Recruitment of JRF and RA-II in School of Materials Science and Technology, IIT (BHU), Varanasi

Applications are invited for the following research positions with respective monthly emoluments under the ANRF-sponsored project titled **"Zn-Air Battery: Te-MobiX: Safe and Degradation-controlled Batteries with Efficient Charging for Tropical e-mobility Excellence",** (Project No.- R&D/ANRF/4211/MAHAEV/EE/25-26/679-AKM) funded under the Mission for Advancement in High-impact Areas (MAHA), Government of India, sanctioned up to May 2028. HRA will be provided as per the institute's rules if accommodation inside the campus is not provided. The appointments will be purely temporary and co-terminus with the project. The candidates should possess essential qualifications. All things being equal, SC/ST candidates will be preferred as per GOI rules.

Research Positions Details:

Junior Research Fellow (JRF)

Total number of positions: 01

Project tenure: ~3 Years

Monthly Emoluments: Rs. 37,000/- + 20% HRA

Essential Qualification: Post Graduate Degree (M.Sc.) in Science (Physics/Chemistry/Materials Science) OR Post Graduate Degree (M.Tech or equivalent) in Engineering (Materials Science/Chemical Engineering/Nanotechnology and related field). Candidate also needs to fulfill the following criteria-

a. Qualified GATE with valid GATE score OR CSIR-UGC NET-JRF.

b. Minimum 60% or equivalent CGPA in M.Sc./M.Tech.

Upper Age Limit: 28 Years (Exception can be made for exceptional candidates).

Desirable Criteria:

- Experience in nanomaterial synthesis through chemical and physical route.
- Knowledge of electrochemistry and materials characterization techniques such as XRD, SEM, TEM, Raman etc.
- Candidates interested to extend their JRF to Ph.D. will be preferred.

Application Process for JRF: Fill out the following Google form on or before **20-09-2025**.
https://forms.gle/nTAbp6f4Xv889xCo7

Research Associate-II (RA-II)

Total number of positions: 01

Project tenure: ~3 Years

Monthly Emoluments: Rs. 61,000/- + 20% HRA

Essential Qualifications: Completed Ph.D. in Physics/Chemistry/Materials Science/Chemical Engineering/Nanoscience & Nanotechnology

Upper Age Limit: 35 years; relaxable up to 5 years in case of applicants belonging to scheduled castes/scheduled tribes, physically handicapped and women applicants, whereas 3 years in case of OBC (NCL) candidates.

Desirable Qualifications:

- Minimum 2 publications as first/corresponding author in SCI journals.
- Ph.D. in the field of electrochemistry, batteries and hydrogen generation.
- Hands on experience of electrochemical system, OER/ORR/HER study.
- Knowledge of coin/pouch/prismatic cells design of batteries/supercapacitors.
- Experience of characterization techniques like XRD, Raman, FTIR, UV-vis absorption spectroscopy, XPS, SEM and TEM techniques.

Application Process for RA-II: Fill out the following Google form on or before **20-09-2025**.
https://forms.gle/xUxVQGPtEAbPUQ1k8

Note- The date and time of the interview will be communicated to shortlisted candidates only via email.

General Terms and Conditions:

1. The position is purely temporary and is conterminous with the project.
2. The PI has the discretion to restrict the number of candidates to be called for interview to a reasonable limit on the basis of qualifications and experience higher than the minimum prescribed in the advertisement.
3. Only shortlisted candidates will be communicated to appear in the interview and no other communications in this regard will be entertained.
4. The candidate is expected to join immediately, if selected.
5. No TA/DA will be paid for attending the interview.

The recommendation of the committee will be final. The candidates should fill out the application form via the following Google link. The applications should be submitted via Google Form only before the deadline.

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