



Advertisement No- 152/R&C/2023-24/Project Staff

Dated: 02-06-2023

**Advertisement for the Post of Junior Research Fellow (On Contract)**

**Walk In Interview**

Applications are invited from Indian nationals for the post of **Junior Research Fellow (JRF) (on contract)** in research project entitled "*Novel Ionic Liquid based Nano-photocatalytic Conversion of WCO into Biodiesel and Triacetin under Synergic Effects of Cavitation & Microwave: A Holistic Technique for Improved Economics with Reduced Damage to Environment and Safety*" Sanction No. CRG/2022/000825 dated 02/12/2022 sponsored by SERB, DST, Gov. of India.

The duly completed application on prescribed format along with scanned copies of supporting documents must reach via email to: [dipesh-patle@mnnit.ac.in](mailto:dipesh-patle@mnnit.ac.in) (email address of **Dr. Dipesh Shikchand Patle, ChED**) with the subject of the email as "Application for JRF (on contract) in SERB-CRG Project" on or before **June 26, 2023, 5.00 PM (IST)**.

**Description and Objectives of the Project:** *The project is aimed at the development of a holistic technique for biodiesel production from WCO that is catalyzed by IL based nano-photocatalyst in the presence of microwave, ultrasound and UV/V radiation in a continuous manner while ensuring least damage to the environment and safety. The overall process shall promote green synthesis and sustainability. This study shall also explore the process systems engineering aspects, namely complete process design, optimization and economic/environmental/safety investigations.*

The position is purely temporary and will be governed by the funding agency rules & service conditions of Office of the Dean (Research & Consultancy), Motilal Nehru National Institute of Technology, Allahabad, Prayagraj-211004 (U.P.) India.

**Number of Position** : 1 (One)

**Essential Qualifications** : 

- M.E./M. Tech (or equivalent) in chemical engineering or allied relevant branches with **or** B.E./B. Tech (or equivalent) in chemical engineering or allied relevant branches **or** M.Sc. (or equivalent) in Biochemical engineering, Biotechnology, Chemistry.
- Qualification in *GATE/NET/CSIR/ICAR/ICMR/DST/DRDO/NPCIL/GPAT* (any one of these examinations).

**Desirable Experience** : Research experience in catalysis, biodiesel synthesis, analytical instruments, and process design/optimization/control.

**Fellowship** : **Rs. 31,000.00** per month (Consolidated) + HRA (16%)

**Other Benefits** : Accommodation may be available as per the availability and the Institute norms. Candidate selected for the JRF may **register for Ph.D.** if eligibility conditions as set by institute (CPI 6.5 or 60% marks in M. Tech. (or equivalent) and CPI 8.0 or 75% marks in M.Sc./B.E./B.Tech (or equivalent)) is met by the candidate. Facility of yearly leave, medical benefits etc. may be available as per applicable rules of the project staff.

**Age Limit** : 28 years on the last date of application (The upper age limit is relaxable up to 5 years in the case of candidates belonging to SC/ST/OBC/PwD and women candidates).

**Tenure of Appointment** : Appointment will be made on contract basis for a period of one year initially, which can be extended depending on the performance evaluation on yearly basis till the end of project.

**Note:**

1. The applicant will be responsible for the authenticity of information, other documents and photographs submitted.
2. The Institute reserves the right to accept application at any time, and consider candidates of exceptional credentials without applications.
3. Qualification and experience may be relaxed by the Institute at any point of time for otherwise exceptional candidates.
4. Mere possessing the prescribed qualification does not ensure that the candidate would be called for Interview. The Candidates will be shortlisted on the basis of merit and need of the project.
5. Shortlisted Candidates will be informed by e-mail about the interview date. So, the candidate must provide valid e- mail IDs in their applications.
6. Shortlisted candidates have to present themselves for the interview on the interview date with updated CV and original and attested photocopies of mark sheets/ certificates in support of their academic qualifications.
7. Applicants in employment (private, government or any other organization) are required to submit a “**No Objection Certificate**” from the employer at the time of interview.
8. No TA/DA will be paid for appearing in the interview.

**Name of Project Investigator (PI)** : **Dr. Dipesh Shikchand Patle**  
Designation : Assistant Professor  
Department : Chemical Engineering



रासायनिक अभियांत्रिकी विभाग  
मोतीलाल नेहरु राष्ट्रीय प्रौद्योगिकी संस्थान इलाहाबाद  
प्रयागराज - 211004 (भारत)  
**CHEMICAL ENGINEERING DEPARTMENT**  
Motilal Nehru National Institute of Technology, Allahabad  
Prayagraj-211004 (India)

**For office use only**

Application No.....

**APPLICATION FORM**

**Advt. No**.....

**Dated**.....

**Research Project Entitled-** *Novel Ionic Liquid based Nano-photocatalytic Conversion of WCO into Biodiesel and Triacetin under Synergic Effects of Cavitation & Microwave: A Holistic Technique for Improved Economics with Reduced Damage to Environment and Safety*

**Sanction letter & Date-** CRG/2022/000825 dated 02/12/2022

**Funding Agency-** SERB, DST, Gov. of India

**Name of P.I. -** Dr. Dipesh Shikchand Patle

**Name of position-** Junior Research Fellow (JRF) (on contract)

**Department/Section-** Chemical Engineering

**Self Attested  
recent passport  
size Photograph**

1.	Name of the Candidate (In Capital letter)					
2	Sex (Male/Female)					
3	Marital Status (Married/Unmarried)					
4	Date of Birth					
5	Age as on last date of application	_____ Years _____ Months _____ Days				
6	Father's/Husband's Name					
7	Present Contact Address					
8	Permanent Address					
9	Mobile No					
10	E-mail					
11	Nationality					
12	Category	Gen/SC/ST/OBC/PwD _____ (enclosed attested copy of certificate)				
13	NET/GATE/etc.	Valid up to _____ Score/Rank _____				
14	Educational Qualification					
	<b>Qualification</b>	<b>Subject/Discipline</b>	<b>Board/Institute/Univ.</b>	<b>Year</b>	<b>% of marks</b>	<b>Div.</b>
	10th					
	12th					
	Graduation (B.Tech/BSc/Other)					
	Post Graduation (M.Tech/MSc/Other)					
	Other					

\*Title of U.G/P.G. Thesis:.....  
 .....

15	Details of Experience in chronological order. <b>Enclose a separate sheet</b> duly authenticated under your signature, if necessary.						
	<b>Organization</b>	<b>Position</b>	<b>Salary/ Emoluments</b>	<b>Nature of Duties</b>	<b>Nature of appointment</b>	<b>Period of Experience</b>	
						<b>Year</b>	<b>Month</b>
							<b>Days</b>
16	Research Publications (Attach list): - if any				Numbers:		
	i) Research Publications						
	ii) International/ Conference/Seminar ./ Symposium Proceeding						
	iii) National Conference/Seminar ./Symposium Proceeding						
17	Any other information (e.g. write-up stating the applicant's suitability for the project in ~ 300 words as a separate annexure) [Optional]						
18	Indicate whether you intend to register for higher degree* at MNNIT, Allahabad. Yes/No (Name of degree)						

**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:  
Date:

Signature of the Applicant

**Enclosures-** Self attested copy of documents

1. Proof of Date of Birth
2. Mark sheets & certificates of all the examination passed
3. Category Certificate, if applicable
4. NET/GATE, etc. score card
5. Experience support, if any