

Applications Invited for Post-Doctoral Research Fellowship

Position – Post-Doctoral Research Fellow in modelling of combustion & multiphase flow (under CLEANZ-CoE)

Type of Position – The position is for one year, with an extension subject to performance through a review process.

Fellowship – Consolidated pay Rs. 75,400 to Rs 79,300 per month (including HRA) based on post-doc experience

Experience –Ph.D. (at least provisional degree certificate awarded)/ preferably with some post-doc Experience

Eligibility –

Essential Qualifications:

- Ph.D. with B.Tech./M.Tech equivalent in Mechanical or Aerospace Engineering
- At least 3 publications in Scopus-indexed journals
- Should have experience in using both Ansys Fluent and OpenFOAM CFD solvers as reflected in published journal papers
- Should have experience in developing customized CFD solvers using OpenFOAM libraries
- The candidate should have good academic records throughout and good writing/communication skills.

Desirable Qualifications

- Candidates having experience in few of the following CFD modelling capabilities will be preferred:
 - Lagrangian particle tracking
 - Turbulent heat and mass transfer in thermal management applications
 - VOF model or one of its variants
 - Adsorption/desorption in porous medium

Job Description

- High fidelity CFD modelling of spray and combustion
- Developing OpenFOAM CFD solver with coupled Level Set VOF-LPT modelling
- Incorporating coal combustion kinetics in CFD solvers to simulate Coal Water Slurry combustion
- Report preparation, article writing and lab management.

Performance Matrices: IP generated, papers published, review performance

Expected Outcomes: Development of CFD Solver, IP, papers

Domain Areas of Interest Include –

1. Multiphase CFD solver development
2. Turbulent combustion modelling
3. Heat & Mass transfer in porous medium

How To Apply

- Candidates who are interested are requested to apply by filling this form: <https://forms.gle/XiqUcqaCL6oVQbiu7> before **5:00 pm, 10.09.2026**
- For more details, please visit <https://cleanz.coe.iith.ac.in/index.html>
- Candidates may contact Prof Raja Banerjee (rajabanerjee@mae.iith.ac.in) for more details.

Selection Procedure

- Candidates will be shortlisted based on their eligibility criteria, academic record, and relevant experience
- Only shortlisted candidates will be informed through email for the interview by the selection committee
- Merely meeting the criteria may not guarantee a call for an interview
- The position will be left vacant and a new advertisement with an extended date will be given if no suitable candidate is found.

Other criteria

- Accommodation will not be provided by CLEANZ
- Accommodation in IIT HYDERABAD will be subjected to availability (without HRA component as per norms).
- Please note that the position is on-site & within the IIT Hyderabad campus.