



**Advertisement for a Research Associate in DST funded project at Department of  
Physics, IIT Ropar**

Self-motivated candidates are invited to apply for an **open Research Associate position** in the group of **Dr. Mukesh Kumar, Department of Physics, IIT Ropar**. The candidate will work on “**Oxide based Electron and Hole transport layers for stable and high efficient perovskite solar cells**”. The position is for three years (renewable on yearly bases with satisfactory progress), and will be funded by the **Department of Science and Technology** under **Integrated Clean Energy Materials Acceleration Platform (IC-MAP)**.

**Essential requirements:**

1. The applicant should have hands-on experience and expertise in thin film deposition techniques (Physics vapour deposition, chemical vapour deposition and chemical route) for the growth of oxide based carrier selective layer
2. The applicant should have the hands-on experience and expertise for the complete fabrication of perovskite solar cells using chemical and physical vapour deposition techniques like glove box-spin coating and thermal evaporation
3. Good quality publications in the area of perovskite solar cell and related area in peer reviewed journals as per the requirement of the project
4. Good speaking and writing skills in English

**Eligibility:**

- a. Ph.D. degree (Physics and appropriate areas) holders are eligible to apply within five years after completion of their Ph.D.
- b. Candidates who have submitted the thesis are also eligible. However, in case of selection, selected candidate has to complete the Ph.D. viva (thesis defense) within three months from the date of joining.

**Fellowship:** A fixed Rs. 47,000/- + 9% HRA will be given to the candidate for three years. The norms for the yearly basis progress and evaluation in mandatory.

**Application:** Completely filled and signed application form (enclosed) along with bio-data and two recommendation letters should be sent to the undersigned by email ([mkumar@iitrpr.ac.in](mailto:mkumar@iitrpr.ac.in)). The form (word file) is also given below.

**Last date of submitting application form and recommendation (by email) is 21-10-2022.**

**Only shortlisted candidates will be notified through email.**

**Dr. Mukesh Kumar**

Associate Professor

Department of Physics

Indian Institute of Technology Ropar

Rupnagar-140001, Punjab

Email: [mkumar@iitrpr.ac.in](mailto:mkumar@iitrpr.ac.in)

Lab Webpage: [www.fremgroup.in](http://www.fremgroup.in)



### APPLICATION FORM FOR Research Associate position

<b>Department/School</b>		Affix Recent Passport Size Photo
<b>Area of Research</b>		

**Personal Details**

<b>Full Name</b> (in Capital)																									
<b>Father's Name</b> (in Capital)																									
<b>Date of Birth</b> (DD/MM/YYYY)							<b>Category</b> (SC/ST/OBC/GEN)																		
<b>Gender</b> (Male/Female)					<b>Marital Status</b> (Single/Married)					<b>Nationality</b>															
<b>Communication Address</b>												<b>Permanent Address</b>													
<b>Mobile Number</b>													<b>Email ID</b>												



**Details of Educational/Professional/Technical Qualifications (from Matriculation onward):**

Sr. No.	Degree	Discipline	University/College	Regular/Part time	Year	%age of Marks	Division
1							
2							
3							
4							
5							
6							

**If PhD degree not awarded, please give whichever applicable:**

Date of thesis submission: .....

Likely date of final thesis defense: .....

**Title of Thesis**

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 .....  
 .....

**Name of the thesis supervisor with contact details:**

.....  
 .....

**Specialization, in terms of Broad Area of Specialization and Exact Area of Specialization:**

(a) Subject	(b) Broad Area of Specialization	Exact Area of Specialization and key publication in the area as per advertisement



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**Publications and Patents where author is either leading or has significant contribution:**

(Please attach list of publications where the candidate is leading author and patents with full references and reprints or photocopies bearing serial numbers corresponding with those in the list)

- (a) No. of Papers (i) Published .....(ii) Accepted .....
- (b) No. of Books published .....
- (c) No. of patents: (i) Filed: ..... (ii) Granted .....

Prizes, Honours, Awards, Distinctions, if any:

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**Fellowships held:**

Name of fellowship	Name of the sponsoring agency	Date		Amount	Name of the Host Institute
		From	To		

**Give details of employment, if any**

Sr. No.	Name of the Organization	Designation	Period		Nature of Work
			From	To	



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(Describe in detail, on a separate sheet, the Research or Development Project you would like to proposed in the direction of given topic along with year-wise plan of work for three years.

**List of Enclosures: (Please tick)**

1. Proof of thesis submission.
2. List of Publications (**Only where the author has significant contribution**)
3. Plan of work as per the work proposed (Two A4 pages maximum).
4. Recommendation letter 1 (from Supervisor)
5. Recommendation letter 2

**DECLARATION**

I hereby declare that I have carefully read the instructions and particulars supplied to me and that the entries made in this application form are correct to the best of my knowledge and belief. If selected for admission, I promise to abide by the rules and discipline of the Institute.

I note that the decision of the Institute is final with regard to selection for admission and assignment to a particular Department and field of study/research. The Institute shall have the right to expel me from the Institute at any time after my admission, provided it is satisfied that I was admitted on false particulars furnished by me or my antecedents prove that my continuance in the Institute is not desirable. I agree that I shall abide by the decision of the Institute, which shall be final.

**Place:**  
**Date:**  
**the Candidate**

**Signature of**