



BITS Pilani

Pilani | Dubai | Goa | Hyderabad | Mumbai
Research & Innovation

Date: 14th May 2026

PhD Application for Cross Disciplinary Research Funded Project, Dubai Campus

Applications are invited for ONE position of PhD Scholar on a project

Title: AI-Integrated Predictive Control Architecture for Sustainable Mitigation of Greenhouse Gas Emissions in Wastewater Treatment Systems

Supervisors: **Prof. R. Swarnalatha** (BITS Pilani, Dubai - Electrical and Electronics Engineering)
Prof. J. Angel Arul Jothi (BITS Pilani, Dubai - Computer Science)

The candidate will be also mentored by cross-disciplinary faculty **Prof. Murchana Changmai** (BITS Pilani, Dubai-Chemical Engineering), **Prof. Sankar Ganesh P,** (BITS Pilani, Hyderabad- Biological Sciences) and **Prof. Inayat Abrar,** College of Engineering, University of Sharjah, UAE

Deadline: 10th June 2026; Expected Date of Joining: Immediate

Deserving candidates can check the eligibility criteria and qualification process of the PhD program of BITS Pilani (<http://www.bitsadmission.com/phmain.aspx>)

Scope of work:

- Data Acquisition, Process Monitoring, and System Modeling of Waste Water Treatment Plant (WWTP)
- AI-Based Prediction, Detection, and Decision Support
- Validation and Performance Assessment

Essential Qualification

- M.E./M.Tech. or an equivalent Degree (a minimum of 60% aggregate)
- B.E./ Four year B.Sc /B.S (honors with research) or an equivalent degree (a minimum of 60% aggregate)

Desirable Qualification

- Any qualifying degree in Instrumentation/ Electrical/ Environmental/Chemical Engineering
- Strong background in Process Control & modelling of WWTP
- Strong foundation in Artificial Intelligence/Machine Learning with proficiency in Python and ML frameworks.
- Prior Research Experience in any of the above mentioned

Fellowship: 4000 AED per month

Duration: As per BITS Pilani norms (<https://admissions.bits-pilani.ac.in/>).

Place of work: BITS Pilani, Dubai Campus, Dubai, UAE

Additional Benefit: Concession in Hostel Fees

Application process: Please apply with **CV and Cover letter** (showing alignment and justification with the roles/responsibilities/requirements) using this form

- **Google Form Link :** <https://forms.gle/3wuh2tEGRPAgQe1s8>
- **Deadline: 10th June, 2026**

Preliminary shortlisting will be based on the applicant's resume and a telephonic/audio-visual interview, to be conducted within one week from the last date of application. Shortlisted candidates will be informed via email regarding the interview details. The interview may be conducted either in person or online. No TA/DA will be provided for candidates attending the interview in person. For further details, please contact:

Prof. R Swarnalatha

Department of Electrical & Electronics Engineering, Dubai Campus

swarnalatha@dubai.bits-pilani.ac.in