



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

NITR/SR/2021/Advt-20ME021/L/036 dt. 21.01.2021

Applications are invited on prescribed format (On-line) for the temporary post of "Junior Research Fellow (JRF)" for the Project entitled "Thermo-hydraulic characteristics of instant heater faucets: Performance rating and design optimization". Selected candidate may enroll in Ph.D. / M. Tech (R) Programme in the **Department of Mechanical Engineering, National Institute of Technology Rourkela** based on Institute norms and regulations.

1.	Project Code	SR/20/ME/021
2.	Name of the Temporary Post	Junior Research Fellow (JRF) - 01
3.	Name of the Research Project	Thermo-hydraulic characteristics of instant heater faucets: Performance rating and design optimization
4.	Name of the Sponsoring Agency	SERB, India
5.	Tenure of the Project	Three Years
6.	Tenure of the Assignment	Initial for a period of one year (extendable to three years upon satisfactory performance)
7.	Job Description	Research work; design of instant heater faucets (IHF); thermo-hydraulic analysis and design optimization; documentation of research work
8.	Consolidated Monthly Compensation / Fellowship	INR 31000/- per month (1st & 2nd year) INR 35000/- per month (3rd year)
9.	Essential Qualifications and Experience	B.E. / B.Tech. and M.E. / M.Tech. in Mechanical Engineering or any other equivalent degree(s) in other relevant disciplines
10.	Desirable Qualifications / Exp.	Valid NET / GATE score Knowledge of heat transfer, fluid mechanics, heat exchanger, engineering design & drawing, design optimization techniques (preferable Multi Objective Genetic Algorithm), coding (preferable C / C++ / FORTRAN / SciLab / Matlab)
11.	Accommodation	Bachelor 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 : Dr. Kaustav Chaudhury
Address : Department of Mechanical Engineering
National Institute of Technology Rourkela, Odisha 769 008.
Tel. No. : 0661-246 2535
Mobile : 85308 97399
E-mail : chaudhuryk@nitrkl.ac.in

Date and Time for **On-line** Interview: **March 05, 2021 at 1000 HRS**

Place of Interview: **Online (link will be sent before the interview)**

Eligible candidates may apply within **February 25, 2021, 2359 HRS**. The candidates are required to send the complete filled up application form (Soft copy) to the email id chaudhuryk@nitrkl.ac.in. The application form is available in the following link: [https://nitrkl.ac.in/oldwebsite/Jobs_Tenders/5ProjectFellowships/Doc/JRF%20LS-PND-64\(2\).pdf](https://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, **Prof. Kaustav Chaudhury (chaudhuryk@nitrkl.ac.in), on or before February 25, 2021, 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. Kaustav Chaudhury**, PI with a request to give wide publicity to this advertisement.
- 3) Head of the Department, Mechanical Engineering.
- 4) Project file.