



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.

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.

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.