



INDIAN INSTITUTE OF TECHNOLOGY ROPAR  
Department of Chemical Engineering  
Transit Campus-I, Nangal Road, Ropar (Punjab)-140001

**Advertisement for the Junior Research Fellow**

Applications are invited for a junior research fellow (JRF) position in the Department of Chemical Engineering, IIT Ropar under the DST-TIH (AWaDH) from Indian nationals for one position for the research project titled, “**Enhancement of soil quality by efficient designing of vermicompost using agricultural-waste and recommend suitable crop using machine learning models**” as per the following details.

**Job description:** Junior Research Fellow

**Location:** IIT Ropar, Punjab,

**Number of positions:** 1

**Type of job:** Full time (on contract)

**Duration:** The position is for two years. However, it will be given initially for 1 year which can be extended further based on satisfactory performance.

**Responsibilities:** - (i) Designing of experimental set-up, collecting raw-materials, (ii) Perform experiments to optimise process parameters, and analyse the collected data, (iii) Monitoring the quality of the developed product, (iv) Develop models using ML tools, (v) Scaling up the overall process etc.

**Essential qualifications:** Master’s degree in Chemical Engineering/Agriculture Engineering/Bio-Technology/allied branches or Masters in Chemistry with qualified GATE/NET. Candidate must have obtained at least 60% marks (or 6.5 CGPA) (55% marks or 6.0 CGPA for SC/ST) in their Master’s. Deserving candidates will be consider for PhD admission at a later stage if they meet all the institute requirements.

**Age limit:** 35 years

**Desirable qualifications:** (a) Hands-on experience in designing experimental set-up, performing experiments, and collecting data (b) Experience of agriculture data modeling and analysis, (c) Experience in basic AI/ML techniques is an added advantage

**Remuneration:** A consolidated salary of Rs 31,000/month will be provided.

The applicant must email the following documents in a single PDF file to [tarakmondal@iitrpr.ac.in](mailto:tarakmondal@iitrpr.ac.in) (Dr. Tarak Mondal) on/before **10<sup>th</sup> August, 2022**.

1. A one-page cover letter describing the background and how it will help to pursue 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. Proof of GATE/NET qualification.

**Note:** Only shortlisted candidates will be called for interview through email. No TA/DA will be provided for attending interview.

**For any further information, please contact;**

Dr. Tarak Mondal

Department of Chemical Engineering, IIT Ropar

Room no. 224, Transit Campus-1, Nangal Road Rupnagar, Punjab 140001

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



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ANNEXURE 1

APPLICATION

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

Qualification	Subject	Institute/Board/Univ.	Year of passing	% Marks/CGPA
10 <sup>th</sup>				
12 <sup>th</sup>				
BE/B.Tech/B.Sc				
ME/M.Tech/M.Sc				

10. Work experience in chronological order:

S. No.	Positions held	Name of the Institute/Industry	From	To	Pay Scale (Rs.)

11. Indicate whether you propose to register for higher degree at IIT Ropar, Punjab.

Yes/No :

(Name of higher degree is PhD)



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

S. No.	Name of Award	Awarding Agency	Year

13. Research Publications (*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.						

**DECLARATION**

I hereby declare that all the statements made in this application are true and complete and nothing has been concealed/ distorted. I am aware that, if at any time I am found to have concealed/distorted any material information, my engagement is liable to be summarily terminated without notice.

Place:

Signature of Applicant

Date: