



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

NITR/SR/2021/Advt-21CH016/L/021(Re-advt.), dt. 07.10.2021.

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.

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| 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: **12.11.2021 at 09:00 HRS**

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

Eligible candidates may apply within **05.11.2021, 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 **05.11.2021, 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.

Candidates already applied before are requested to apply again against this advertisement.

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.