



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

**NITR/SR/2021/Advt-21CY038/L/045, dt.24/27.12.2021**

Applications are invited on prescribed format (On-line) for the temporary post of "Junior Research Fellow (JRF) for the Project entitled **“Molecular Engineering of Organic Antennas and their Impact on Dual Emissive Lanthanide Complexes for Smart White LEDs and Molecular Thermometers”**. Selected candidate may enroll in Ph.D. Programme in the **Department of Chemistry, National Institute of Technology Rourkela** based on Institute norms and regulations.

1.	Project Code	<b>SR/21/CY/038</b>
2.	Name of the Temporary Post	Junior Research Fellow - 01
3.	Name of the Research Project	“Molecular Engineering of Organic Antennas and their Impact on Dual Emissive Lanthanide Complexes for Smart White LEDs and Molecular Thermometers”
4	Name of the Sponsoring Agency	SERB, DST, New Delhi
5.	Tenure of the Project	3 years
6	Tenure of the Assignment	3 years
7.	Job Description	Research on Luminescent lanthanide complex and study their photophysical properties. Fabrication of white LEDs, and study the Molecular Thermometers
8.	Consolidated monthly compensation / Fellowship	INR 31,000 (first two years) and INR 35,000 (3 <sup>rd</sup> year),
9.	Essential Qualifications and experience	M.Sc., in Chemistry/(specialization: Inorganic/Organic chemistry) with aggregate marks of 65% or 7.00 CGPA
10.	Desirable Qualifications / Exp.	Valid NET / GATE Score and Throughout First Class in academic career and Hands on experience in synthesis organic compounds and organometallic synthesis will be preferred. It will be good if one recommendation letter from any of your teachers may be sent to Dr. V. Sivakumar via email ( vsiva@nitrkl.ac.in)

11.	Accommodation	Bachelor / Married accommodation in the Institute may be provided subject to availability.
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For technical information on the project, the candidate may contact the Principal Investigator at the following address:

Name : Prof. Vaidyanathan Sivakumar (PI)

Address

: Department of Chemistry

Tel. No. National Institute of Technology Rourkela, Odisha 769 008.

Mobile : 0661-246 2654

E-mail : 9438503635

: [vsiva@nitrkl.ac.in](mailto:vsiva@nitrkl.ac.in)

Date and Time for **On-line** Interview: **12.01.2022, 11 am**

Place of Interview: **Online**

Eligible candidates may apply within **08.01.2022**. The candidates are required to send the complete filled up application form (Soft copy) to [vsiva@nitrkl.ac.in](mailto:vsiva@nitrkl.ac.in) with a CC to [sivakumar.vai@gmail.com](mailto:sivakumar.vai@gmail.com). 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 **on or before 08.01.2022 , 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. V. Sivakumar, PI with a request to give wide publicity to this advertisement.
- 3) Head of the Department, CY
- 4) Project file.