



राष्ट्रीय प्रौद्योगिकी संस्थान, दुर्गापुर
National Institute of Technology Durgapur
Mahatma Gandhi Avenue, Durgapur-713209
West Bengal, INDIA, www.nitdgp.ac.in \\
(An Autonomous Institution of the Govt. of India under MHRD)

Advt. No.: NITD/SRCC/AKC/PHY/2021/30/Recr/03

Date: 19/06/2023

Advertisement for a Post-doctoral Research Associate

Description of the post:

Applications are invited from eligible Indian citizens for a Research Associate in the SERB (DST) funded Project (IPA/2021/000048). The candidates will work primarily at NIT Durgapur as members of a collaborative team from departments of Physics, Chemical Engg. & CoE in Advanced Materials. The project is a multi-institute multi-investigator and multi-disciplinary project in close collaboration with IIT Bombay (Energy Science & Engg.) and VNIT Nagpur (Electrical Engg.) and is funded under the special call of SERB for IRHPA (Intensification of Research in High Priority Areas). The main goal of this project is to develop low-cost new electrode materials for Sodium ion hybrid capacitor/battery with improved electrochemical performance (energy density, cycling stability, rate capability, etc.) for eventual development of a smart off-grid renewable and sustainable energy storage management system.

Sl. No.	Name of the post, no. of vacancy, duration and amount of fellowship	Required Qualifications
1	Research Associate (RA)- II Vacancy: 01 Duration: Initially 01 year with provision for renewal for upto two more years (subject to performance and funding) Fellowship: ₹49,000/- per month + HRA (as institute norms)	Ph.D. in Electrochemistry/Chemistry/Chemical Engg./Energy Science & Engg./Physics/Materials science or any relevant discipline with throughout excellent academic background. Candidates who cannot produce the PhD degree certificate or a proof of successfully defending the PhD thesis at the time of the interview may not apply. Expertise in nanomaterial synthesis, their characterization and analysis using techniques such as SEM, TEM, XRD, UV-DRS, AFM, XPS, BET, etc. in addition to in-depth knowledge of electrochemical methods such as cyclic voltammetry, ac impedance spectroscopy and galvanostatic cycling. Experience in Glove box handling and Li/Na-ion battery electrodes, or similar chemistries will be considered advantageous. Excellent written communication skill demonstrated through high quality publication in the relevant topic, preferably as the first author. Excellent inter-personal skill to cope up with the demand to work in a multi-institute project which may require travelling to partnering institutes and to work as a member of different multidisciplinary teams. RA-II is also expected to perform other academic duties beyond this research project as assigned by the PI/department.



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How to Apply:

The eligible and interested candidates are encouraged to send the following documents as a single pdf file via email to the PI as undersigned. Further, the subject line of the email should be “**Application for Research Associate II**”.

1. A cover letter explaining why you are fit for this post.
2. Your up to date CV mentioning relevant research experience (if any) and names and contact details of two academic referees
3. First pages of your journal publications (if any) and a brief write up describing what was your contribution to each of your publications.

Mode of Selection:

Based on the applications received, a short-list of candidates will be prepared to be called for an online interview. The shortlisted candidates will be notified through email (as mentioned in the applicant’s CV).

Important Dates:

Publication of the advertisement: June 19, 2023

Deadline for submission of application: July 10, 2023

Intimation to the shortlisted candidates: July 12, 2023

Tentative date of interview: July 17, 2023

Tentative start date: August 1, 2023

Terms and Conditions:

1. The above position is purely contractual and is for the duration of the project only.
2. Applications reaching after specified time will not ordinarily be entertained.
3. Canvassing in any form will disqualify the candidature.
4. The selected candidate is expected to join immediately after recruitment.
5. The selected candidate may have to work outside the normal working hours and normal working days without additional incentives.
6. Selected candidate will have to produce a Govt. issued ID in original, the original mark-sheets, and certificates etc. at the time of joining. Without any of these the candidature will be rejected.
7. Other terms and conditions will be as per those of DST and NIT Durgapur.

Prof. Amit K. Chakraborty
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