



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

NITR/SR/2023/Advt-22ME090/L/013, dt.19.05.2023.

Applications are invited on prescribed format (On-line) for the temporary post of "**Junior Research Fellow (JRF)**" for the Project entitled "**Design of Micro cryogenic coolers for phased array receiver.**" 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.

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| 1. | Project Code | SR/22/ME/090 |
| 2. | Name of the Temporary Post | Junior Research Fellow - 01 |
| 3. | Name of the Research Project | "Design of Micro cryogenic coolers for phased array receiver." |
| 4. | Name of the Sponsoring Agency | ISRO, RESPOND Program |
| 5. | Tenure of the Project | 03 years (from 03/04/2023 to 02/04/2026) |
| 6. | Tenure of the Assignment | Initial for a period of one year (Extendable to three years upon satisfactory performance) |
| 7. | Job Description | To conduct the research work (Design and numerical analyses), in the field of miniaturized cryocooler design and analysis, & to visit ISRO for follow up. Scope to enroll as a Ph. D. Scholar in Department Mechanical Engineering (has to satisfy Institute / Department Eligibility Criteria). |
| 8. | Consolidated monthly compensation / Fellowship | INR 31,000/- (1 st & 2 nd year) and INR 35,000/- (3rd year) |
| 9. | Essential Qualifications and experience | M. Tech (Thermal / Cryogenics Engg.) or M.Sc. (low temperature physics) or B. Tech (with GATE)/ in Mechanical Engineering or related discipline with 65% marks or 7.0 CGPA, along with Institute norms. |
| 10. | Desirable Qualifications / Exp. | Valid GATE /NET Score |
| 11. | Age. | As per Institute Norms. |
| 12. | 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. Kishore Singh Patel**
Address : Department of Mechanical Engineering
National Institute of Technology Rourkela, Odisha 769 008.
Tel. No. : 0661-246 2500
Mobile : 9945676486
E-mail : patelks@nitrkl.ac.in

Date and Time for **On-line / Walk-in** Interview: **30.06.2023 and 01.07.2023, 10:00 AM**

Place of Interview: **Department of Mechanical Engineering, NIT Rourkela**

Eligible candidates may apply within **14.06.2023 (Wednesday), 23:59 HRS**. The candidates are required to send the complete filled up application form (Soft copy) to patelks@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 (patelks@nitrkl.ac.in) **on or before 14.06.2023 (Wednesday), 23:59 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.

*** Note: - The candidates who have applied against the institute Ph.D. advertisements (NITR/AC/RES/2023/M/0901, Date 15/05/2023) are automatically eligible for the current post, and no separate application is required.**

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

Copy to:

- 1) All Heads of the Departments, NIT Rourkela for publication on departmental noticeboards.
- 2) Prof. Kishore Singh Patel, PI with a request to give wide publicity to this advertisement.
- 3) Head of the Department, Mechanical Engineering.
- 4) Project file.