INDIAN INSTITUTE OF TECHNOLOGY PATNA
BIHTA PATNA-801106
RESEARCH & DEVELOPMENT UNIT

ADVERTISEMENT NO: R&D/1036/DDT/382   **DATED: 30.05.2024**

Project No.: R&D/SP/CBE/DDT/2023-24/1036

Applications are invited in the prescribed format only for the following assignment in a purely time bound research project undertaken in this institute.

1. (a) Name of the temporary assignment   : Junior Research Fellow (JRF) – (Vacancy: 01 post)

   (b) Number of Post   : JRF-01 (one)

   (c) Duration of the Post   : Initially 01 year and can be extended up to maximum of 03 years subject to satisfactory performance.
   (*Note: JRF may apply in PhD programme of CBE Dept. of IIT Patna*)

2. Name of the temporary research project   : **Design and Development of Novel Thermocatalysts for Selective CO₂ Hydrogenation to Ethanol**

3. Name of the sponsoring Agency   : Science and Engineering Research Board (SERB), Govt. of India (GOI).

4. Consolidated Fellowship/Salary   : **Rs. 37,000/- per month for first two years + HRA (as applicable) and Rs. 42,000/- per month for the third year + HRA (as applicable)**

5. Qualifications & Experience   : B.S. 4-year programme/Integrated B.S.-M.S./M.Sc./B.E./B. Tech. or equivalent degree, with 55% marks and passing of NET-LS/GATE Test 60% (or higher) in 10th and 12th.

Bachelor's/ Master's degree level in the following disciplines:
Chemical Engineering/Technology, Materials Science/Engineering, Nanoscience, Nanotechnology, Metallurgical Engineering, Ceramic Engineering/Technology, Polymer Science/Technology, Ceramic Engineering/Technology, Environmental Engineering, Energy Science and Engineering, Chemical and Electrochemical Engineering, Physics and Chemistry. **Valid GATE (with paper code CH, XE, CY, MT, PH and PE) or NET Score is required.**

Age limit: The upper age limit for JRF shall be 28 years for B. Tech./B.E. and 32 years for M. Tech./M.E./M.Sc. degree. Relaxations for SC/ST/OBC/Women/PD will be given as per the GOI rules.

Research experience in the field of reaction engineering and heterogeneous catalysis will be given preference.

Key responsibilities of a JRF include:

Research Work: Conduct literature reviews, experimental work, data collection, and data analysis as part of the research project. Project Assistance: Assist the PI in project planning, design, and execution. Data Interpretation: Analyze research data and interpret the results to draw meaningful conclusions.

Report Writing: Prepare research reports, papers, and presentations to communicate findings and progress to the research team and stakeholders. Continuous Learning: Keep abreast of the latest developments and advancements in the field of research.

Collaboration: Collaborate with other researchers and team members to share knowledge and insights. Compliance: Ensure that research work is conducted in adherence to ethical guidelines and research protocols. Professional Development: Attend seminars, conferences, and workshops to enhance knowledge and research skills.

1. Candidates interested in this position and satisfying the qualification criteria should write an email to the Project Investigator: **Dr. Sushant Kumar** (Email id: sushantkumar@iitp.ac.in)
2. The subject of the email should read as "JRF Position". **The last date for receiving this email is 20th June, 2024.**
3. The email MUST include the scanned/pdf copy of the duly filled application form (see below) with applicant's signature.
4. The email MUST include self-attested scanned pdf copy of all supporting documents (degree certificates, mark-sheets, GATE/NET scorecard, and category certificate, if applicable).
5. The application should also include a brief academic CV not exceeding two pages.

IIT Patna reserves the right to not shortlist any candidate in case the application email does not contain complete information backed up by the supporting documents as listed above.

All candidates who apply via email by 20th June, 2024 (deadline) and are shortlisted will be informed regarding the further details by 24th June, 2024.

The shortlisted candidates would be asked to choose between offline walk-in (no travel allowances (TA) would be provided) and online interview mode. For any query, contact investigator: **Dr. Sushant Kumar**, Department of Chemical and Biochemical Engineering, IIT Patna, **Email**: sushantkumar@iitp.ac.in (**Tel.: +91-6115-233670**).

Important Dates: 1. Last date of receiving Applications by Email: **20th June, 2024**
                2. Shortlisted candidates will be informed by Email: **24th June, 2024**
                3. Date of Interview: To be announced.

                                                   Deputy Registrar

Copy to:
1. Associate Dean, R&D, IIT Patna
2. Advertisement file
3. Project file

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FORMAT OF APPLICATION FOR JRF

Name & Address Including email id and Phone no. (for Correspondence)	Category (GEN/OBC/SC/ST/PD)	DOB dd/ mm/yy	Professional Exam. (GATE/CSIR-NET, etc) & Validity
NAME IN CAPITAL Address: Phone: Email:			

Educational Qualification

Institute/ Board	Exam Passed	Year of Passing	% of Marks/CPI
	10th Class		
	12th Class		
	Bachelors (B.Sc/B.Tech/B.E./BCA) or equivalent		
	Masters (M.Sc/M.Tech/M.E/MCA/MA) or equivalent		

Qualifying degree	Degree/ major/Specialization
(B.Sc/B.Tech/B.E./BCA)	
(M.Sc/M.Tech/M.E/MA/MCA)	
Others	

Signature of applicant

Date:
Place: