



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

Advt. No.: NITR/SR/19/CH-068/2020/L/455

Date: 19.03.2020

INVITATION FOR APPLICATIONS

Applications are invited on prescribed format for the following assignment in a purely time bound research project undertaken in the **Department of Chemical Engineering of NIT Rourkela**.

1	Name of the Temporary Post	Junior Research Fellow (JRF) No. of positions -01
2	Title of the Research Project	Lattice Boltzmann Method For Supersonic and Hypersonic Flows
3	Name of the Sponsoring Agency	ISRO-RESPOND
4	Tenure of the Project	02 years
5	Tenure of the Assignment	02 years (After completion of the project may be absorbed as INSTITUTE FELLOW)
6	Job Description	To develop Lattice Boltzmann method numerical solver in (in C++ or Fortran programming language) for high Mach number compressible flows.
7	Consolidated monthly compensation / Fellowship	INR 31,000/- per month
8	Essential Qualifications and experience	A Master's degree (M.E./M.Tech.) in Engineering (Mechanical/Chemical/ Computer/ Petroleum or allied branch of Engineering) with minimum CGPA of 6.5/10.0 (or 60% aggregate) OR a Bachelor's degree (B.E./B.Tech.) in Engineering (Chemical/ Mechanical/ Electronics/ Material Science/ Biotechnology or allied branch of Engg) with a Minimum CGPA of 8.0/10.0 (or 75% aggregate) OR Master's degree (M.Sc.) in Science (from above mentioned branches) with minimum CGPA of 6.5/10.0 (or 60% aggregate). Successful score in GATE exam is preferred.
9	Desirable Qualifications/ Experiences	Prior research experience or knowledge in the field of computational fluid dynamics (CFD), LBM, programming in C++/Fortran languages.
10	Accommodation	Bachelor accommodation in the hostel will be provided. Campus accommodation may be provided to married students subject to availability. (campus stay is compulsory)

For technical information on the project, the candidate may contact the Principal Investigator at the following address with **an updated Curriculum Vitae**:

Name : Prof. Krunal M. Gangawane (PI)
Designation : Assistant Professor
Address : CH-118, Department of Chemical Engineering,
National Institute of Technology, Rourkela, Odisha 769 008.
Tel. No. : 0661-2462253 (O), Mob: 9045732245
E-mail : gangawanek@nitrrkl.ac.in; krunalgangawane@gmail.com

Eligible candidates may apply in the prescribed format (available in the Institute Website) affixed with coloured photographs to be submitted in duplicate along with photo copies of relevant certificates, grade/ mark sheets, publications etc., to **Asst. Registrar, SRICCE, National Institute of Technology, Rourkela-769 008 on or before 30.04.2020**. The cover should be super- scribed clearly the post applied for & Name of the Project with code.

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 publication on Departmental Notice Boards.
- 2) Prof. Krunal M. Gangawane, PI with a request to give wide publicity to advertisement.
- 3) Head of the Department, CH.
- 4) Project file.

Advertised at: https://nitrrkl.ac.in/OldWebsite/Jobs_Tenders/5ProjectFellowships/Default.aspx