



NATIONAL INSTITUTE OF TECHNOLOGY ROURKELA

[An Institute of National Importance under Ministry of Education, Govt. of India]

Sector 1, Rourkela, Sundergarh Dist., Odisha 769 008

SPONSORED RESEARCH INDUSTRIAL CONSULTANCY CONTINUING EDUCATION

NITR / SR / 2026 / Advt.- 26CH024 / L / 054

dt. 02-Jul-2026 Ref: FTS 260629-1062

SR-R03

Advertisement for Recruitment of Project Position

Candidates who fulfill the below mentioned criteria may submit the application form before the last date. Engagement will be purely on temporary / contractual basis and co-terminus with the completion of the project. Candidates are advised to go through the advertisement details carefully before applying.

| | | | | |
|----|--|--|--|----------------------|
| 1. | Title of the Project: | Mechanistic Insights into Antifreeze-Mediated Ice Growth Inhibition and Development of Machine Learning Models for Antifreeze Activity Prediction. | | |
| 2. | Project Code, Dept. with Closing Date: | SR/26/CH/024 | 12-May-2029 | Chemical Engineering |
| 3. | Funding Agency Details: | ANRF | | |
| 4. | PI details: | Prof. Ravi Kumar Reddy Addula | addular@nitrkl.ac.in, 0661-246 | |
| | | 8919128302 | - | @ gmail.com |
| 5. | Details of the Post(s): | 6. Educational Qualification & Working Knowledge | | |
| | Junior Research Fellow (JRF) <i>[Name of the Post(s)]</i> | Essential Qualification (s): B.E/B.Tech or M.E/M.Tech with a first-class(or equivalent CGPA) in chemical engineering or allied engineering disciplines or M.Sc. in Chemistry, Physics, Biophysics, Bioinformatics, or Biochemistry from a recognized University or Institute with a valid GATE/CSIR-UGC NET(including lectureship) score. | | |
| | 01 (One) <i>[No. of Post(s)]</i> | 02 Year(s), 10 Month(s) <i>(Tenure of Post)</i> | If any candidate is found suitable without GATE/NET qualification, he/she will be considered for project associate-I with a fellowship of 30000 per month. | |
| | Year 1 & 2 | | | |
| | INR 37,000.00 /- per month (+) HRA @ NA % (if applicable) | | | |
| | Year 3 | | Desirable Qualification: Strong foundation in thermodynamics/statistical mechanics and good technical writing skills for research manuscripts and presentation of scientific data. | |
| | INR 42,000.00 /- per month (+) HRA @ NA % (if applicable) | | | |
| | Job Description: | | | |

The JRF is expected to carry out molecular dynamics simulations of ice growth in presence of different anti freeze proteins with varied activity. Analysis of the simulation data to infer meaningful results. Also JRF is expected to develop a machine learning model to predict the anti freeze activity given the properties of proteins. Further JRF is also expected to communicate the findings in the form of publications or conferences.

| | | | | |
|--------|--------------------|-------------|----------|------------------------------------|
| Online | Interview details: | 16-Jul-2026 | 10:00 AM | Department of Chemical Engineering |
|--------|--------------------|-------------|----------|------------------------------------|

Application link for eligible candidate(s): [NIT Rourkela Homepage](#) → [FACULTY & STAFF](#) → [SRICCE](#) → [Career](#) → [Notices](#)

The candidate(s) are required to send the complete filled and signed application (soft copy) with documents regarding educational qualification indicating percentage of marks / division (mark-sheets and / or certificates), research papers (if any), work experience certificate (if any) etc., This may be built as a single PDF file and sent by email with "Advertisement No." on the subject link to the above mentioned e-mail IDs. NO hard copies of application(s) are required to be sent to the Institute. Last date for submitting the Application: **14-Jul-2026**

The period of experience in a discipline / area of work, wherever prescribed, shall be counted after the date of acquiring the minimum prescribed educational qualifications for that position. 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. Selection / Joining will be cancelled in case of any suppression of information / document submitted.

NIT Rourkela reserves the right to fix higher criteria for short-listing of eligible candidates from those satisfying advertised qualification and requirement of the project post. Only short-listed candidates will be informed for Online interview. In case, any clarification is required on eligibility regarding the above post, the candidate may contact in the above mentioned details.

Age Guideline: The upper age limit for applying for the award of project position shall be **28** years, which is relaxed up to 5 years in the case of candidates belonging to Schedule Castes / Schedule Tribes / PWD and Female applicants whereas 3 years in the case of OBCs (Non-creamy layer candidates). Upper age limit shall be reckoned as on the last date of receipt of applications.

Any other terms & conditions governed as per guidelines issued by the funding agency for the engagement of above position as amended from time to time shall be in force towards this temporary recruitment.

Sd/-

Asst. / Dy. / Jt. Registrar (SR)

Copy to:

- PI: Prof. Ravi Kumar Reddy Addula, CH ➤ Chairman, DRC, Dept. of CH ➤ Advertisement File
- Head of the Department / Centres / Units (It is requested that the contents of the above advertisement be brought to the notice of the staff(s) / student(s) working in your Deptt. / Centre / Unit.)
- Dealing Seat (SR – Project Recruitment) → To publish advertisement at NITR website.