



Department of Chemical Engineering  
भारतीय प्रौद्योगिकी संस्थान रोपड़  
INDIAN INSTITUTE OF TECHNOLOGY ROPAR  
रूपनगर, पंजाब-140001/ Rupnagar, Punjab-140001  
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### Advertisement for Recruitment of Junior Research Fellow (JRF)

Applications are invited from highly motivated and eligible candidates for the following SERB-funded project.

**Project title: A breakthrough revolution in crystallization technology by nanobubbles as nuclei agents.**

#### Details of the PI (Principal Investigator):

Dr. Neelkanth Nirmalkar

Assistant Professor, Department of Chemical Engineering, IIT Ropar, Rupnagar-140001, Punjab, INDIA

E-mail: [n.nirmalkar@iitrpr.ac.in](mailto:n.nirmalkar@iitrpr.ac.in)

Research Lab: <https://dr-neelkanth-nirmalkar.web.app/people>

**Name of Position (1):** Junior Research Fellow (JRF)

**Duration:** 3 years or the project completion date, whichever is earlier. The candidate will be appointed initially for one year and based on the performance, an extension will be given.

**Emoluments:** As per DST norms

**Essential Qualifications:** The applicant must meet at least one of the following two criteria:

- I. Master's degree in chemical/Biotechnology / Bio-Engineering / Biochemical Engineering from a recognized institute and with an exceptionally good academic record with a minimum CGPA of 7.0 on a 10.0 point scale (or 70% marks) + good GATE/NET score
- II. Bachelor's degree in chemical/Biotechnology / Bio-Engineering / Biochemical Engineering from a recognized institute and with an exceptionally good academic record with a minimum CGPA of 7.0 on a 10.0 point scale (or 70% marks) + good GATE/NET score

**Desirable Qualities:**

- I. Good knowledge of the subjects of nanotechnology, bioreactor design, anaerobic digestion etc.
- II. Excellent writing ability and oral communication skills, and the ability to multitask, effectively

#### How to Apply?

The applicant should send the following documents, as a single PDF file, through an email to [n.nirmalkar@iitrpr.ac.in](mailto:n.nirmalkar@iitrpr.ac.in)

1. Completely filled application form given in the prescribed proforma (Annexure-B)
3. Soft copies of all degree certificates and proof of GATE/NET score as applicable

The email must have the subject line: "**Application for the post of JRF - SERB**". Last date of receipt of application: **27<sup>th</sup> November, 2023**. Only shortlisted candidates will be called for an interview.

#### General Instructions:

1. No TA/DA or any other allowances will be paid for appearing in the interview.
2. Final decision will be made by the selection committee.

**Annexure-B**  
**APPLICATION PROFORMA**

**For JRF for SERB project:** A breakthrough revolution in crystallization technology by nanobubbles as nuclei agents.

**Personal Details**

Full Name (In Capital)				Affix Recent Passport Size Photo
Date of Birth (DD/MM/YY)		Gender (Male/Female)		
Marital Status (Married/Unmarried)		Nationality		
Address for Communication		Permanent Address		
Mobile/Phone no.		E-mail		

**Education Background (From Matriculation Onward)**

S. No.	Degree	Board / University	Regular/ time	Part	Year	Division	% Marks /CGPA*

\*[Please also submit softcopy of the semester-wise mark-sheets as well as softcopy of degree]

**Qualifying Examination (GATE/CSIR/UGC/NET/ Others)**

<b>S. No.</b>	<b>Qualifying Examination</b>	<b>Branch</b>	<b>Year</b>	<b>Valid up to</b>	<b>Percentile</b>	<b>All India Rank</b>	<b>Any other information</b>

**Professional Experience (if any)**

S. No.	Designation	Name of Organization	Period		Nature of Work
			From	To	

**Research Publications (if any):**

**[Also attach softcopy of conference/journal papers separately, if applicable]**

**Awards, patents, prizes etc. (if any):**

**Any other Relevant Information:**

**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, I promise to abide by the rules and discipline of the Institute.

I note that the decision of the Institute is final in regard to selection. The Institute shall have the right to expel me from the Institute at any time after my selection, provided it is found 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.

**Date:**

**Place:**

**Signature of Applicant**