

## Applications Invited for Post-Doctoral Research Fellowship

**Position** – Post-Doctoral Research Fellow (MSME/REE Extraction & Recovery) 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. 70,680 to Rs 85,000 per month (including HRA) based on post-doc experience

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

**Eligibility** –

- Ph.D. with BE/BTech/Equivalent in Chemical Engg/Metallurgical Engg/Materials Engg/Materials science/Production Engg/Environmental Engg.

(or)

Ph.D. with MSc in chemistry/Environmental science/equivalent with relevant research/industrial experience related to metal extraction/recycling/recovery processes. The experience will be cross-checked from the submitted documents (publications, PhD synopsis, etc.).

- Minimum 1 Publication in a Scopus-indexed journal.
- The candidate should have good academic records throughout and good writing/communication skills.

Desirable Qualifications:

- Expertise on the extraction of rare earth, critical metals from secondary sources such as fly ash, coal, red mud, etc
- Hands-on experience in TGA/DSC, TEM, XRD, SEM-EDS, spectrometers, etc.

**Job Description** –

- To develop a definite research product/outcome with TRL 4/5 Level.
- Review of relevant literature and coordinate the work with the team.
- Experience in handling experimental and large-scale hydro & pyro metallurgical facilities.
- Report preparation, article writing, and lab management.

- Interaction with sponsored agencies, traveling for project execution (if needed), etc.

#### **Performance Matrices –**

- IP generated
- Different approaches to solve real problems of rare earth metal extraction through physical separation, hydrometallurgy, and pyrometallurgy.
- New knowledge/ technology solutions in metal extraction processes.

**Expected Outcomes –** IP, Scalable Technology, Research-oriented technical minds, new application areas of CPS, and start-ups.

#### **Domain Areas of Interest Include –**

1. Extractive metallurgy (Hydro, pyro & electrometallurgy)
2. Mineral Processing
3. Characterization of ores, minerals & materials
4. Processing Engineering-Design
5. Mineral, coal, ash & slag Characterization

#### **How To Apply –**

- Candidates who fulfill the eligibility criteria should apply through the link (<https://forms.gle/1QLFKnWzPEtgnRWRA>) on or before **07.08.2025**
- For more details, please visit <https://cleanz.coe.iith.ac.in/index.html>

#### **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 subject to availability (without HRA component as per norms).
- Please note that the position is on-site & within the IIT Hyderabad campus.

If you need more information about the position, feel free to contact Dr Ashok Kamaraj (email: [ashokk@msme.iith.ac.in](mailto:ashokk@msme.iith.ac.in))