



BITS Pilani
Hyderabad Campus



Admission for Joint PhD Program

Asian Smart Cities Research And Innovation Network (ASCRIN)

ASCRIN is an initiative between La Trobe University, Melbourne, Australia, and Birla Institute of Technology and Science (BITS) Pilani

Applications are invited for ASCRIN joint PhD program of BITS Pilani & La Trobe University

Project Title: Biomarker-based Monitoring of Biomethanation for Enhanced Process Control and Product Yield

Project Description: This project aims to monitor biomethanation through biomarker-based techniques to enable real-time insights into microbial community dynamics and metabolic activities. Moving beyond conventional kinetic models, the study will employ advanced tools like fluorescent and gas-based reporter systems, high-throughput sequencing, and substrate-specific labeling.

No. of Positions: One

Essential Qualification: M.Tech/ M.E/ M.Sc in Biotechnology/ Biochemistry/ Microbiology/ Molecular Biology/ Life Sciences/ Environmental Biotechnology/ Environmental Science from a recognized university, with $\geq 60\%$ aggregate marks or equivalent CGPA.

Desirable Qualification: Specialization and work experience in anaerobic digestion/ biomethanation/ microbiology/ biochemistry/ molecular biology.

Fellowship: @ BITS Pilani, Hyderabad Campus: INR 37,000 - 42,000 + 24% HRA per month.

@ La Trobe University: Full-fee research scholarship, covering tuition fee. Return economy airfare and health insurance.

How to Apply: Interested candidates can please apply with (i) cover letter, (ii) detailed resume with mobile number, email ID, postal address and contact details of two references as a single PDF via email to sangan@hyderabad.bits-pilani.ac.in with the subject line "**Application for ASCRIN PhD Position**". Short-listed candidates will be interviewed in the first week of August 2025.



Application Deadline: 03.08.2025

Project Investigators/ PhD Supervisors



Prof. P. Sankar Ganesh
BITS Pilani, Hyderabad Campus



Prof. Ashley Franks
La Trobe, Australia



A/Prof. Steve Petrovski
La Trobe, Australia