



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

NITR/SR/2021/Advt-21CH016/L/021, dt. 10.08.2021

Applications are invited on prescribed format for the following assignment in a purely time bound research project to carry out research work, **experiments, analysis and computation** in the Department of Chemical Engineering.

1	Project Code	SR/21/CH/016
2	Name of the Temporary Post	Senior Research Fellow – 1 No.
3	Name of the Research Project	“Design of Soft-Multifunction sensor based on Electrochemical parameters”.
4	Name of the Sponsoring Agency	SERB, Department of Science and Technology (DST), Govt. of India
5	Tenure of the Project	03 Years
6	Tenure of the Assignment	03 years (After completion of the project may be absorbed as institute fellow)
7	Job Description	To carry out research work in the area of Electrochemical parameter estimation revealing reaction kinetics of an esterification reaction being carried out in a batch reactor, data analysis and data based concentration sensor design, and multifunction soft-sensor design (AI/ Fuzzy/any other machine learning based).
8	Consolidated monthly compensation / Fellowship	INR Rs. 35,000/ per month (1 st , 2 nd and 3 rd year)
9	Essential Qualifications and experience	A Master's degree (M.E./M.Tech.) in Engineering (Chemical/Mechanical/Electronics with minimum CGPA of 6.5/10.0 (or 60% aggregate) and Successful score in GATE exam (preferably) OR a Bachelor's degree (B.E./B.Tech.) in Engineering (Chemical/ Mechanical with a Minimum CGPA of 8.0/10.0 (or 75% aggregate) and Successful score in GATE exam (In that case he/she will be getting emoluments 31000/pm for first two years and 35000/pm for the last year).
10	Desirable Qualifications/ Experiences	Computational skill and (Higher qualification and other experience) Throughout First-class.
11	Accommodation	Bachelor accommodation in the Institute hostel will be provided subject to availability.

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

Name : **Prof. Madhusree Kundu**
Address : Department of Chemical Engineering NIT Rourkela,
Odisha 769 008.
Telephone No.: 0661-2462263,
Mobile No. : 8328829990
E-mail : mkundu@nitrkl.ac.in, madhusreekundu1@gmail.com

Date and Time for **On-line** Interview: **7th September, 2021 at 09:00 HRS**

Place of Interview: **Department of Chemical Engineering, NIT Rourkela.**

Eligible candidates may apply within **30.08.2021, 2359 HRS**. The candidates are required to send the complete filled up application form (Soft copy) to mkundu@nitrkl.ac.in, madhusreekundu1@gmail.com. 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.

Candidates will build a **Single PDF** file; it is to be sent to Principal Investigator (mkundu@nitrkl.ac.in, madhusreekundu1@gmail.com) on or before **30.08.2021, 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 wide circulation on their departmental notice boards.
- 2) Prof. Madhusree Kundu, PI, CH
- 3) Head of the Department, CH
- 4) Project file.