



BITS Pilani-IIT Roorkee Collaborative Ph.D. Position

Date: 08/07/2026

Applications are invited from interested and motivated candidates for a fully funded PhD position under the BITS Pilani-IIT Roorkee collaborative Ph.D. program to work in the following project entitled “**Identifying suitable promoters for gas hydrates-based pre-combustion CO₂ capture using machine learning integrated experimental framework**” under the supervision of **Prof. Arnab Dutta (Supervisor)** [URL: <https://www.bits-pilani.ac.in/hyderabad/arnab-dutta/>] and **Prof. Hari Prakash Veluswamy (Co-supervisor)** [URL: [https://ch.iitr.ac.in/~CH/Hari Prakash Veluswamy](https://ch.iitr.ac.in/~CH/Hari_Prakash_Veluswamy)]

The project will involve both computational and experimental work encompassing machine learning based model development, experimental validation, and reactor design for hydrate-based pre-combustion CO₂ capture.

Number of Vacancy	01
Essential Qualification	M.Tech. / M.E. / B.E. / B.Tech. in Chemical Engineering/ Environmental Engineering/ Energy Engineering or other allied disciplines from a recognized university, with minimum 60% aggregate marks or equivalent CGPA.
Desired Skills	Candidates should be interested in computational research encompassing Machine Learning, Process Simulation, Optimization, etc. Candidate should also be willing to learn experimental techniques.
Fellowship	₹ 37,000 + 30% HRA = ₹ 48100 per month Annual Contingency: ₹ 20,000/-
Age Limit	28 Yrs.

How to apply: Candidates meeting above-mentioned qualification should send their CV to **Prof. Arnab Dutta** [Email: arnabdutta@hyderabad.bits-pilani.ac.in] by **25th July, 2026**. Please note that only shortlisted candidates will be called for online interviews. The interview schedule will be sent to candidates via email. Selected candidates will be registered for the Ph.D. program subject to the fulfilment of the requirements of the Ph.D. qualification process as per academic guidelines of BITS Pilani.

Notes:

1. The student will be registered at BITS Pilani and, upon successful completion of all programme requirements, the PhD degree will be awarded by BITS Pilani.
2. The duration of the Ph.D. student's stay at IIT Roorkee will be mutually decided by the supervisor and Co-Supervisor based on the requirements of the research work. However, student is expected to spend at least 6 months, which could be extended up to 24 months at IIT Roorkee during the course of the PhD program.





Birla Institute of Technology & Science, Pilani
Hyderabad Campus

3. For any queries regarding the position, please feel free to email the supervisor (arnabdutta@hyderabad.bits-pilani.ac.in).
4. No TA/DA will be paid for attending the interview.

