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 inter-disciplinary thrust areas of the school.

RESEARCH THRUST AREAS FOR THIS ROUND OF ADMISSIONS

The school has the following six 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

Contact Us:
Greenko School of Sustainability
Indian Institute of Technology Hyderabad
Email: dpgc@gss.iith.ac.in
office@gss.iith.ac.in
Website: https://gss.iith.ac.in/

Admission Brochure

Ph.D. in Sustainable Engineering

July 2024 Session

Greenko School of Sustainability
Indian Institute of Technology Hyderabad

PHD PROGRAM

The Greenko School of Sustainability is inviting applications from highly motivated and enthusiastic students interested in working on the identified inter-disciplinary thrust areas of the school (for details, see overleaf).

ADMISSIONS

The school is offering Fellowships in TWO categories:

1. **Project Fellowships: 6 Nos. (INR 75,000/ month up to 4 years. For details, see next page)**
2. ***MoE Fellowships: 4 Nos. (As per GoI Norms for 5 years)**

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 each project are given in the next page.

***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.

SELECTION CRITERIA

The selection is through a written test and/or Interview.

Selected applicants will be communicated through emails. The applicants should ensure the accuracy of the email address provided and check their emails regularly for updates.

HOW TO APPLY

Applications are accepted online • Create a login on IITH webpage at: http://www.iith.ac.in/phdadmissions/ • For more info, visit http://www.iith.ac.in/

RESEARCH PROJECTS

Title of the Project	Eligibility
Development and Performance Evaluation of an Direct Injection Ammonia based Dual Fuel CI engine	Essential: 1.BTech/BE in Mechcal/Aerospace/Production Engineering 2.MTech/ME in Mechanical Engineering with specialization in Thermo-fluids Desirable: Hands-on experience in IC engine experiments
Development and Realization of High Energy Lithium-based Rechargeable Batteries for Electric Vehicles	M.Sc. in Chemistry/ M.Tech in NanoTechnology-Material Science, with GATE/ CSIR/UGC(JRF/NET).
Unassisted Solar Seawater Splitting PEC Cells for Sustainable Hydrogen Generation	MSc degree in Chemistry/Nano or M.Tech in Energy/Environment/Chemical/Civil Engineering
Electric Swing Adsorption for Carbon Capture And Lithium Recovery	At least one (Bachelors or Masters) Degrees in Materials Science, Mechanical Engineering or Chemical Engineering. Desirable qualification: Knowledge in electrochemistry.
Development of Low-Cost Organic Porous Solids for CO2 Capture	M.Sc. degree in Chemistry
Biomass valorization: Developing novel methods for pretreatment and biopolymer (bioplastic) synthesis	Criterion A: M.Tech./M.E. in any of the following engineering disciplines: Civil (specialization in Environmental Engineering) Engineering, Environmental Engineering, Chemical Engineering, Material Science & Material Engineering; OR, First Class in M.Sc. in Chemistry. Criterion B: B.Tech./B.E. in any of the following engineering disciplines: Civil Engineering, Environmental Engineering, Chemical Engineering, Material Science & Material Engineering; OR, First Class in B.Sc. in Chemistry. (Shall meeting Criteria A&B).