Birla Institute of Technology & Science, Pilani
Hyderabad Campus

Ph.D. POSITION

IN

ENVIRONMENTAL SCIENCE AND TECHNOLOGY

RESEARCH THEME

- ELECTROCHEMICAL ENHANCEMENT
- MICROBIAL DEGRADATION
- BIOTECHNOLOGY INNOVATION
- AI-ENABLED MONITORING

PROJECT TITLE

Voltage-Assisted Aerobic Composting (VAC) of Organic Waste with AI-Enabled Monitoring System

PROJECT OVERVIEW

This project introduces an intelligent monitoring and prediction system that combines sensor analytics, image-derived metrics, and machine learning to evaluate and regulate Voltage Assisted Composting (VAC) process.

VAC trials will employ embedded electrodes operating under controlled electro-oxidative conditions to accelerate the degradation of lignocellulose-rich organic wastes.

ELIGIBILITY

- M.Tech./M.E. in Biotechnology or Environmental Engineering or equivalent degree from a recognized university.
- Minimum 60% aggregate marks or an equivalent CGPA.
- Hands-on experience in aerobic composting and AI/ML.
- Basic knowledge of electrical engineering/ electrolysis.

FELLOWSHIP

INR 37,000
per month

NO. OF POSITIONS

One

HOW TO APPLY

Interested candidates can please apply with
(i) cover letter,
(ii) detailed resume with contact details of two references as a single PDF via email to **valorization@hyderabad.bits-pilani.ac.in**

Subject Line:
"Application for VAC PhD Position"

DEADLINE
20th June 2026

Project Investigators

Prof. P. Sankar Ganesh
Principal Investigator

Prof. Ankur Bhattacharjee
Co-Investigator

Prof. K Rajitha
Co-Investigator

Scan for more info

BITS Environmental Science & Technology (BEST) Lab
In the Process of Creating a Sustainable Tomorrow... Today