



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

**NITR/SR/2022/Advt-22/MN/038/L/073, dt.14.02.2023**

Applications are invited on prescribed format for the temporary post of "Junior Research Fellow (JRF)" for the Project entitled "DEVELOPMENT OF UAV-BASED NEAR REAL-TIME SURFACE FIRE DETECTION AND DELINEATION SYSTEM FOR COAL MINING AND FOREST REGIONS." Selected candidate may enroll in Ph.D. Programme in the **Department of Mining Engineering, National Institute of Technology Rourkela** based on Institute norms and regulations.

1.	Project Code	SR/22/MN/038
2.	Name of the Temporary Post	Junior Research Fellow - 01
3.	Name of the Research Project	"DEVELOPMENT OF UAV-BASED NEAR REAL-TIME SURFACE FIRE DETECTION AND DELINEATION SYSTEM FOR COAL MINING AND FOREST REGIONS".
4.	Name of the Sponsoring Agency	DST, New Delhi
5.	Tenure of the Project	3 years
6.	Tenure of the Assignment	Initial for a period of one year (Extendable to three years upon satisfactory performance)
7.	Job Description	Data collection, data analysis, report writing. Scope to enroll as a Ph. D. Scholar in Department of Mining Engineering
8.	Consolidated monthly compensation / Fellowship	INR 31,000 (1st & 2nd year) and INR 35,000 (3rd year)
9.	Essential Qualifications and experience	Graduate (B.E./B.Tech)/ Postgraduate (M.E./M.Tech.) Degree in Professional Course selected through a process described through any one of the following: a.) Scholars who are selected through National Eligibility Tests - CSIR-UGC NET including lectureship (Assistant Professorship) and GATE. b.) The selection process through National level examinations conducted by Central Government Departments and their Agencies and Institutions such as DST, DBT, DAE, DOS, DRDO, MHRD, ICAR., ICMR, IIT, IISc, IISER etc. First class all throughout the career is mandatory.
10.	Desirable Qualifications / Exp.	Experiences in Remote Sensing/GIS Software or Matlab or Python.

		Knowledge of Hardware related to Drone Operation
11.	Age	As per Institute/DST 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. Amit Kumar Gorai  
Address : Department of Mining Engineering  
National Institute of Technology Rourkela, Odisha 769 008.  
Tel. No. : 0661-246 2615  
Mobile : 7749006070  
E-mail : [goraia@nitrrkl.ac.in](mailto:goraia@nitrrkl.ac.in)

Date and Time for **On-line** Interview: 22<sup>nd</sup> March 2023 at 10:00 AM.

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

Eligible candidates may apply within **15th March 2023, 23:59 HRS**. The candidates are required to send the complete filled up application form (Soft copy) to [goraia@nitrrkl.ac.in](mailto:goraia@nitrrkl.ac.in). The application form is available in the following link: [http://nitrrkl.ac.in/oldwebsite/ Jobs Tenders/5ProjectFellowships/Doc/JRF%20LS-PND-64\(2\).pdf](http://nitrrkl.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 ([goraia@nitrrkl.ac.in](mailto:goraia@nitrrkl.ac.in)) **on or before 15th March 2023, 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 notice boards.
- 2) Prof. Amit Kumar Gorai, PI with a request to give wide publicity to this advertisement.
- 3) Head of the Department, Mining Engineering
- 4) Project file.