

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

**ADVERTISEMENT NO:** R&D/1033/DOE/358  
**Project No.** R&D/SP/CBE/DOE/2023-24/1033

**DATED:** 21.03.2024

- 1. (a) Title of the temporary position** : Junior Research Fellow (JRF)
- (b) Number of the post** : 01 (one)
- (c) Duration of the post** : Initially 01 year, may be extended up to maximum 03 years upon satisfactory performance  
(Note: The selected candidate may get opportunity for PhD admission at IIT Patna)
  
- 2. Title of the research project** : Development of an optimized and efficient lithium-ion battery thermal management system for electric vehicles utilizing phase change material and metal foam composites
  
- 3. Name of the sponsoring agency** : DST-SERB, Govt. of INDIA
  
- 4. Fellowship/salary** : Rs. 37,000/- pm (in first two years) and Rs. 42,000/- pm (in third year) + HRA (as applicable)
  
- 5. Qualifications & experience**  
B.Tech/B.E. or equivalent with the minimum CPI of 6.5 or 60% of marks with valid GATE score.  
or  
M.Tech/M.E. or equivalent with the minimum CPI of 6.5 or 60% of marks with valid/invalid GATE score.

**DEGREE REQUIREMENTS:**

The candidate essentially should have **B.Tech/B.E. degree in Chemical Engineering/Technology, Biochemical Engineering, Mechanical Engineering, Aerospace Engineering, Electrical Engineering, Thermal Engineering, Electrochemical Engineering, Energy Science/Engineering, or any related field.** GATE/NET qualification in related discipline is MUST. Preference will be given to the candidates having prior experience in “theoretical/experimental/computational fluid dynamics and heat transfer and basic knowledge of CFD tools such as Ansys/Comsol/OpenFoam”.

**AGE LIMIT:**

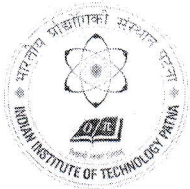
The upper age limit is 28 years (B.Tech/B.E) or 32 years (M.Tech/M.E). Relaxations for SC/ST/OBC/Women/PD candidates is applicable as per the GOI rules.

**KEY RESPONSIBILITIES:**

**Research work:** Conduct literature review, problem formulation, modelling and simulation, and data analysis, set up the experimental facilities. **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 progress reports, writing research articles and proposals, and power-point presentations to communicate findings and progress.

**Collaboration:** Cordially work with PhD students and other members of the Lab, collaborate with other researchers and team members to share knowledge and insights. **Compliance:** Ensure that



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research work is conducted in adherence to ethical guidelines and research protocols. *Professional Development:* Attend seminars/conferences/workshops to enhance knowledge and research skills.

1. Candidates interested and eligible for this position should write an email to the Project Investigator (PI): Dr. Anoop Kumar Gupta (Email id: [anoopg@iitp.ac.in](mailto:anoopg@iitp.ac.in))
2. The subject of the email should read as "JRF Position". **The last date for receiving the applications by email is 10<sup>th</sup> April, 2024 (Wednesday).**
3. The email should include the scanned/pdf copy of the duly filled application form (as attached) with applicant's signature, self-attested scanned pdf copy of all supporting documents such as degree certificates, mark sheets, GATE/NET scorecard, and category certificate, if applicable.
4. The application should also include a brief academic CV not exceeding two pages.

Based on the applications qualifying the eligibility criteria, the shortlisted candidates will be called for the offline walk-in/online interview, final date of interview will be communicated later. No TA/DA is admissible for appearing in the interview. IIT Patna reserves the right to not shortlist/select any candidate in case of non-suitability/incomplete application/missing documents.

**Important Dates:**

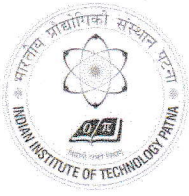
1. Last date of receiving applications by email: **10<sup>th</sup> April, 2024 (Wednesday)**
2. Shortlisted candidates will be informed by email: **15<sup>th</sup> April, 2024 (Monday)**
3. Date of interview: to be announced

For any query, contact the Principal Investigator **Dr. Anoop Kumar Gupta, Department of Chemical and Biochemical Engineering, IIT Patna** (Email: [anoopg@iitp.ac.in](mailto:anoopg@iitp.ac.in), Tel: 06115-233762).

**Deputy Registrar**

Copy to:

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



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PROJECT CODE: R&D/SP/CEE/LMG/2023-24/940

ADVERTISEMENT NO:

DATED:

FORMAT OF APPLICATION FOR JRF

Name & Address Including email id and Phone no. (for Correspondence)	Category (GEN/OBC/SC/S T/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
	10 <sup>th</sup> Class		
	12 <sup>th</sup> 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	

Date:

Place:

Signature of applicant