

PhD Admission Brochure

Greenko School of Sustainability

January 2026

ABOUT THE SCHOOL

Greenko Group and IIT Hyderabad have collaborated to establish the **Greenko School of Sustainability** at the Indian Institute of Technology Hyderabad in 2022. The School of Sustainability is designed to shape a world that harmonizes with nature and empowers future generations toward a more sustainable tomorrow. The objectives of the school are to conduct research and development, education programs. The Greenko School of Sustainability is structured as a cross disciplinary center that manages seamless participation and knowledge flow from all existing departments and centers of IIT Hyderabad. The Greenko School of Sustainability (GSS) is currently offering three masters' programs: (i) Sustainable Engineering, (ii) Energy Science & Technology (iii) E-waste Resource Engineering and Management.

PHD PROGRAM

The Greenko School is inviting applications from highly motivated and enthusiastic students interested in working on the identified interdisciplinary thrust areas of the school.

RESEARCH THRUST AREAS FOR THIS ROUND OF ADMISSIONS

The school has the following thrust areas:

- (i) Climate Change Mitigation
- (ii) Energy Transition & Industrial Transformation
- (iii) Circular & Regenerative Economy
- (iv) AI & Space Technology for Climate Change mitigation
- (v) Green Chemistry & Industrial Processes
- (vi) Recycling, Reuse, and Repurposing
- (vii) Sustainable Manufacturing and Decarbonization
- (viii) Sustainable Infrastructure
- (ix) Sustainable Supply Chain Modelling and Management

Contact Us: Greenko School of Sustainability, Indian Institute of Technology Hyderabad, Website: <https://gss.iith.ac.in>
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ADMISSIONS

The school is offering Fellowships in TWO categories: Project funded (see the table) and MoE funded. Fellowship amount is as per GoI Norms in both categories.

ELIGIBILITY

- All candidates should have cleared national eligibility tests UGC NET/GATE/CEED/CSIR, etc. However, need not have a validity at the time of application.
- Candidates with First Class degrees in their respective bachelor's and master's programs can apply.
- For MoE fellowships, candidates shall hold M.Tech/M.Sc/M.Arch/M.Des in any discipline aligned with the research thrust areas of the school.
- For project-based fellowships, the specific eligibility criteria and essential/desirable requirements for some project are given in the table.

*External PhD Program:

- Candidates with at least 2 years of relevant experience with an NOC from their organization are eligible for admission as External Ph.D.
- *All other institute's admission guidelines are applicable.

HOW TO APPLY

Applications are accepted online

Create a login on IITH webpage at:

<https://www.iith.ac.in/phdadmissions/>

For more info, visit - <https://www.iith.ac.in>

SELECTION CRITERIA

- The selection is through a written test and/or Interview.
- Selected applicants will be communicated through email.
- Applicants should ensure the accuracy of the email address provided and check their email regularly for updates.

RESEARCH PROJECTS

Sr. No.	Title of the project	Eligibility
1	Experimental and CFD Modelling study of low grade coal gasification	Essential: 1. B. Tech and M. Tech in Mechanical Engineering/ Chemical Engineering/ Thermal Engineering Desirable: M Tech in the fields of experimental or numerical study of chemical reactors/gasification or combustion technology/ reacting flow systems.
2	Digital Twin Framework for Enhanced Dam Management and Monitoring	1. Minimum Qualifications: Master's Degree (M.Tech/M.E./M.Des./M.Sc./M.Phil. or equivalent) in one or more of the following disciplines from a recognized institute/university with at least 60% marks or equivalent CGPA: Civil Engineering (Hydraulic, Structural, Geotechnical, or Water Resources Engineering); Environmental Engineering; Computer Science and Engineering; Artificial Intelligence / Machine Learning / Data Science Geoinformatics / Remote Sensing / GIS; Architecture / Urban & Regional Planning (for spatial and system modeling) 2. Desirable Skills and Experience Digital Twin development, BIM, or IoT-based monitoring systems; Computational modeling (FEA, CFD, or simulation tools; Data acquisition, sensor integration, or SCADA systems; Machine Learning / Predictive Analytics using Python, TensorFlow, or MATLAB; GIS-based analysis and 3D visualization (ArcGIS, QGIS, BlenderGIS, Rhino, or Unity); Knowledge of hydrological and structural monitoring systems for dams or infrastructure; Cloud computing, API integration, or database management Research publications or project experience in related domains preferred.
3	Biomass valorization: Developing novel methods for pretreatment and biopolymer (bioplastic) synthesis	Essential & minimum qualifications: The candidate interested in applying for this project must satisfy both Criterion A and Criterion B. Criterion A: First Class/Div. in M.Tech./M.E. in any of the following engineering disciplines: Civil (with specialization in Environmental Engineering) Engineering, Environmental Engineering, Chemical Engineering, Material Science & Material Engineering; OR, First Class in M.Sc. in Chemistry or Environmental Science. Criterion B: First Class/Div. in B.Tech./B.E./BSc