



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

**NITR/SR/2021/Advt-21ME058/L/069, dt. 07.02.2022**

Applications are invited on prescribed format (On-line) for the temporary post of "Junior Research Fellow (JRF)" for the Project entitled "Indigenous Development of a Novel Scheme for IRS System in Ocean-liners: Numerical and Experimental Investigations". Selected candidate may enroll in Ph.D. Programme in the **Department of Mechanical Engineering, National Institute of Technology Rourkela** based on Institute norms and regulations.

1.	Project Code	SR/21/ME/058
2.	Name of the Temporary Post	Junior Research Fellow - 01
3.	Name of the Research Project	Indigenous Development of a Novel Scheme for IRS System in Ocean-liners: Numerical and Experimental Investigations
4.	Name of the Sponsoring Agency	Science and Engineering Research Board (SERB)
5.	Tenure of the Project	3 years( from 24-Jan-22 to 23-Jan-25)
6.	Tenure of the Assignment	Three years (upon satisfactory performance)
7.	Job Description	To carry out the research work (Experimental and Numerical), in the field of fluid flow and heat transfer related to infrared suppression (IRS) system.  Scope to enroll as a Ph. D. Scholar in Department of Mechanical Engineering (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	M.Tech/M.S./M.E. or equivalent in Mechanical (Thermal) or equivalent specialization with minimum 60% marks. Or B. Tech /B.E. In Mechanical Engineering with Valid GATE score and CGPA above 8.0/10.
10.	Desirable Qualifications / Exp.	<ul style="list-style-type: none"><li>- Valid NET / GATE Score</li><li>- Expertise in ANSYS-Fluent</li><li>- Age below 28 is desirable</li></ul>
11.	Accommodation	Bachelor / Married accommodation in the Institute may be provided as per institute norms subject to availability.

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

Name : **Prof. Jnana Ranjan Senapati**  
Address : Department of Mechanical Engineering  
National Institute of Technology Rourkela, Odisha 769 008.  
Tel. No. : 0661-246-2509  
Mobile : +91- 9547147576  
E-mail : [senapatijr@nitrkl.ac.in](mailto:senapatijr@nitrkl.ac.in)

Date and Time for **On-line / Walk-in** Interview: **Will be notified later.**

Place of Interview: **Department of Mechanical Engineering, NIT Rourkela**  
**On Online mode (Microsoft Teams)**

Eligible candidates may apply within **24.02.2022, 2359 HRS**. The candidates are required to send the complete filled up application form (Soft copy) to [senapatijr@nitrkl.ac.in](mailto:senapatijr@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 ([senapatijr@nitrkl.ac.in](mailto:senapatijr@nitrkl.ac.in)) **on or before 24.02.2022, 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. Jnana Ranjan Senapati**, PI with a request to give wide publicity to this advertisement.
- 3) Prof. Suman Ghosh, co-PI with a request to give wide publicity to this advertisement.
- 4) Head of the Department, Mechanical Engineering (ME).
- 5) Project file.