



**NATIONAL INSTITUTE OF TECHNOLOGY ROURKELA**  
**SPONSORED RESEARCH, INDUSTRIAL CONSULTANCY & CONTINUING EDUCATION**

**NITR/SR/2022/Advt-22CY062/L/068, dt. 28.01.2023.**

Applications are invited on prescribed format (On-line) for the temporary post of "Research Personnel (JRF)" for the Project entitled "Lattice strain engineering in NIR-upconverting core-shell nanocrystals for maximum luminescence output". Selected candidate may enroll in PhD Programme in the Department of Chemistry, National Institute of Technology Rourkela based on Institute norms and regulations.

1.	Project Code	SR/22/CY/062
2.	Name of the Temporary Post	Junior Research Fellow
3.	Name of the Research Project	"Lattice strain engineering in NIR-upconverting core-shell nanocrystals for maximum luminescence output".
4.	Name of the Sponsoring Agency	SERB
5.	Tenure of the Project	03 years (from 23/12/2022 to 22/12/2025)
6.	Tenure of the Assignment	Initial for a period of one year (Extendable to three years upon satisfactory performance)
7.	Job Description	To carry out the research work (Experimental), in the field of upconverting crystals & to visit RRCAT, Indore, for beam time & data collection. Scope to enroll as a PhD Scholar in Department of Chemistry (has to satisfy Institute / Department Eligibility Criteria)
8.	Consolidated monthly compensation / Fellowship	INR 31,000 (1st & 2nd year) and INR 35,000 (3rd year)
9.	Essential Qualifications and experience	MSc in Chemistry with 60% marks
10.	Desirable Qualifications / Exp.	Valid qualification of GATE/NET-JRF/Lectureship/UGC-CSIR NET-JRF/Lectureship
11.	Accommodation	Bachelor / Married accommodation in the Institute may be provided subject to availability.

For technical information on the project, the candidate may contact the Principal Investigator at the following address:

Name : Prof. Supratim Giri  
Address : Department of Chemistry  
National Institute of Technology Rourkela, Odisha 769 008.  
Tel. No. : 0661-246 2666  
Mobile : 9438501472  
E-mail : [girisupr@nitrkl.ac.in](mailto:girisupr@nitrkl.ac.in)

Date and Time for **On-line** Interview: **24.02.2023 at 15:00 HRS**

Place of Interview: **Department of Chemistry, NIT Rourkela**

Eligible candidates may apply within **14.02.2023**, 2359 HRS. The candidates are required to send the complete filled up application form (Soft copy) to [girisupr@nitrkl.ac.in](mailto:girisupr@nitrkl.ac.in). The application form is available in the following link: [http://nitrkl.ac.in/oldwebsite/Jobs\\_Tenders/5ProjectFellowships/Doc/JRF%20LS-PND-64\(2\).pdf](http://nitrkl.ac.in/oldwebsite/Jobs_Tenders/5ProjectFellowships/Doc/JRF%20LS-PND-64(2).pdf) which must be filled by candidates and also required to attach photocopies of all supporting documents, research papers (if any) etc.

Candidates will build a **Single PDF** file; it is to be sent to Principal Investigator ([girisupr@nitrkl.ac.in](mailto:girisupr@nitrkl.ac.in)) **on or before 14.02.2023, 2359 HRS**. The candidates are also required to produce relevant documents mentioned in the application form [such as original of all mark sheets and certificates, research papers (if any), experience certificate (if any) etc.] at the time of interview / joining. Selection / Joining will be canceled in case of any suppression of information / document provided earlier.

Mere possession of minimum qualification does not guarantee invitation to the interview. Candidates will be short listed based on merit and need of the project.

**Sd/-  
Asst. Registrar (SR)**

Copy to:

- 1) All Heads of the Departments, NIT Rourkela for publication on departmental notice boards.
- 2) Prof. **Supratim Giri**, PI with a request to give wide publicity to this advertisement.
- 3) Head of the Department, **Chemistry (CY)**.
- 4) Project file.