



# 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.- 26ME004 / L / 014

dt.21-Apr-2026 Ref: FTS 260420-3881

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:                  | Development of state-of-the-art In-silico model to achieve targeted drug delivery against viral respiratory disorders. |             |  |
| 2. | Project Code, Dept. with Closing Date: | SR-26-ME-004   | 25-Mar-2029 | Mechanical Engineering   |
| 3. | Funding Agency Details:                | ANRF -   |             |  |
| 4. | PI details:                            | Prof. Kishore Singh Patel<br>9945676486  | -           | patelks@nitrrkl.ac.in, 0661-246 2536<br>kishpatel.mech@gmail.com |
| 5. | Co-PI details:                         | Prof. Ravi Kant Avvari<br>9866859277   | -           | kantar@nitrrkl.ac.in, 0661-246<br>-@gmail.com                    |

|  |  |   |  |  |
|--|--|---|--|--|
| 6. Details of the Post(s):   |  | 7. Educational Qualification & Working Knowledge  |  |  |
| Junior Research Fellow (JRF)<br><i>[Name of the Post(s)]</i>               |  | <b>Essential Qualification (s):</b>   |  |  |
| 01 (One)<br><i>[No. of Post(s)]</i>  | 03 Year(s), 00 Month(s)<br><i>(Tenure of Post)</i> | First class M.E./M.Tech (Thermal/Aerospace/Chemical/Biotechnology and medical engineering or related branches) or First class in B.E./B.Tech (Mechanical/Aerospace/ Chemical/Biotechnology and medical engineering or other related branches) or first class M.Sc. (Maths/physics) selected through a process described through any one of the following:<br>(a) Scholars who are selected through National Eligibility Tests - CSIR-UGC NET including Lectureship (Assistant Professorship) and GATE.<br>(b) The selection process through National Eligibility Examinations conducted by Central Government Departments and their Agencies and Institutions such as DBT, DST, DAE, DOS, DRDO, MoE, ICAR, ICMR, IIT, IISc, IISER, NISER etc. |  |  |
| Year 1 & 2<br>INR 37,000.00 /- per month<br>(+) HRA @ NA % (if applicable) |  | <b>Experience / Software / Skillset &amp; Desirable Qualification:</b>  |  |  |
| Year 3<br>INR 42,000.00 /- per month<br>(+) HRA @ NA % (if applicable)     |  | (a) GATE/NET qualified<br>(b) Understanding of CFD, fluid mechanics, heat transfer or other related core subjects.<br>(c) Applied mathematics (numerical analysis, differential equations), AI/ML techniques, and scientific programming (e.g., Python, MATLAB)   |  |  |
| <b>Job Description:</b>  |  |   |  |  |

Research work will focus on computational fluid dynamics (CFD) analysis of fluid flow and heat transfer in the human respiratory system. The study will also incorporate AI/ML-based modeling in conjunction with high-fidelity CFD simulations of biofluid dynamics. Responsibilities include preparing technical reports and manuscripts, as well as presenting research findings in project meetings, workshops, and conferences, as required.

|        |                    |             |          |                                      |
|--------|--------------------|-------------|----------|--------------------------------------|
| Online | Interview details: | 28-May-2026 | 10:00 AM | Department of Mechanical 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: 24-May-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 & CO- PI: Prof. Kishore Singh Patel, ME & Prof. Ravi Kant Avvari, BM ➤ Chairman, DRC, Dept. of ME
  - 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) ➤ Advertisement File ➔ [To publish advertisement at NITR website.](#)