

Applications Invited for Post-Doctoral Research Fellowship

Apply by Filling this Form <https://forms.gle/xpsr7YZA69HvTBhs5>

Position – Post-Doctoral Research Fellow (Gasification of low-grade coal using entrained bed and circulating fluidized bed (CFB) gasifier to produce synthesis gas: Process optimization and scale up) under CLEANZ CoE at IIT Hyderabad

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

Fellowship – Consolidated pay Rs. 70,680 to Rs 85,000 per month (including HRA) based on post-doc experience

Experience – Fresh Ph.D. (Thesis submitted)/ preferably with some post-doc 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 coal-gasification reactor system.
- 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. 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 by **5:00 pm, 15.06.2025**
- For more details, please visit <https://cleanz.coe.iith.ac.in/index.html>
- 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 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 IIT Hyderabad campus.