

INDIAN INSTITUTE OF TECHNOLOGY, ROORKEE  
(Department of Metallurgical and Materials Engineering)

Dated: 6 March 2023

**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 consultancy/research project(s) under the Principal investigator (Name: Dr. Abhishek Tewari), Dept. of Metallurgical and Materials Engineering., Indian Institute of Technology, Roorkee.

1. Title of project : *DST-Materials-MAP*
2. Sponsor of the project: *DST*
3. Project position(s) and number: *Research Associate-I, 01 position*
4. Qualifications: PhD or equivalent degree or having 3 years of research/teaching/design/development experience after M.Sc./M.E./M.Tech. in Metallurgical Engineering, Materials Science/Engineering, Mechanical Engineering or related discipline with at least 1 publication in SCI journal. Hands-on experience in materials modelling/simulation or machine learning is essential.
5. Emoluments : *Rs. 42,000/ per month + HRA*
6. Duration : 2 years
7. Job description: DST Materials MAP is a consortium of 14 national labs and academic institutes, which will work for the development of perovskite solar cells. Different aspects related to efficiency, durability, stability and device engineering of perovskite materials based solar cells will be addressed by the partners, which consist of both experimental as well as simulation groups. RA will work in close collaboration with the experimental groups as well as other simulation groups. His primary task will involve building force field based atomistic models to understand the fundamental aspects of the stability of the perovskite materials. Perovskite materials are known to be susceptible to the environmental degradation such as due to humidity, extended exposure to light, temperature. RA will be leading the efforts to address these challenges using atomistic modelling method. He/She is also supposed to prepare project reports as well as participate and present the work in the consortium meetings.
8. Candidates before appearing for the interview shall ensure that they are eligible for the position they intend to apply.
9. 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:
  - CV including chronological discipline of degree/certificates obtained.
  - Experience including research, industrial field and others.
  - Attested copies of degree/certificate and experience certificate.
10. Candidate shall bring along with them the original degree(s)/certificate(s) and experience certificate(s) at the time of interview for verification.
11. Preference will be given to SC/ST candidates on equal qualifications and experience.
12. Please note that no TA/DA is admissible for attending the interview.

Walkin interviews will be conducted  
on 27/03/2023 in the MMEED  
department.

*Abhishek Tewari*

Abhishek Tewari

Name and signature of Principal Investigator

Tel: 01332-285268 / 7760393290

Email: [abhishek@mt.iitr.ac.in](mailto:abhishek@mt.iitr.ac.in)

\*To be uploaded on IIT Roorkee website and copy may be sent to appropriate addresses by PI for wider circulation.

*Abhishek Tewari*  
27/3/23  
डीन (सिक)/(Dean SRIC)  
भा. प्रौ. सं. रुड़की/IIT Roorkee

*Spaul*  
10.03.23  
*R*  
27/3/23