



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

NITR/SR/2022/Advt-22CR013/L/022, Dated: 01.06.2022.

Applications are invited on prescribed format (On-line/ Walk-in Interview) for the temporary post of " CRS Project Fellow (Junior)-II – 01" for the Project entitled "**Fundamental and technological aspects of transition element doped (Ba,Ca)(Zr,Ti)O₃ (BCZT) based semiconducting ferroelectrics for novel photo-ferro/piezocatalytic application**" Selected candidate may enroll in Ph.D. Programme in the **Department of Ceramic Engineering, National Institute of Technology Rourkela** based on Institute norms and regulations.

1.	Project Code	SR/22/CR/013
2.	Name of the temporary post & No.	CRS Project Fellow (Junior)-II – 01
3.	Name of the Research Project	Fundamental and technological aspects of transition element doped (Ba,Ca)(Zr,Ti)O₃ (BCZT) based semiconducting ferroelectrics for novel photo-ferro/piezocatalytic application
4.	Name of the sponsoring Agency	UGC-DAE-CRS
5.	Tenure of the project	3 years
6.	Tenure of the assignment	This project is sanctioned for one year but it may be extended on yearly basis subject to a total period of three years
7.	Job description (Give details)	The incumbent will be involved in developing semiconducting ferroelectric oxide in powder and granular form. Fabrication and characterization of ferroelectric oxide ceramic pebble by freeze granulation technique need to be studied. Densification, electrical property and catalytic property need to be studied. Knowledge in prior hands on experience in materials synthesis and characterization will be an added advantage.
8.	Consolidated monthly fellowship	i) Rs. 31,000/- + HRA for 1 st and 2 nd years ii) Rs.35,000/- +HRA for 3 rd year
9.	Essential Qualification & Experience	Master's degree in Engineering (Ceramics, Chemical, Metallurgy, Nanotechnology/Nanoscience, Materials Science, Mechanical) with minimum CGPA of 6.5/10.0 (or 60% aggregate) (not earlier than 3 years) M.Tech should be carried out with valid GATE score or at the time of application candidate should have valid GATE score OR Bachelor's degree in Engineering (Ceramics, Chemical, Metallurgy, Nanotechnology/Nanoscience, Materials Science, Chemical, Mechanical) with a minimum CGPA of 7/10.0 (or 65% aggregate) with valid GATE score. OR Master's degree in Science (Chemistry/Physics only) with Minimum CGPA of 6.5/10.0 (or 60% aggregate) in the Master's degree, first division in Bachelor's degree, and valid JEST/GATE/NET-JRF/Lectureship/UGC-CSIR NETJRF/Lectureship. Qualification/experience for JRF position will be as per UGC-

		DAE-CRS norms. Ph.D. registration of the student is mandatory under the supervision of the PI at the institute where PI's institute is affiliated
10.	Desirable Qualification/Experience	Qualification and experience same as above.
11.	Accommodation	Bachelor accommodation in the Institute will be provided and campus accommodation may be provided to married students subject to availability.

For technical information on the project, the candidate may contact the Principal Investigator at the following address:

Name : **Dr. Ranabrata Mazumder, Associate Professor**
Address: Department of Ceramic Engineering,
National Institute of Technology (NIT), Rourkela
Rourkela- 769008.
Telephone No: +91-661-246- 2208 (office); Mobile no. 9438391787
E-mail: ranabrata@nitrkl.ac.in; ranabratamazumder@gmail.com

Date and Time for walk-in Interview/ONLINE: 27.06.2022 at 10:00 AM.

Place of Interview: Department of Ceramic Engineering NIT Rourkela

Eligible candidates may apply within **22.06.2022, 23:59 HRS.** The candidates are required to send the complete filled up application form (Soft copy) to ranabrata@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 (ranabrata@nitrkl.ac.in) **on or before 22.06.2022-23:59 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 (SRICCE)

Copy to:

1. All Heads of the Departments, NIT, Rourkela for publication on Departmental Notice Boards.
2. Prof. Ranabrata Mazumder, Principal Investigator with a request to give wide publicity to advertisement.
3. Head of the Department, CR.
4. Project file.