

Applications Invited for Post-Doctoral Research Fellowship (Rolling)

Apply by Filling this Form <https://forms.gle/SbwyQ1ztGnUrjidi9>

Position – Post-Doctoral Research Fellow

Topic – Gasification of High Ash Coal in Bubbling Fluidized Bed Gasifier: Process Optimization & Scale Up

Center – Centre of Clean Coal Energy & Net Zero (**CLEANZ**), a Centre of Excellence set up in collaboration with Coal India Ltd at IIT Hyderabad with a thrust in R&D and technology development.

Type of Position – The position is for 11 months, with possibility of extension subject to performance through a review process.

Fellowship – 58,000 to 67,000 (+27% HRA) based on prior experience (RA-I/II/III)

Experience – Fresh Ph.D. (Thesis submitted) or 1-2 years of post-doctoral/relevant industrial RnD experience.

Eligibility –

- Ph.D. in Chemical Engg/Mechanical Engineering or Ph.D. in Chemistry with relevant research/industrial experience related to experimental operation or numerical simulation of fluidized bed coal-gasification systems.
- Publication in Scopus indexed journals and/or international conferences of repute is highly preferred.
- The candidate should have good academic records throughout and good writing/communication skills.
- Candidates should not have published in Predatory Journals.

Job Description (initial 11 month period) –

- Design, procurement, installation, assembly and testing of a fluidized bed bench scale gasifier optimized for the gasification of low grade high ash coal.
- Development of Multi-phase reacting flow CFD modelling of the coal gasification process in ANSYS-FLUENT software suite for the reactor.
- Working both solo and with a team; mentoring of Masters and PhD scholar.
- Report preparation, article/patent writing and lab inventory management, implementation at TRL5/6 level.

Performance Matrices –

- IP generated, papers published, working solo and as a team member, project administration-execution-coordination, performance review.

Expected Outcomes – IP, publications, Scalable Technology.

Domain Areas of Interest Include –

1. Fluidized bed gasification process operation and modelling
2. Coal and carbon materials
3. Chemical Process design and development

How To Apply –

- Candidates who fulfill the eligibility criteria should apply through the form link given above.
- Contact Dr. Sayak Banerjee (sayakb@mae.iith.ac.in) for any questions.

Selection Procedure –

- Candidates will be shortlisted based on their eligibility criteria, academic record, and relevant experience
- Only shortlisted candidates will be intimated through email for the interview by the selection committee
- Merely meeting the criteria may not guarantee a call for an interview
- The advertisement will be open till a suitable candidate joins

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, full-time & within IIT Hyderabad campus.