

INDIAN INSTITUTE OF TECHNOLOGY, ROORKEE
Department of Chemical Engineering

Dated: 20/05/2024

ADVERTISEMENT TO FILL UP PROJECT POSITIONS*

Applications are invited from Indian nationals only for project position(s) as per the details given below for the research project(s) under the Principal investigator (Prof. Ashwini Kumar Sharma), Department of Chemical Engineering, Indian Institute of Technology, Roorkee.

1. **Title of project:** Design of accelerated aging protocols for fast and cost-effective cycle life estimation of lithium-ion batteries
2. **Sponsor of the project:** ANRF (Formerly, SERB), New Delhi
3. **Project position(s) and number:** Junior research fellow (JRF) – 1 position
4. **Qualifications:** B.Tech. and/or M.Tech. in Chemical Engineering / Mechanical Engineering / Allied disciplines in Engineering and sciences. CSIR/UGC-NET/GATE qualification is mandatory. Desirable skills: MATLAB, Python, COMSOL Multiphysics, CFD software.
5. **Emoluments:** 31000/month (first two years), 35000/ month (third year) plus 8% HRA
6. **Duration:** 36 months with the possibility to be enrolled in the Ph.D. program based on performance.
7. **Job description:** (i) Perform physics-based mathematical modeling and simulations for lithium-ion batteries (ii) Conduct cycling-aging experiments on commercial lithium-ion batteries

Conditions:

1. Candidates before appearing for the interview shall ensure that they are eligible for the position they intend to apply.
2. Candidates desiring to appear for the Interview should submit their applications with the following documents to the office of Principal Investigator through email, by post or produce at the time of Interview:
 - Application in a plain paper with detailed CV including chronological discipline of degree/certificates obtained.
 - Experience including research, industrial field and others.
 - Attested copies of degree/certificate and experience certificate.
3. Candidate shall bring along with them the original degree(s)/certificate(s) and experience certificate(s) at the time of interview for verification.
4. Preference will be given to SC/ST candidates on equal qualifications and experience.
5. Please note that no TA/DA is admissible for attending the interview.

Note: The selected candidate may get an opportunity for PhD admission.

The last date for application to be submitted to office of Principal Investigator is 23rd June 2024 by 5 PM.

The interview will be held at the Department of Chemical Engineering, IIT Roorkee on ~~7th June 2024~~ 07th July 2024 (tentative).

Tel: 01332-284926, Email: ashwini@ch.iitr.ac.in

Approved

डीन (सिक)/Dean SRIC
 भा० प्रौ० सं० रुड़की/IIT Roorkee

Rajni
 24/05/24
 Ashwini
 24/5/24
 24/5/24

Ashwini
 20/05/24
ASHWINI KUMAR SHARMA
 Name and signature
 of Principal Investigator