

Advertisement

Applications are invited from bright, motivated and qualified candidates for the project entitled “PV-based Fast EV Charger for Optimized Battery Performance”.

Name of the Post: Post-doctoral Fellow

Duration: 1 year (may be extendable to one more year based on the performance)

Remuneration: INR 50000/- per month plus HRA INR 10,000/- (if on-campus accommodation is not available)

Qualification: Ph.D. in Electrical/ Electronics/ Chemical/ Computer science/ Mechanical Engineering, and related disciplines, with good scientific publications and a zeal to develop India centric green energy solutions. Candidates who have submitted their thesis may also apply. Experience in power electronics hardware, design and control using FPGA/DSP, know-how of power engineering simulations and programming in MATLAB, SIMULINK, PSIM, LT SPICE, etc.

Job description: The candidate will work on design and development of an EV charger wherein a power electronics converter will be controlled to provide fast charging without compromising battery lifetime. This project will interface photovoltaic energy conversion and battery energy storage by ensuring optimised design and operation for Indian ambient and power grid conditions. Use of data-driven modelling and control will be central to the problem to ensure high accuracy, efficiency and reliability of the system.

Application Procedure: Interested researchers should send the following documents via email to pallavib@iitgn.ac.in:

1. CV containing all qualifications, research experience, research skills, list of publications, and contact details.
2. Transcripts of course work in undergraduate, post-graduate, and Ph.D degrees.
3. A summary (1-page) of previous research experience and motivation to apply for stated project.
4. Names and contact details of 2 referees.

Deadline for submission of application is **15th December 2022**, or until the position is filled. The selection will be based on the online/offline interview and the shortlisted candidates will be intimated regarding the date and time of the interview via email.

For any queries, contact Dr. Pallavi Bharadwaj via email (pallavib@iitgn.ac.in).