



Special Admission Round for PhD Positions (Project based)

Department of Chemical Engineering, Indian Institute of Technology, Hyderabad is looking for young, bright and motivated candidates for Ph.D. program as a part of sponsored/grant-in-aid projects from various funding agencies as per the following details:

S. No.	Name of the PI (PhD Supervisor)	Title of the Project	Funding Agency	Fellowship (INR, per month)	Duration of Support*	Essential Qualification	Desirable Skills
1	Chandra Shekhar Sharma	Conversion of low-grade coal into graphitic carbon for Li-ion batteries: pouch cell demonstration	CLEANZ Centre of Excellence, Coal India Limited	As per MoE norms, 37,000 INR for First 2 years; 42,000 for next 2 years plus HRA (if applicable)	4 years	M.Tech. in Chemical/Material Sci. & Engg. (GATE score not mandatory) OR B.Tech. in Chemical/Material Sci. & Engg. with a valid GATE score OR B.Tech. from CFTIs (IITs, NITs, IISc, IISERs) in Chemical/Material Sci. & Engg. with a CGPA of 9.0 or higher. A valid GATE score is not required. OR M.Sc. in Physics/Chemistry with a valid GATE/NET score	Experience in synthesis of nanomaterials and their characterization, energy storage devices (Li-ion batteries and/or supercapacitors), working knowledge of electrochemistry
2	Debaprasad Shee	Production of commercial grade activated carbon materials from coal				M.Tech. in Chemical/Material Sci & Engg. (GATE score not mandatory)	

		slurry for targeted applications				OR B.Tech. in Chemical/Material Sci. & Engg. with valid GATE score	
3	Kishalay Mitra	Design and Operation of Robust Supply Chain For Coal and Associated Products Overcoming Sources of Uncertainty				M.Tech. in Chemical/Material Science/Polymer Engg (GATE score not mandatory) OR B.Tech. in Chemical/Material Science/Polymer Engg. with a valid GATE score OR B.Tech. from CFTIs (IITs, NITs, IISc, IISERs) in Chemical/Material Science/Polymer Engineering with a CGPA of 9.0 or higher. A valid GATE score is not required. OR M.Sc. in Mathematics/Physics with a valid GATE/NET score	
4	Narasimha M.	Beneficiation of low grade/rejected coals with techno-economical analysis				BE/BTech in Chemical Engg/Metallurgical Engg/Mining Engg/Civil Engg. OR MSc in Geology /Applied geology with relevant two years of research/industrial experience related to clean coal beneficiation and clean coal technology research Also, qualified in (a) GATE (valid score) b. CSIR-UGC NET OR	Having good knowledge of Mineral Processing & Coal Beneficiation, especially coal washeries or industrial R&D on related fields. Analytical skills in analytical instruments such as CHNS analyser, goniometer, ICP-OES, XRD, FTIR, SEM-EDX.
5	Narasimha M.	An integrated fine coal Beneficiation technology of low grade coals					

						M.Tech/ME/MS in Chemical Engg/Metallurgical Enn/Mining Engg/Civil Engg	
6	Narasimha M.	Multi-phase CFD modelling Large-Scale Dense Medium Cyclones	Weir Minerals		3 years	BE/BTech in Chemical Engg/Mechanical Engg or allied areas with at least two years of industry/research experience in the domain of Industrial/R&D CFD modelling	Good knowledge of Computational Fluid Dynamics, especially multi-phase flow modelling in process related flows and particulate flows
7	Narasimha M.	CFD modelling of large-scale hydrocyclones	Weir Minerals		3 years	OR M.Tech/ME/MS in Chemical Engg/Mechanical Engg or allied areas	Programming skills in C/C++/Python/MATLAB.
8	Lopamudra Giri	Sustained dual drug release of timolol and latanoprost for glaucoma treatment: In vivo study for cross linker free drug-polymer formulation for usage as eye drop	ICMR		2 years 7 months	M.Tech. in Biotechnology /Chemical/Biochemical Engg, Pharmaceutical Science OR M.Sc. in Biotechnology with valid GATE/NET score	Cell culture (mammalian cell culture preferable), bacterial culture, ex vivo experiments (handling goat cornea, goat intestine), in vivo experiments, drug delivery experiments, 3D printing, hydrogel handling, microscopy and imaging, experience in working in a research lab.

*Fellowship support for additional 1 year from the Institute may be available depending on the performance and Institute policy.

Important Dates:

1. Last date to submit the application is August 11, 2025.
2. For each project, candidate need to submit a separate application highlighting the project topic and PI.
3. Shortlisted candidates will be informed about the interview on or before August 15, 2025.
4. Tentative date of interview is August 22, 2025 (online mode).
5. Selected candidates need to report latest by September 1, 2025 for PhD admission.
6. **Application Form Link: <https://forms.gle/jx6FuN9UgAqsrtBJA>**