



INDIAN INSTITUTE OF TECHNOLOGY BOMBAY POWAI, MUMBAI 400076.

Advertisement No.: IRCC/EXT220/2022

Job Title

Junior Research Fellow

Job Reference Number

50362543

Application End Date

14.10.2022

Type of Employment

Proj. Staff Contract

No. of Position(s)

3

IITB Project Recruitment:

Project title: Sustainable Energy system for Achieving Novel Carbon neutral Energy communities (SUSTENANCE)

About the project: The project is focused on field demonstration of sustainable energy system, which includes EV integration, solar PV generation, abttery energy storage system, EV charger development, multiutility heatpump and micro wind turbine development

Essential Qualifications & Experience:

Post Graduate Degree in Basic Science OR Graduate / Post Graduate Degree in Professional Course 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, MHRD, ICAR, ICMR, IIT, IISc, IISER etc.

Job Profile:

Position-1: The candidate will be required to work on Electric vehicle integration including simulation and hardware work. The candidate should be from electrical power background, preferably with Master degree. Candidates with experience of modelling, electrical power related hardware hands on, hardware in loop (HIL), Digital simulator (Opal-RT, RTDS, Typhoon HIL, FPGA) and other related experience will be preferred. The selected candidate may need to work on some of the field implementation related work of EV charger installation.

Position-2: The candidate is expected to work on modelling and analysis of a hybrid solar PV-wind power-battery energy storage system. Further a labs scale hardware set up followed by field level implementation work related work is likely to be part of the job profile. The candidate should be from electric power background, preferably with masters degree in power related area

Position-3: Helping in Designing and Developing Sustainable Energy System for Achieving Novel Carbon Neutral Energy communities (SUSTENANCE), coordinate purchase of materials and instruments, get the prototypes fabricated, test the prototypes, preparation of report and presentation

for development of Multi-Utility Heat Pump for Rural Applications, MUHP_RA & Micro Windmills, LSM_WTG.

Pay Details:

Consolidated salary Rs.31000/- p.m. + HRA

General information:

The position is temporary for a period of 1 year and tenable only for the duration of the project. The appointment is for time bound project and the candidate is required to work mainly for the successful completion of the project. The selection committee may offer lower or higher designation and lower or higher salary depending upon the experience and performance of the candidate in the interview.

Candidates called for interview will be required to attend at his/ her own expenses.

For any queries/clarification please contact: recruit@ircc.iitb.ac.in