum Qualification and Experience

Essential Qualification:

1. First Class Ph.D. degree in the Area of Electrical Engineering (*in Automation/ Cybersecurity for Microgrid/Electrical Networks*)/Electronics Engineering/Computer Science Engineering/ Electrical and Computer Engineering degree from a recognized University/ Or Equivalent Project-relevant experience with minimum 2-3 first-author research publications in SCI-indexed (Preferred in IEEE Journal) in the field of Cybersecurity for Microgrid Control/Protection area.
2. The upper age limit for the fellowship is 35-36 years at the time of the submission of the application; the age will be calculated by taking the date of closure of the respective call.

Desirable qualification:

The prospective candidate is expected to have a strong background in one or more areas within cybersecurity of Microgrid: SCADA operation and PLC programming, Python programming, MATLAB programming, C/C++ Linux programming, knowledge of Kali Linux, Metasploitable Framework, Nmap, Network Simulator version3 (NS3)/ Snort, Raspberry Pi, modelling various attacks like MITM, DoS, FDI, FCI, Replay, Spoofing, AI/ML techniques and Power analysis tools, and expertise impact of a successful cyber-attack and risk assessment. Candidate should be passionate about working on cutting-edge research leading to patents and high-impact publications. Other research activities may include participating in research discussions with overseas universities and research centres. Excellent speaking and writing skills in English, experience in manuscript writing.

**Candidates who have recently submitted their thesis are also eligible to apply subject to the condition that they should furnish proof of the award of a PhD degree at the time of interview at IIT Roorkee if short-listed.*

Duration and Fellowship amount:

The duration of the fellowship will be 2 years. The candidate is expected to join the Department as soon as the offer letter is received. A consolidated fellowship of Rs. 80,000.00 per month and a contingency of Rs. 50,000.00 per annum will be admissible to the Post Doctoral Fellow.

How to apply:

Candidates need to apply only by email with a cover letter mentioning the Advt. No. and date, curriculum vitae, two reference letters **, list of publications (**highlighted with the most relevant publication(s) for the post**), and research statement describing past research and plans for further research in the context of focus for which the post is being advertised (mandatory) to Prof. Manoj Tripathy at manoj.tripathy@ee.iitr.ac.in. All documents should be combined as a **single PDF file**.

**** Please ask two experts in your research area to send their reference letters directly to the above-mentioned Email-ID.**

Notes:

- (i) Post Doctoral Fellows (PDF) will be registered as students and may avail facilities of library, computer center, available hospital facilities etc. He/ She will be entitled to 2.5 days of leave per completed calendar month. No carry forward for leave will be allowed beyond a calendar year. PDF positions are purely temporary.
- (ii) The screened candidates will be called for an offline/online mode interview.

Prof. Manoj Tripathy
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