



INDIAN INSTITUTE OF TECHNOLOGY ROPAR

Department of Chemical Engineering
Main Campus, IIT Ropar, Rupnagar, Punjab-140001

Advertisement for the Research Associate (RA)

Applications are invited for a Research Associate (RA) position in the Department of Chemical Engineering, IIT Ropar under the scheme of National Green Hydrogen Mission (NGHM) sponsored by Ministry of New and Renewable Energy (MNRE) from Indian nationals for one position for the research project titled, “**Pilot plant demonstration of hydrogen production from agricultural waste through integrated pyrolysis and catalytic steam reforming process**” as per the following details.

Job description: Research Associate (RA)

Location: IIT Ropar, Rupnagar, Punjab

Number of positions: 1 (one)

Type of job: Full time (on contract)

Duration: The position is initially for one year. Extendable up to 2 years based on satisfactory performance.

Responsibilities: (i) Raw materials collection, screening and analysis, (ii) Hands-on experience in heterogenous catalysts synthesis and characterizations, (iii) Perform experiments at optimise process conditions, and analyse the collected data, (iv) Monitoring the quality and quantity of the product, (v) Scaling up the overall process etc.

Essential qualifications: PhD degree in Chemical Engineering/Chemical Technology/allied branches /Chemistry with good number of publications in reputed journals. Candidate must have obtained at least 60% marks (or 6.5 CGPA) (55% marks or 6.0 CGPA for SC/ST) in all qualified degrees. Candidate must have experience in material synthesis and handling different projects.

Age limit: 35 years

Desirable qualifications: (a) Hands-on experience in handling experimental set-up, performing experiments, and collecting data, (b) Experience in analysis of different catalyst characterization techniques e.g. BET, XRD, TPX, TGA, XPS, Raman, SEM, TEM etc., (c) Experience of reaction kinetic and modelling and (d) Priority will be given to candidate having engineering background and industrial experience.

Remuneration: A salary of Rs 58,000/month will be provided (+HRA if applicable).

The applicant must **email the following documents in a single PDF file named as RA_MNRE Project_Your name** to csel.chemical@iitrpr.ac.in and cc'ed to tarakmondal@iitrpr.ac.in (Dr. Tarak Mondal) on/before **10th August, 2026**.

1. A one-page cover letter describing the background and prior knowledge to excel in the project.
2. Resume with complete qualification and experience as per the format given in Annexure 1.
3. Soft copy of all degree/marksheet certificates.
4. Certificate of PhD degree and GATE/NET qualification.
5. Recommendation letters from two referees
6. List of Publications

Note: Only shortlisted candidates will be called for online interview through email.



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For any further information, please contact;

Dr. Tarak Mondal

Department of Chemical Engineering

Indian Institute of Technology Ropar, Rupnagar, Punjab, INDIA 140001

Email: cser1.chemical@iitrpr.ac.in, tarakmondal@iitrpr.ac.in

ANNEXURE 1

APPLICATION

Affix your
recent
passport
photo

1. Name and full correspondence address :
2. Email and contact number :
3. Gender :
4. Date of Birth :
5. Marital status :
6. Category (GEN/ OBC /SC/ST) :
7. Nationality :
8. Whether differently abled :
9. Academic qualification :

Qualification (Tick the appropriate degree)	Subject	Institute/Board/Univ.	Year of passing	% Marks/CGPA
10th				
12 th				
BE/B.Tech/B.Sc				
ME/M.Tech/M.Sc				
PhD				



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10. Title of M.Tech/M.E./MSc. Thesis:.....
Brief Description of the work (Max. 150 words):

11. Title of Ph.D Thesis:.....
Brief Description of the work (Max. 150 words):

12. Work experience in chronological order:

S. No.	Positions held	Name of the Institute/Industry	From	To	Nature of work
1.	Present Position:				

13. Qualifying examination details e.g. GATE/ NET/ or equivalent exam:

S. No.	Name of the exam	Specialization/ code	Qualifying Year	Score and percentile

14. Professional Recognition/ Award/ Prize/ Certificate, Fellowship received by the applicant.

S. No.	Name of Award	Awarding Agency	Year

15. Research Publications:

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



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16. List of papers published in SCI Journals, in year wise descending order (Maximum of Best 5)

S. No.	Author (s)	Title	Name of Journal	Volume	Page	Year
1.						
2.						
3.						
4.						
5.						

17. **Name and designation of the referees (at least two):**

1. Referee 1:
2. Referee 2:

List of Enclosures: (Please tick)

1. A one-page cover letter
2. Updated resume
3. PhD Degree certificate
4. List of Publications
5. Recommendation letter (from Supervisor/Postdoc mentors)

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:

Signature of Applicant

Date:

Note: A one-page cover letter describing your background and how it will help to pursue the project must be added in the next page.