**Advertisement for the Junior Research Fellow**

Applications are invited for a Junior Research Fellow (JRF) position in the Department of Chemical Engineering, IIT Ropar to work in the DST-SERB sponsored research project **[Project No. EEQ/2022/000524]** entitled, **“A new process for the production of 2-methylfuran, a 2nd generation biofuel, from biomass-derived furfural via vapor phase catalytic transfer hydrogenation”** under supervision of undersigned.

**Number of positions:** 1 (to join immediately)

**Duration:** 2-3 years or till the completion of the project, whichever is earlier.

**Responsibilities: -** (i) Procurement of raw-materials, synthesis and characterization of catalytic materials required for the process (ii) Designing of experimental set-up, perform experiments to optimise process parameters, and analyse the collected data, (iii) Monitoring the quality of the developed product through various characterization techniques.

**Essential qualifications:** Master’s degree in Chemical Engineering and 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.

**Desirable qualifications:** Experience in heterogeneous catalysis will be preferred.

**Remuneration:**As per DST norms.

**How to Apply?**

The applicant must email the following documents in a single PDF file to Principal investigator Dr. Tarak Mondal ([tarakmondal@iitrpr.ac.in](mailto:tarakmondal@iitrpr.ac.in)) on/before **27th March, 2023**.

1. Filled application form in the attached format
2. A one-page cover letter describing the background and how it will help to pursue the project.
3. Resume with complete qualification and experience as per the format given in Annexure 1.
4. Soft copy of all degree/marksheet certificates.
5. Proof of GATE/NET qualification.

**General Terms and conditions:**

1. Only shortlisted candidates will be contacted/informed through email.

2. The position is temporary which will be renewed every year subject to the satisfactory performance.

3. Candidate selected for this position may be considered for the regular PhD program provided he/she qualifies the eligibility criterion for PhD program at IIT Ropar.

4. If it is found at later date that any information given in the application is incorrect/false the candidature/appointment is liable to be cancelled/terminated.

**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)

**ANNEXURE 1**

**APPLICATION FORM**

**For the position of JRF to work in the DST-SERB sponsored project** **[Project No. EEQ/2022/000524]**

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 |
| 10th |  |  |  |  |
| 12th |  |  |  |  |
| BE/B.Tech/B.Sc |  |  |  |  |
| ME/M.Tech/M.Sc |  |  |  |  |

1. Work experience in chronological order:

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

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

Yes/No :

(Name of higher degree is PhD)

1. Qualifying Examination (GATE/CSIR/UGC/NET/ Others).

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| S. No | Qualifying Examination | Branch | Year | Valid up to | Percentile | All India Rank | Any other information |
|  |  |  |  |  |  |  |  |

1. Research Publications *(List of papers published in SCI Journals, in year wise descending order).*

*(Maximum of Best 5)*

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| --- | --- | --- | --- | --- | --- | --- |
| S. No. | Author (s) | Title | Name of  Journal | Volume | Page | Year |
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1. Awards, patents, prizes etc (if any)
2. Any other Relevant Information

**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: |  |