



**NATIONAL INSTITUTE OF TECHNOLOGY, ROURKELA – 769 008(ODISHA)  
SPONSORED RESEARCH, INDUSTRIAL CONSULTANCY & CONTINUING EDUCATION**

Advt. No.: NITR/SR/17/ME/002/2019/364 (Extn.)

Date: 29.03.2019

Applications are invited on prescribed format for the temporary post of "**Senior Research Fellow** " for the IMPRINT Project (Project No. 6292) entitled "**Design and Development of Dynamic Mechanical Analyser**" jointly sanctioned by MHRD (Govt. of India) and SERB (DST, Ministry of Science and Technology, Govt. of India).

1.	Name of the Temporary Post	Senior Research Fellow (SRF) - 01
2.	Name of the Research Project	Design and Development of Dynamic Mechanical Analyser.
3.	Name of the Sponsoring Agency	MHRD (Govt. of India) and SERB (DST, Ministry of Science and Technology, Govt. of India)
4.	Tenure of the Project	03 Years
5.	Tenure of the Assignment	Extendable annually till completion of project, subject to satisfactory performance and availability of fund release by sponsoring agencies.
6.	Job Description	<ol style="list-style-type: none"> <li>1. Detailed analysis of Humidity Chamber               <ol style="list-style-type: none"> <li>a. humidification with variant thermodynamic conditions</li> <li>b. dehumidification with variant thermodynamic conditions</li> </ol> </li> <li>2. Heat Chamber               <ol style="list-style-type: none"> <li>a. Detailed thermal analysis and thermal system design of heat chamber and their subcomponents for different temperature and pressure ranges</li> </ol> </li> <li>3. Heat exchangers               <ol style="list-style-type: none"> <li>a. Detailed thermal analysis and thermal system design of Heat exchangers for Humidity Chamber</li> <li>b. Detailed thermal analysis and thermal system design of Heat exchangers for heat and humidity chambers</li> </ol> </li> <li>4. Work with other project staffs (RA – III, JRFs and Stipendiary project Engineer) in order to design control logics</li> </ol>
7.	Consolidated monthly compensation / Fellowship	Rs. 28,000/- per Month
8.	Essential Qualifications and experience	A Master's degree (M.E./M.Tech.) in Mechanical Engineering ( <b>with Thermal Engineering as specialization</b> ) with minimum CGPA of 6.5/10.0 (or 60% aggregate) OR qualification/experience for SRF will be as per the DST norms
9.	Desirable Qualifications/ Experiences	<ol style="list-style-type: none"> <li>1. M.Tech in Mechanical engineering with specialization of Thermal engineering with CGPA more than 8.0 in 10-point scale (or Equivalent)</li> <li>2. Excellent understanding of Finite element and Finite Volume methods using commercial packages such as ANSYS</li> <li>3. Excellent understanding or experience of refrigeration and air-conditioning</li> </ol>
10.	Accommodation	Bachelors Accommodation in the Institute may be provided subject to availability.

For technical information on the project, the candidate may contact the Co-Investigator or Principal Investigator at the following addresses:

Name : Prof. Tarapada Roy  
Address : Department of Mechanical Engineering,  
National Institute of Technology, Rourkela, Odisha 769 008.  
E-mail : [tarapada@nitrkl.ac.in](mailto:tarapada@nitrkl.ac.in)

Eligible candidates may appear in a **walk in interview on 05.04.2019 around 10:00 AM** at the **Department of Mechanical Engineering, National Institute of Technology, Rourkela 769 008.** The candidates are required to submit the complete filled up form (hard copy) at time of interview. 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. The candidates are also required to bring relevant documents mentioned in the application form (such as original all mark sheets and certificates, research papers (if any), experience certificate (if any) etc.)

Mere possession of essential/desirable qualifications and experience does not guarantee selection for the post. Candidates will be selected on merit and need of the project.

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

Copy to:

- 1) All Heads of the Departments, NIT, Rourkela for publication on Departmental Notice Boards.
- 2) Prof. T. Roy, Principal Investigator with a request to give wide publicity to advertisement.
- 3) Head of the Department, Mechanical Engineering.
- 4) Project file.